A Complete Bibliography of *ACM Transactions on Database Systems*

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References

Yao:1977:ABA

[1] S. B. Yao. Approximating block accesses in database organization. *Communications of the ACM*, 20(4):260–261, April 1977. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). Also published in [25].

Hsiao:1976:ATD

[2] David K. Hsiao. ACM Transactions on Database Systems: aim and scope. *ACM Transactions on Database Systems*, 1(1):1–2, 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-1/p1-hsiao/p1-hsiao.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-1/p1-hsiao/.

Chen:1976:ERM

[3] Peter Pin-Shan S. Chen. The entity-relationship model: Toward a unified view of data. *ACM Transactions on Database Systems*, 1(1):9–36, March 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.

org/pubs/articles/journals/tods/1976-1-1/p9-chen/p9-chen.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-1/p9-chen/. Reprinted in [1109].

Bayer:1976:EST

[4] R. Bayer and J. K. Metzger. On the encipherment of search trees and random access files. *ACM Transactions on Database Systems*, 1(1):37–52, March 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-1/p37-bayer/p37-bayer.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-1/p37-bayer/. Also published in [1104, p. 508–510].

Lin:1976:DRA

[5] Chyuan Shiun Lin, Diane C. P. Smith, and John Miles Smith. The design of a rotating associative memory for relational database applications. *ACM Transactions on Database Systems*, 1 (1):53–65, 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-1/p53-lin/p53-lin.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-1/p53-lin/.

Mahmoud:1976:OAR

[6] Samy Mahmoud and J. S. Riordon. Optimal allocation of resources in distributed information networks. *ACM Transactions on Database Systems*, 1(1):66–78, March 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-1/p66-mahmoud/p66-mahmoud.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-1/p66-mahmoud/.

Stemple:1976:DMF

[7] David W. Stemple. A database management facility for automatic generation of database managers. *ACM Transactions on Database Systems*, 1(1):79–94, March 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-1/p79-stemple/p79-stemple.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-1/p79-stemple/. Also published in [1104, p. 252].

Astrahan:1976:SRR

[8] M. M. Astrahan, M. W. Blasgen, D. D. Chamberlin, K. P. Eswaran, J. N. Gray, P. P. Griffiths, W. F. King, R. A. Lorie, P. R. McJones, J. W. Mehl, G. R. Putzolu, I. L. Traiger, B. W. Wade, and V. Watson. System R: a relational approach to database management. *ACM Transactions on Database Systems*, 1(2):97–137, June 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-2/p97-astrahan/p97-astrahan.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-2/p97-astrahan/. Also published in/as: IBM, San Jose, Research Report. No. RJ-1738, Feb. 1976. Reprinted in [1109].

Navathe:1976:RLD

[9] Shamkant B. Navathe and James P. Fry. Restructuring for large data bases: Three levels of abstraction. *ACM Transactions on Database Systems*, 1 (2):138–158, March 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-2/p138-navathe/p138-navathe.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-2/p138-navathe/. Also published in [1104, p. 174].

Yao:1976:DDR

[10] S. B. Yao, K. S. Das, and T. J. Teorey. A dynamic database reorganization algorithm. *ACM Transactions on Database Systems*, 1(2):159–174, June 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-2/p159-yao/p159-yao.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-2/p159-yao/. Also published in/as: Purdue Un., TR-168, Nov. 1975.

Burkhard:1976:HTA

[11] Walter A. Burkhard. Hashing and trie algorithms for partial-match retrieval. *ACM Transactions on Database Systems*, 1(2):175–187, June 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-2/p175-burkhard/p175-burkhard.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-2/p175-burkhard/. Also published in/as: UCSD, Appl. Physics and Inf. Sc, CS TR.2, Jun. 1975.

Stonebraker:1976:DII

[12] Michael Stonebraker, Eugene Wong, Peter Kreps, and Gerald Held. The design and implementation of INGRES. *ACM Transactions on Database Systems*, 1(3):189–222, September 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-3/p189-stonebraker/p189-stonebraker.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-3/p189-stonebraker/. Reprinted in [1109]. Also published in/as: UCB, Elec. Res. Lab, Memo No. ERL-M577, Jan. 1976.

Wong:1976:DSQ

[13] Eugene Wong and Karel Youssefi. Decomposition — A strategy for query processing. *ACM Transactions on Database Systems*, 1(3):223–241, September 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-3/p223-wong/p223-wong.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-3/p223-wong/. Also published in/as: UCB, Elec. Res. Lab, Memo No. ERL-574, Jan. 1976.

Griffiths:1976:AMR

[14] Patricia P. Griffiths and Bradford W. Wade. An authorization mechanism for a relational database system. *ACM Transactions on Database Systems*, 1(3):242–255, September 1976. CODEN ATDSD3. ISSN

0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-3/p242-griffiths/p242-griffiths.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-3/p242-griffiths/.

Severance:1976:DFT

[15] Dennis G. Severance and Guy M. Lohman. Differential files: Their application to the maintenance of large databases. *ACM Transactions on Database Systems*, 1(3):256–267, September 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-3/p256-severance/p256-severance.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-3/p256-severance/.

Shneiderman:1976:BSS

[16] Ben Shneiderman and Victor Goodman. Batched searching of sequential and tree structured files. *ACM Transactions on Database Systems*, 1 (3):268–275, September 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-3/p268-shneiderman/p268-shneiderman.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-3/p268-shneiderman/. See comments in [251]. Also published in/as: Indiana Un., CSD Tech. Ref. 0132.

Bernstein:1976:STN

[17] Philip A. Bernstein. Synthesizing third normal form relations from functional dependencies. *ACM Transactions on Database Systems*, 1(4):277–298, December 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-4/p277-bernstein/p277-bernstein.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-4/p277-bernstein/.

Liu:1976:APS

[18] Jane W. S. Liu. Algorithms for parsing search queries in systems with inverted file organization. *ACM Transactions on Database Systems*, 1(4):299–316, 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-4/p299-liu/p299-liu.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-4/p299-liu/.

Sherman:1976:PDM

[19] Stephen W. Sherman and Richard S. Brice. Performance of a database manager in a virtual memory system. *ACM Transactions on Database Systems*, 1(4):317–343, December 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-4/p317-sherman/p317-sherman.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-4/p317-sherman/.

Donovan:1976:DSA

[20] John J. Donovan. Database system approach to management deci-

sion support. *ACM Transactions on Database Systems*, 1(4):344–369, December 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-4/p344-donovan/p344-donovan.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-4/p344-donovan/.

McGee:1976:UCD

[21] William C. McGee. On user criteria for data model evaluation. *ACM Transactions on Database Systems*, 1(4):370–387, 1976. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1976-1-4/p370-mcgee/p370-mcgee.pdf; http://www.acm.org/pubs/citations/journals/tods/1976-1-4/p370-mcgee/.

Kam:1977:MSD

[22] John B. Kam and Jeffrey D. Ullman. A model of statistical databases and their security. *ACM Transactions on Database Systems*, 2(1):1–10, March 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-1/p1-kam/p1-kam.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-1/p1-kam/.

Bayer:1977:PBT

[23] Rudolf Bayer and Karl Unterauer. Prefix B-trees. *ACM Transactions on Database Systems*, 2(1):11–26, March 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-1/p11-bayer/p11-bayer.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-1/p11-bayer/. Also published in/as: IBM Yorktwon, Technical Report RJ1796, Jun. 1976.

Schkolnick:1977:CAH

[24] Mario Schkolnick. A clustering algorithm for hierarchical structures. *ACM Transactions on Database Systems*, 2(1):27–44, May 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Yao:1977:ABM

[25] S. B. Yao. An attribute based model for database access cost analysis. *ACM Transactions on Database Systems*, 2(1):45–67, March 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-1/p45-yao/p45-yao.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-1/p45-yao/. Also published in [1].

Anderson:1977:MCS

[26] Henry D. Anderson and P. Bruce Berra. Minimum cost selection of secondary indexes for formatted files. *ACM Transactions on Database Systems*, 2(1):68–90, March 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-1/p68-anderson/p68-anderson.pdf; http://www.acm.org/pubs/

citations/journals/tods/1977-2-1/p68-anderson/.

Lorie:1977:PIL

[27] Raymond A. Lorie. Physical integrity in a large segmented database. *ACM Transactions on Database Systems*, 2 (1):91–104, March 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-1/p91-lorie/p91-lorie.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-1/p91-lorie/.

Smith:1977:DAA

[28] John Miles Smith and Diane C. P. Smith. Database abstractions: Aggregation and generalization. *ACM Transactions on Database Systems*, 2(2):105–133, June 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-2/p105-smith/p105-smith.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-2/p105-smith/.

Shu:1977:EDE

[29] N. C. Shu, B. C. Housel, R. W. Taylor, S. P. Ghosh, and V. Y. Lum. EXPRESS: a data EXtraction, Processing, and Restructuring System. *ACM Transactions on Database Systems*, 2(2):134–174, June 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-2/p134-shu/p134-shu.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-2/p134-shu/.

Ozkarahan:1977:PER

[30] E. A. Ozkarahan, S. A. Schuster, and K. C. Sevcik. Performance evaluation of a relational associative processor. *ACM Transactions on Database Systems*, 2(2):175–195, June 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-2/p175-ozkarahan/p175-ozkarahan.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-2/p175-ozkarahan/.

Brice:1977:EPD

[31] Richard S. Brice and Stephen W. Sherman. An extension on the performance of a database manager in a virtual memory system using partially locked virtual buffers. *ACM Transactions on Database Systems*, 2(2):196–207, June 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-2/p196-brice/p196-brice.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-2/p196-brice/.

Lohman:1977:OPB

[32] Guy M. Lohman and John A. Muckstadt. Optimal policy for batch operations: Backup, checkpointing, reorganization, and updating. *ACM Transactions on Database Systems*, 2(3):209–222, September 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (elec-

tronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-3/p209-lohman/p209-lohman.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-3/p209-lohman/.

Wong:1977:IHT

[33] Kai C. Wong and Murray Edelberg. Interval hierarchies and their application to predicate files. *ACM Transactions on Database Systems*, 2(3):223–232, September 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-3/p223-wong/p223-wong.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-3/p223-wong/.

Ries:1977:ELG

[34] Daniel R. Ries and Michael Stonebraker. Effects of locking granularity in a database management system. *ACM Transactions on Database Systems*, 2(3):233–246, September 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-3/p233-ries/p233-ries.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-3/p233-ries/.

Schmidt:1977:SHL

[35] Joachim W. Schmidt. Some high level language constructs for data of type relation. *ACM Transactions on Database Systems*, 2(3):247–261, September 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-3/p247-schmidt/p247-schmidt.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-3/p247-schmidt/.

Fagin:1977:MVD

[36] Ronald Fagin. Multi-valued dependencies and a new normal form for relational databases. *ACM Transactions on Database Systems*, 2(3):262–278, September 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-3/p262-fagin/p262-fagin.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-3/p262-fagin/.

March:1977:DER

[37] Salvatore T. March and Dennis G. Severance. The determination of efficient record segmentations and blocking factors for shared data files. *ACM Transactions on Database Systems*, 2(3):279–296, September 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-3/p279-march/p279-march.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-3/p279-march/.

Ozkarahan:1977:AAF

[38] E. A. Ozkarahan and K. C. Sevcik. Analysis of architectural features for enhancing the performance of a database machine. *ACM Transactions on Database Systems*, 2(4):297–316,

December 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-4/p297-ozkarahan/p297-ozkarahan.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-4/p297-ozkarahan/.

Rissanen:1977:ICR

[39] Jorma Rissanen. Independent components of relations. *ACM Transactions on Database Systems*, 2(4):317–325, December 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-4/p317-rissanen/p317-rissanen.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-4/p317-rissanen/.

Bonczek:1977:TGB

[40] Robert H. Bonczek, James I. Cash, and Andrew B. Whinston. A transformational grammar-based query processor for access control in a planning system. *ACM Transactions on Database Systems*, 2(4):326–338, December 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-4/p326-bonczek/p326-bonczek.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-4/p326-bonczek/.

Lang:1977:DBP

[41] Tomás Lang, Christopher Wood, and Eduardo B. Fernández. Database buffer paging in virtual storage systems. *ACM Transactions on Database Systems*, 2(4):339–351, December 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-4/p339-lang/p339-lang.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-4/p339-lang/.

Thomas:1977:VAP

[42] D. A. Thomas, B. Pagurek, and R. J. Buhr. Validation algorithms for pointer values in DBTG databases. *ACM Transactions on Database Systems*, 2(4):352–369, December 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-4/p352-thomas/p352-thomas.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-4/p352-thomas/.

Claybrook:1977:FDM

[43] Billy G. Claybrook. A facility for defining and manipulating generalized data structures. *ACM Transactions on Database Systems*, 2(4):370–406, December 1977. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1977-2-4/p370-claybrook/p370-claybrook.pdf; http://www.acm.org/pubs/citations/journals/tods/1977-2-4/p370-claybrook/.

Minker:1978:SSS

[44] Jack Minker. Search strategy and selection function for an inferential relational system. *ACM Transac-*

tions on Database Systems, 3(1):1–31, March 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-1/p1-minker/p1-minker.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-1/p1-minker/.

Tuel:1978:ORP

[45] William G. Tuel, Jr. Optimum reorganization points for linearly growing files. *ACM Transactions on Database Systems*, 3(1):32–40, March 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-1/p32-tuel/p32-tuel.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-1/p32-tuel/.

Yu:1978:END

[46] C. T. Yu, W. S. Luk, and M. K. Siu. On the estimation of the number of desired records with respect to a given query. *ACM Transactions on Database Systems*, 3(1):41–56, March 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-1/p41-yu/p41-yu.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-1/p41-yu/.

Su:1978:CCS

[47] Stanley Y. W. Su and Ahmed Emam. CASDAL: *CAS*SM's *DA*ta *L*anguage. *ACM Transactions on Database Systems*, 3(1):57–91, March 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1978-3-1/p57-su/.

Chin:1978:SSD

[48] Francis Y. Chin. Security in statistical databases for queries with small counts. *ACM Transactions on Database Systems*, 3(1):92–104, March 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-1/p92-chin/p92-chin.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-1/p92-chin/.

Hendrix:1978:DNL

[49] Gary G. Hendrix, Earl D. Sacerdoti, Daniel Sagalowicz, and Jonathan Slocum. Developing a natural language interface to complex data. *ACM Transactions on Database Systems*, 3(2):105–147, June 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-2/p105-hendrix/p105-hendrix.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-2/p105-hendrix/.

Langdon:1978:NAP

[50] Glen G. Langdon, Jr. A note on associative processors for data management. *ACM Transactions on Database Systems*, 3(2):148–158, June 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.

acm.org/pubs/articles/journals/tods/1978-3-2/p148-langdon/p148-langdon.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-2/p148-langdon/.

Kluge:1978:DFM

[51] Werner E. Kluge. Data file management in shift-register memories. *ACM Transactions on Database Systems*, 3 (2):159–177, June 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-2/p159-kluge/p159-kluge.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-2/p159-kluge/.

Rosenkrantz:1978:SLC

[52] David J. Rosenkrantz, Richard E. Stearns, and Philip M. Lewis, II. System level concurrency control for distributed database systems. *ACM Transactions on Database Systems*, 3 (2):178–198, June 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-2/p178-rosenkrantz/p178-rosenkrantz.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-2/p178-rosenkrantz/.

Delobel:1978:NHD

[53] Claude Delobel. Normalization and hierarchical dependencies in the relational data model. *ACM Transactions on Database Systems*, 3(3):201–222, September 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-3/p201-delobel/p201-delobel.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-3/p201-delobel/.

Smith:1978:SPD

[54] Alan Jay Smith. Sequentiality and prefetching in database systems. *ACM Transactions on Database Systems*, 3(3):223–247, September 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-3/p223-smith/p223-smith.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-3/p223-smith/.

Schlageter:1978:PSD

[55] Gunter Schlageter. Process synchronization in database systems. *ACM Transactions on Database Systems*, 3 (3):248–271, September 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-3/p248-schlageter/p248-schlageter.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-3/p248-schlageter/. See errata report in [91].

Hollaar:1978:SMP

[56] Lee A. Hollaar. Specialized merge processor networks for combining sorted lists. *ACM Transactions on Database Systems*, 3(3):272–284, September 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-3/p272-hollaar/p272-

hollaar.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-3/p272-hollaar/.

Haerder:1978:IGA

[57] Theo Haerder. Implementing a generalized access path structure for a relational database system. *ACM Transactions on Database Systems*, 3(3): 285–298, September 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-3/p285-haerder/p285-haerder.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-3/p285-haerder/.

Yu:1978:PP

[58] C. T. Yu, M. K. Siu, and K. Lam. On a partitioning problem. *ACM Transactions on Database Systems*, 3(3): 299–309, September 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-3/p299-yu/p299-yu.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-3/p299-yu/.

Fagin:1978:AM

[59] Ronald Fagin. On an authorization mechanism. *ACM Transactions on Database Systems*, 3(3):310–319, September 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-3/p310-fagin/p310-fagin.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-3/p310-fagin/.

Salton:1978:GSC

[60] G. Salton and A. Wong. Generation and search of clustered files. *ACM Transactions on Database Systems*, 3(4):321–346, December 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-4/p321-salton/p321-salton.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-4/p321-salton/.

Banerjee:1978:CCD

[61] Jayanta Banerjee, Richard I. Baum, and David K. Hsiao. Concepts and capabilities of a database computer. *ACM Transactions on Database Systems*, 3(4):347–384, December 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-4/p347-banerjee/p347-banerjee.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-4/p347-banerjee/.

Bradley:1978:EOC

[62] J. Bradley. An extended owner-coupled set data model and predicate calculus for database management. *ACM Transactions on Database Systems*, 3(4):385–416, December 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-4/p385-bradley/p385-bradley.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-4/p385-bradley/.

Shneiderman:1978:IHF

[63] Ben Shneiderman. Improving the human factors aspect of database interactions. *ACM Transactions on Database Systems*, 3(4):417–439, December 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-4/p417-shneiderman/p417-shneiderman.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-4/p417-shneiderman/.

Comer:1978:DOI

[64] Douglas Comer. The difficulty of optimum index selection. *ACM Transactions on Database Systems*, 3(4):440–445, December 1978. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1978-3-4/p440-comer/p440-comer.pdf; http://www.acm.org/pubs/citations/journals/tods/1978-3-4/p440-comer/.

Babb:1979:IRD

[65] E. Babb. Implementing a relational database by means of specialized hardware. *ACM Transactions on Database Systems*, 4(1):1–29, March 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-1/p1-babb/p1-babb.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-1/p1-babb/.

Beeri:1979:CPR

[66] Catriel Beeri and Philip A. Bernstein. Computational problems related to the design of normal form relational schemas. *ACM Transactions on Database Systems*, 4(1):30–59, March 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-1/p30-beeri/p30-beeri.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-1/p30-beeri/. Also published in/as: errata in ACM Transactions on Database Systems, Vol. 4 No. 3, Sep. 1979, pp. 396.

Lockemann:1979:DAD

[67] Peter C. Lockemann, Heinrich C. Mayr, Wolfgang H. Weil, and Wolfgang H. Wohlleber. Data abstractions for database systems. *ACM Transactions on Database Systems*, 4(1):60–75, March 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-1/p60-lockemann/p60-lockemann.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-1/p60-lockemann/.

Denning:1979:TTS

[68] Dorothy E. Denning, Peter J. Denning, and Mayer D. Schwartz. The tracker: a threat to statistical database security. *ACM Transactions on Database Systems*, 4(1):76–96, March 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-1/p76-denning/p76-denning.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-1/p76-denning/.

Dobkin:1979:SDP

[69] David Dobkin, Anita K. Jones, and Richard J. Lipton. Secure databases: Protection against user influence. *ACM Transactions on Database Systems*, 4(1):97–106, March 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-1/p97-dobkin/p97-dobkin.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-1/p97-dobkin/.

Kent:1979:LRB

[70] William Kent. Limitations of record-based information models. *ACM Transactions on Database Systems*, 4 (1):107–131, March 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-1/p107-kent/p107-kent.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-1/p107-kent/.

Yao:1979:OQE

[71] S. Bing Yao. Optimization of query evaluation algorithms. *ACM Transactions on Database Systems*, 4(2):133–155, June 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-2/p133-yao/p133-yao.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-2/p133-yao/.

Schwartz:1979:LQS

[72] M. D. Schwartz, D. E. Denning, and P. J. Denning. Linear queries in statistical databases. *ACM Transactions on Database Systems*, 4(2):156–167, June 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-2/p156-schwartz/p156-schwartz.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-2/p156-schwartz/.

Aho:1979:OPM

[73] Alfred V. Aho and Jeffrey D. Ullman. Optimal partial-match retrieval when fields are independently specified. *ACM Transactions on Database Systems*, 4(2):168–179, June 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-2/p168-aho/p168-aho.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-2/p168-aho/.

Thomas:1979:MCA

[74] Robert H. Thomas. A majority consensus approach to concurrency control for multiple copy databases. *ACM Transactions on Database Systems*, 4(2):180–209, June 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-2/p180-thomas/p180-thomas.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-2/p180-thomas/.

Ries:1979:LGR

[75] Daniel R. Ries and Michael R. Stonebraker. Locking granularity revisited. *ACM Transactions on Database Systems*, 4(2):210–227, June 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-2/p210-ries/p210-ries.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-2/p210-ries/.

Burkhard:1979:PMH

[76] Walter A. Burkhard. Partial-match hash coding: Benefits of redundancy. *ACM Transactions on Database Systems*, 4(2):228–239, June 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-2/p228-burkhard/p228-burkhard.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-2/p228-burkhard/.

Raghavan:1979:EDR

[77] Vijay V. Raghavan and C. T. Yu. Experiments on the determination of the relationships between terms. *ACM Transactions on Database Systems*, 4(2):240–260, June 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-2/p240-raghavan/p240-raghavan.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-2/p240-raghavan/.

Lipski:1979:SIC

[78] Witold Lipski, Jr. On semantic issues connected with incomplete information databases. *ACM Transactions on Database Systems*, 4(3):262–296, September 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-3/p262-lipski/p262-lipski.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-3/p262-lipski/.

Aho:1979:TJR

[79] A. V. Aho, C. Beeri, and J. D. Ullman. The theory of joins in relational databases. *ACM Transactions on Database Systems*, 4(3):297–314, September 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-3/p297-aho/p297-aho.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-3/p297-aho/. See corrigendum [188].

Fagin:1979:EHF

[80] Ronald Fagin, Jürg Nievergelt, Nicholas Pippenger, and H. Raymond Strong. Extendible hashing — a fast access method for dynamic files. *ACM Transactions on Database Systems*, 4(3):315–344, September 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-3/p315-fagin/p315-fagin.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-3/p315-fagin/. Also published in/as:

IBM Research Report RJ2305, Jul. 1978. See [1103].

Lam:1979:PSH

[81] Chat Yu Lam and Stuart E. Madnick. Properties of storage hierarchy systems with multiple page sizes and redundant data. *ACM Transactions on Database Systems*, 4(3):345–367, September 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1979-4-3/p345-lam/.

Buneman:1979:EMR

[82] O. Peter Buneman and Eric K. Clemons. Efficiently monitoring relational databases. *ACM Transactions on Database Systems*, 4(3):368–382, September 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-3/p368-buneman/p368-buneman.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-3/p368-buneman/. Also published in/as: Working paper, 76-10-08, Dep. Decision Sciences, The Wharton School, Un. Penn, PA, Jun. 1977.

Comer:1979:HTI

[83] Douglas Comer. Heuristics for trie index minimization. *ACM Transactions on Database Systems*, 4(3):383–395, September 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-3/p383-comer/p383-comer.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-3/p383-comer/.

Codd:1979:EDR

[84] E. F. Codd. Extending the database relational model to capture more meaning. *ACM Transactions on Database Systems*, 4(4):397–434, December 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-4/p397-codd/p397-codd.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-4/p397-codd/. Reprinted in [1109, pp. 457–475].

Aho:1979:EOC

[85] A. V. Aho, Y. Sagiv, and J. D. Ullman. Efficient optimization of a class of relational expressions. *ACM Transactions on Database Systems*, 4(4):435–454, December 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-4/p435-aho/p435-aho.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-4/p435-aho/.

Maier:1979:TID

[86] David Maier, Alberto O. Mendelzon, and Yehoshua Sagiv. Testing implications of data dependencies. *ACM Transactions on Database Systems*, 4(4):455–469, December 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-4/p455-maier/p455-maier.pdf; http://www.acm.org/pubs/

citations/journals/tods/1979-4-4/p455-maier/.

Housel:1979:PTI

[87] Barron C. Housel. Pipelining: a technique for implementing data restructurers. *ACM Transactions on Database Systems*, 4(4):470–492, December 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-4/p470-housel/p470-housel.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-4/p470-housel/.

Shopiro:1979:TPL

[88] Jonathan E. Shopiro. Theseus — A programming language for relational databases. *ACM Transactions on Database Systems*, 4(4):493–517, December 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-4/p493-shopiro/p493-shopiro.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-4/p493-shopiro/.

Yamamoto:1979:DBM

[89] Sumiyasu Yamamoto, Shinsei Tazawa, Kazuhiko Ushio, and Hideto Ikeda. Design of a balanced multiple-valued file-organization scheme with the least redundancy. *ACM Transactions on Database Systems*, 4(4):518–530, December 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-4/p518-yamamoto/p518-yamamoto.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-4/p518-yamamoto/.

Batory:1979:STF

[90] Don S. Batory. On searching transposed files. *ACM Transactions on Database Systems*, 4(4):531–544, December 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-4/p531-batory/p531-batory.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-4/p531-batory/.

Bernstein:1979:CPS

[91] Philip A. Bernstein, Marco A. Casanova, and Nathan Goodman. Comments on “Process Synchronization in Database Systems”. *ACM Transactions on Database Systems*, 4(4):545–546, December 1979. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1979-4-4/p545-bernstein/p545-bernstein.pdf; http://www.acm.org/pubs/citations/journals/tods/1979-4-4/p545-bernstein/. See [55].

Rothnie:1980:ISD

[92] James B. Rothnie, Jr., Philip A. Bernstein, S. Fox, N. Goodman, M. Hammer, T. A. Landers, C. Reeve, David W. Shipman, and E. Wong. Introduction to a system for distributed databases (SDD-1). *ACM Transactions on Database Systems*, 5(1):1–17, March 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.

org/pubs/articles/journals/tods/1980-5-1/p1-rothnie/p1-rothnie.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-1/p1-rothnie/.

Bernstein:1980:CCS

[93] Philip A. Bernstein, David W. Shipman, and James B. Rothnie, Jr. Concurrency control in a system for distributed databases (SDD-1). *ACM Transactions on Database Systems*, 5(1):18–51, March 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-1/p18-bernstein/p18-bernstein.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-1/p18-bernstein/.

Bernstein:1980:CCC

[94] Philip A. Bernstein and David W. Shipman. Correctness of concurrency control mechanisms in a system for distributed databases (SDD-1). *ACM Transactions on Database Systems*, 5(1):52–68, March 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-1/p52-bernstein/p52-bernstein.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-1/p52-bernstein/.

Gopalakrishna:1980:PEA

[95] V. Gopalakrishna and C. E. Veni Madhavan. Performance evaluation of attribute-based tree organization. *ACM Transactions on Database Systems*, 5(1):69–87, March 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-1/p69-gopalakrishna/p69-gopalakrishna.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-1/p69-gopalakrishna/.

Denning:1980:FPF

[96] Dorothy E. Denning and Jan Schlörer. Fast procedure for finding a tracker in a statistical database. *ACM Transactions on Database Systems*, 5(1):88–102, March 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-1/p88-denning/p88-denning.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-1/p88-denning/.

Menasce:1980:LPR

[97] Daniel A. Menascé, Gerald J. Popek, and Richard R. Muntz. A locking protocol for resource coordination in distributed databases. *ACM Transactions on Database Systems*, 5(2):103–138, June 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-2/p103-menasce/p103-menasce.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-2/p103-menasce/.

Bayer:1980:PRD

[98] R. Bayer, H. Heller, and A. Reiser. Parallelism and recovery in database

systems. *ACM Transactions on Database Systems*, 5(2):139–156, June 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-2/p139-bayer/p139-bayer.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-2/p139-bayer/.

Navathe:1980:SAD

[99] Shamkant B. Navathe. Schema analysis for database restructuring. *ACM Transactions on Database Systems*, 5 (2):157–184, June 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-2/p157-navathe/p157-navathe.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-2/p157-navathe/. Also published in/as: Proceedings of the Third Conference on Very Large Databases, Morgan Kaufman pubs. (Los Altos CA), 1977.

Mylopoulos:1980:LFD

[100] John Mylopoulos, Philip A. Bernstein, and Harry K. T. Wong. A language facility for designing database-intensive applications. *ACM Transactions on Database Systems*, 5(2):185–207, June 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-2/p185-mylopoulos/p185-mylopoulos.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-2/p185-mylopoulos/.

Lozinskii:1980:CRR

[101] Eliezer L. Lozinskii. Construction of relations in relational databases. *ACM Transactions on Database Systems*, 5 (2):208–224, June 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-2/p208-lozinskii/p208-lozinskii.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-2/p208-lozinskii/.

Stonebraker:1980:RDS

[102] Michael Stonebraker. Retrospection on a database system. *ACM Transactions on Database Systems*, 5(2):225–240, June 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-2/p225-stonebraker/p225-stonebraker.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-2/p225-stonebraker/. Reprinted in [1109].

Beeri:1980:MPF

[103] Catriel Beeri. On the membership problem for functional and multivalued dependencies in relational databases. *ACM Transactions on Database Systems*, 5(3):241–259, September 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-3/p241-beeri/p241-beeri.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-3/p241-beeri/.

Klug:1980:CCR

[104] A. Klug. Calculating constraints on relational expressions. *ACM Transactions on Database Systems*, 5(3): 260–290, September 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-3/p260-klug/p260-klug.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-3/p260-klug/.

Denning:1980:SSD

[105] Dorothy E. Denning. Secure statistical databases with random sample queries. *ACM Transactions on Database Systems*, 5(3):291–315, September 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-3/p291-denning/p291-denning.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-3/p291-denning/.

Beck:1980:SMS

[106] Leland L. Beck. A security mechanism for statistical database. *ACM Transactions on Database Systems*, 5 (3):316–338, September 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-3/p316-beck/p316-beck.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-3/p316-beck/.

Lee:1980:QTF

[107] D. T. Lee and C. K. Wong. Quintary trees: a file structure for multidimensional database systems. *ACM Transactions on Database Systems*, 5(3):339–353, September 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-3/p339-lee/p339-lee.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-3/p339-lee/.

Kung:1980:CMB

[108] H. T. Kung and Philip L. Lehman. Concurrent manipulation of binary search trees. *ACM Transactions on Database Systems*, 5(3):354–382, September 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-3/p354-kung/p354-kung.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-3/p354-kung/.

Denning:1980:CLQ

[109] D. E. Denning. Corrigenda on linear queries in statistical databases. *ACM Transactions on Database Systems*, 5 (3):383, September 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Hsiao:1980:TFT

[110] David K. Hsiao. TODS — the first three years (1976&ndash1978). *ACM Transactions on Database Systems*, 5 (4):385–403, December 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-4/p385-hsiao/p385-hsiao.pdf; http://www.acm.org/pubs/

citations/journals/tods/1980-5-4/p385-hsiao/.

Armstrong:1980:DFD

[111] W. W. Armstrong and C. Delobel. Decompositions and functional dependencies in relations. *ACM Transactions on Database Systems*, 5(4):404–430, December 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-4/p404-armstrong/p404-armstrong.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-4/p404-armstrong/.

Hammer:1980:RMS

[112] Michael Hammer and David Shipman. Reliability mechanisms for SDD-1: a system for distributed databases. *ACM Transactions on Database Systems*, 5(4):431–466, December 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-4/p431-hammer/p431-hammer.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-4/p431-hammer/.

Schloer:1980:SSD

[113] Jan Schlöer. Security of statistical databases: multidimensional transformation. *ACM Transactions on Database Systems*, 5(4):467–492, December 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1980-5-4/p467-schler/.

Herot:1980:SMD

[114] Christopher F. Herot. Spatial management of data. *ACM Transactions on Database Systems*, 5(4):493–513, December 1980. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1980-5-4/p493-herot/p493-herot.pdf; http://www.acm.org/pubs/citations/journals/tods/1980-5-4/p493-herot/.

Zaniolo:1981:DRD

[115] Carlo Zaniolo and Michel A. Melkanoff. On the design of relational database schemata. *ACM Transactions on Database Systems*, 6(1):1–47, March 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-1/p1-zaniolo/p1-zaniolo.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-1/p1-zaniolo/.

Lien:1981:HSR

[116] Y. Edmund Lien. Hierarchical schemata for relational databases. *ACM Transactions on Database Systems*, 6(1):48–69, March 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-1/p48-lien/p48-lien.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-1/p48-lien/.

Chamberlin:1981:SRT

[117] D. D. Chamberlin, M. M. Astrahan, W. F. King, R. A. Lorie, J. W. Mehl,

T. G. Price, M. Schkolnick, P. Griffiths Selinger, D. R. Slutz, B. W. Wade, and R. A. Yost. Support for repetitive transactions and ad hoc queries in System R. *ACM Transactions on Database Systems*, 6(1):70–94, March 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-1/p70-chamberlin/p70-chamberlin.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-1/p70-chamberlin/. Also published in/as: IBM Research Report RJ2551(33151), May. 1979.

Schlorer:1981:SSD

[118] Jan Schlörer. Security of statistical databases: Multidimensional transformation. *ACM Transactions on Database Systems*, 6(1):95–112, March 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-1/p95-schlorer/p95-schlorer.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-1/p95-schlorer/.

Chin:1981:SDD

[119] Francis Y. Chin and Gultekin Özsoyoğlu. Statistical database design. *ACM Transactions on Database Systems*, 6(1):113–139, March 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-1/p113-chin/p113-chin.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-1/p113-chin/.

Shipman:1981:FDM

[120] David W. Shipman. The functional data model and the data language DAPLEX. *ACM Transactions on Database Systems*, 6(1):140–173, March 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-1/p140-shipman/p140-shipman.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-1/p140-shipman/. Reprinted in [1109].

Rosenberg:1981:TSO

[121] Arnold L. Rosenberg and Lawrence Snyder. Time- and space-optimality in B-Trees. *ACM Transactions on Database Systems*, 6(1):174–193, March 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-1/p174-rosenberg/p174-rosenberg.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-1/p174-rosenberg/.

Scholl:1981:NFO

[122] Michel Scholl. New file organizations based on dynamic hashing. *ACM Transactions on Database Systems*, 6(1):194–211, March 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-1/p194-scholl/p194-scholl.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-1/p194-scholl/.

Kung:1981:OMC

[123] H. T. Kung and John T. Robinson. On optimistic methods for concurrency control. *ACM Transactions on Database Systems*, 6(2):213–226, June 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-2/p213-kung/p213-kung.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-2/p213-kung/. Reprinted in [1109].

Boral:1981:PAS

[124] Haran Boral and David J. DeWitt. Processor allocation strategies for multiprocessor database machines. *ACM Transactions on Database Systems*, 6(2):227–254, June 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-2/p227-boral/p227-boral.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-2/p227-boral/.

Su:1981:TDT

[125] Stanley Y. W. Su, Herman Lam, and Der Her Lo. Transformation of data traversals and operations in application programs to account for semantic changes of databases. *ACM Transactions on Database Systems*, 6(2):255–294, June 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-2/p255-su/p255-su.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-2/p255-su/.

Clemons:1981:DES

[126] Eric K. Clemons. Design of an external schema facility to define and process recursive structures. *ACM Transactions on Database Systems*, 6(2):295–311, June 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-2/p295-clemons/p295-clemons.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-2/p295-clemons/.

Davida:1981:DES

[127] George I. Davida, David L. Wells, and John B. Kam. A database encryption system with subkeys. *ACM Transactions on Database Systems*, 6(2):312–328, June 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-2/p312-davida/p312-davida.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-2/p312-davida/.

Ling:1981:ITN

[128] Tok Wang Ling, Frank W. Tompa, and Tiko Kameda. An improved third normal form for relational databases. *ACM Transactions on Database Systems*, 6(2):329–346, June 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-2/p329-ling/p329-ling.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-2/p329-ling/.

McLean:1981:CSC

[129] Gordon McLean, Jr. Comments on SDD-1 concurrency control mechanisms. *ACM Transactions on Database Systems*, 6(2):347–350, June 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-2/p347-mclean/p347-mclean.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-2/p347-mclean/.

Hammer:1981:DDS

[130] Michael Hammer and Dennis Mc Leod. Database description with SDM: a semantic database model. *ACM Transactions on Database Systems*, 6(3):351–386, September 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-3/p351-hammer/p351-hammer.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-3/p351-hammer/. Reprinted in [1109]. Also published in [1111].

Fagin:1981:NFR

[131] Ronald Fagin. A normal form for relational databases that is based on domains and keys. *ACM Transactions on Database Systems*, 6(3):387–415, September 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-3/p387-fagin/p387-fagin.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-3/p387-fagin/.

Hong:1981:AHS

[132] Y. C. Hong and Stanley Y. W. Su. Associative hardware and software techniques for integrity control. *ACM Transactions on Database Systems*, 6(3):416–440, September 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-3/p416-hong/p416-hong.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-3/p416-hong/.

March:1981:FMS

[133] Salvatore T. March, Dennis G. Severance, and Michael Wilens. Frame memory: a storage architecture to support rapid design and implementation of efficient databases. *ACM Transactions on Database Systems*, 6(3):441–463, September 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-3/p441-march/p441-march.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-3/p441-march/.

vandeRiet:1981:HLP

[134] Reind P. van de Riet, Anthony I. Wasserman, Martin L. Kersten, and Wiebren de Jonge. High-level programming features for improving the efficiency of a relational database system. *ACM Transactions on Database Systems*, 6(3):464–485, September 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/

tods/1981-6-3/p464-van_de_riet/p464-van_de_riet.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-3/p464-van_de_riet/. Also published in/as: UCSF, Lab. of Med. Inf. Science, Tech. Rpt. 44, Feb. 1980.

Culik:1981:DMT

[135] K. Culik II, Th. Ottmann, and D. Wood. Dense multiway trees. *ACM Transactions on Database Systems*, 6 (3):486–512, September 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1981-6-3/p486-culic/.

Comer:1981:AHF

[136] Douglas Comer. Analysis of a heuristic for full trie minimization. *ACM Transactions on Database Systems*, 6(3):513–537, September 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-3/p513-comer/p513-comer.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-3/p513-comer/.

Kent:1981:CAU

[137] W. Kent. Consequences of assuming a universal relation. *ACM Transactions on Database Systems*, 6(4):539–556, December 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-4/p539-kent/p539-kent.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-4/p539-kent/. See remark [203].

Bancilhon:1981:USR

[138] F. B. Bancilhon and N. Spyratos. Update semantics of relational views. *ACM Transactions on Database Systems*, 6(4):557–575, December 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-4/p557-bancilhon/p557-bancilhon.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-4/p557-bancilhon/. See comment [303].

Baroody:1981:OOA

[139] A. James Baroody, Jr. and David J. DeWitt. An object-oriented approach to database system implementation. *ACM Transactions on Database Systems*, 6(4):576–601, December 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-4/p576-baroody/p576-baroody.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-4/p576-baroody/.

Bernstein:1981:QPS

[140] Philip A. Bernstein, Nathan Goodman, Eugene Wong, Christopher L. Reeve, and James B. Rothnie, Jr. Query processing in a system for distributed databases (SDD-1). *ACM Transactions on Database Systems*, 6(4):602–625, December 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-4/p602-bernstein/p602-bernstein.pdf; http://www.acm.org/pubs/

citations/journals/tods/1981-6-4/p602-bernstein/.

Welty:1981:HFC

[141] Charles Welty and David W. Stemple. Human factors comparison of a procedural and a nonprocedural query language. *ACM Transactions on Database Systems*, 6(4):626–649, December 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-4/p626-welty/p626-welty.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-4/p626-welty/.

Lehman:1981:ELC

[142] Philip L. Lehman and S. Bing Yao. Efficient locking for concurrent operations on B-Trees. *ACM Transactions on Database Systems*, 6(4):650–670, December 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-4/p650-lehman/p650-lehman.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-4/p650-lehman/.

Larson:1981:AIS

[143] Per-Åke Larson. Analysis of index-sequential files with overflow chaining. *ACM Transactions on Database Systems*, 6(4):671–680, December 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1981-6-4/p671-larson/p671-larson.pdf; http://www.acm.org/pubs/citations/journals/tods/1981-6-4/p671-larson/.

Comer:1981:EKD

[144] D. Comer. Extended K-d tree database organization: a dynamic multiattribute file corresponds to leaves in the tree. *ACM Transactions on Database Systems*, 6(3):??, September 1981. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Zaniolo:1982:DRN

[145] C. Zaniolo. Database relations with null values. *ACM Transactions on Database Systems*, 1(1):??, March 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Katz:1982:DCD

[146] R. H. Katz and E. Wong. Decompiling CODASYL DML into relational queries. *ACM Transactions on Database Systems*, 7(1):1–23, March 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-1/p1-katz/p1-katz.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-1/p1-katz/.

Zaniolo:1982:FAD

[147] Carlo Zaniolo and Michel A. Melkanoff. A formal approach to the definition and the design of conceptual schemata for database systems. *ACM Transactions on Database Systems*, 7(1):24–59, March 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-1/p24-zaniolo/p24-zaniolo.

pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-1/p24-zaniolo/.

Batory:1982:OFD

[148] D. S. Batory. Optimal file designs and reorganization points. *ACM Transactions on Database Systems*, 7(1):60–81, March 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-1/p60-batory/p60-batory.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-1/p60-batory/. Also published in/as: University of Toronto, TR-CSRG-110, 1980.

Du:1982:DAC

[149] H. C. Du and J. S. Sobolewski. Disk allocation for Cartesian product files on multiple-disk systems. *ACM Transactions on Database Systems*, 7(1):82–101, March 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-1/p82-du/p82-du.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-1/p82-du/.

Dahl:1982:DSD

[150] Verónica Dahl. On database systems development through logic. *ACM Transactions on Database Systems*, 7(1):102–123, March 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-1/p102-dahl/p102-dahl.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-1/p102-dahl/.

Addis:1982:RBL

[151] T. R. Addis. A relation-based language interpreter for a content addressable file store. *ACM Transactions on Database Systems*, 7(2):125–163, June 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-2/p125-addis/p125-addis.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-2/p125-addis/.

Buneman:1982:ITD

[152] Peter Buneman, Robert E. Frankel, and Rishiyur Nikhil. An implementation technique for database query languages. *ACM Transactions on Database Systems*, 7(2):164–186, June 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-2/p164-buneman/p164-buneman.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-2/p164-buneman/.

Obermarck:1982:DDD

[153] Ron Obermarck. Distributed deadlock detection algorithm. *ACM Transactions on Database Systems*, 7(2):187–208, June 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-2/p187-obermarck/p187-obermarck.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-2/p187-obermarck/.

Garcia-Molina:1982:ROT

[154] Héctor García-Molina and Gio Wiederhold. Read-only transactions in a distributed database. *ACM Transactions on Database Systems*, 7(2):209–234, June 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-2/p209-garcia-molina/p209-garcia-molina.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-2/p209-garcia-molina/.

Shneiderman:1982:AAR

[155] Ben Shneiderman and Glenn Thomas. An architecture for automatic relational database system conversion. *ACM Transactions on Database Systems*, 7(2):235–257, June 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-2/p235-shneiderman/p235-shneiderman.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-2/p235-shneiderman/.

Roussopoulos:1982:VIR

[156] Nicholas Roussopoulos. View indexing in relational databases. *ACM Transactions on Database Systems*, 7(2):258–290, June 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-2/p258-roussopoulos/p258-roussopoulos.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-2/p258-roussopoulos/.

Jacobs:1982:IRL

[157] Barry E. Jacobs, Alan R. Aronson, and Anthony C. Klug. On interpretations of relational languages and solutions to the implied constraint problem. *ACM Transactions on Database Systems*, 7(2):291–315, June 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-2/p291-jacobs/p291-jacobs.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-2/p291-jacobs/.

Chamberlin:1982:HFC

[158] Donald D. Chamberlin. On “human factors comparison of a procedural and a nonprocedural query language”. *ACM Transactions on Database Systems*, 7(2):316–317, June 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Traiger:1982:TCD

[159] Irving L. Traiger, Jim Gray, Cesare A. Galtieri, and Bruce G. Lindsay. Transactions and consistency in distributed database systems. *ACM Transactions on Database Systems*, 7(3):323–342, September 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-3/p323-traiger/p323-traiger.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-3/p323-traiger/.

Fagin:1982:SUR

[160] Ronald Fagin, Alberto O. Mendelzon, and Jeffrey D. Ullman. A sim-

plified universal relation assumption and its properties. *ACM Transactions on Database Systems*, 7(3):343–360, September 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-3/p343-fagin/p343-fagin.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-3/p343-fagin/.

Klug:1982:DVD

[161] Anthony Klug and Rod Price. Determining View dependencies using tableaux. *ACM Transactions on Database Systems*, 7(3):361–380, September 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-3/p361-klug/p361-klug.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-3/p361-klug/.

Dayal:1982:CTU

[162] Umeshwar Dayal and Philip A. Bernstein. On the correct translation of update operations on relational views. *ACM Transactions on Database Systems*, 7(3):381–416, September 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-3/p381-dayal/p381-dayal.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-3/p381-dayal/.

Griffith:1982:TPR

[163] Robert L. Griffith. Three principles of representation for semantic networks. *ACM Transactions on Database Systems*, 7(3):417–442, September 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-3/p417-griffith/p417-griffith.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-3/p417-griffith/.

Kim:1982:OSL

[164] Won Kim. On optimizing an SQL-like nested query. *ACM Transactions on Database Systems*, 7(3):443–469, September 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-3/p443-kim/p443-kim.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-3/p443-kim/.

Wong:1982:SAI

[165] Eugene Wong. A statistical approach to incomplete information in database systems. *ACM Transactions on Database Systems*, 7(3):470–488, September 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-3/p470-wong/p470-wong.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-3/p470-wong/.

Zaniolo:1982:NNF

[166] Carlo Zaniolo. A new normal form for the design of relational database schemata. *ACM Transactions on Database Systems*, 7(3):489–499,

September 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-3/p489-zaniolo/p489-zaniolo.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-3/p489-zaniolo/.

Lam:1982:CSA

[167] K. Lam and C. T. Yu. A clustered search algorithm incorporating arbitrary term dependencies. *ACM Transactions on Database Systems*, 7(3):500–508, September 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-3/p500-lam/p500-lam.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-3/p500-lam/.

Batory:1982:UMP

[168] D. S. Batory and C. C. Gotlieb. A unifying model of physical databases. *ACM Transactions on Database Systems*, 7(4):509–539, December 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-4/p509-batory/p509-batory.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-4/p509-batory/.

Aghili:1982:PGD

[169] Houtan Aghili and Dennis G. Severance. Practical guide to the design of differential files for recovery of on-line databases. *ACM Transactions on Database Systems*, 7(4):540–565, December 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-4/p540-aghili/p540-aghili.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-4/p540-aghili/.

Larson:1982:PAL

[170] Per-Åke Larson. Performance analysis of linear hashing with partial expansions. *ACM Transactions on Database Systems*, 7(4):566–587, December 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-4/p566-larson/p566-larson.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-4/p566-larson/.

Babb:1982:JNF

[171] E. Babb. Joined normal form: a storage encoding for relational databases. *ACM Transactions on Database Systems*, 7(4):588–614, December 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-4/p588-babb/p588-babb.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-4/p588-babb/.

Heyman:1982:MMD

[172] Daniel P. Heyman. Mathematical models of database degradation. *ACM Transactions on Database Systems*, 7(4):615–631, December 1982. CODEN ATDSD3.

ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-4/p615-heyman/p615-heyman.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-4/p615-heyman/.

Korth:1982:DFU

[173] Henry F. Korth. Deadlock freedom using edge locks. *ACM Transactions on Database Systems*, 7(4):632–652, December 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-4/p632-korth/p632-korth.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-4/p632-korth/.

Goodman:1982:TQS

[174] Nathan Goodman and Oded Shmueli. Tree queries: a simple class of relational queries. *ACM Transactions on Database Systems*, 7(4):653–677, December 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-4/p653-goodman/p653-goodman.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-4/p653-goodman/.

Kerschberg:1982:QOS

[175] Larry Kerschberg, Peter D. Ting, and S. Bing Yao. Query optimization in star computer networks. *ACM Transactions on Database Systems*, 7(4):678–711, December 1982. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1982-7-4/p678-kerschberg/p678-kerschberg.pdf; http://www.acm.org/pubs/citations/journals/tods/1982-7-4/p678-kerschberg/.

Maier:1983:MOS

[176] David Maier and Jeffrey D. Ullman. Maximal objects and the semantics of universal relation databases. *ACM Transactions on Database Systems*, 8(1):1–14, March 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-1/p1-maier/p1-maier.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-1/p1-maier/. Also published in/as: SUNY, Stony Brook, CS, TR 80/016, 1980.

Haskin:1983:OCH

[177] Roger L. Haskin and Lee A. Hollaar. Operational characteristics of a hardware-based pattern matcher. *ACM Transactions on Database Systems*, 8(1):15–40, March 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-1/p15-haskin/p15-haskin.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-1/p15-haskin/.

Sicherman:1983:AQR

[178] George L. Sicherman, Wiebren De Jonge, and Reind P. Van De Riet. Answering queries without revealing secrets. *ACM Transactions on Database Systems*, 8(1):41–59, March 1983. CODEN ATDSD3.

ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-1/p41-sicherman/p41-sicherman.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-1/p41-sicherman/. Also published in/as: reprinted in deJonge thesis, Jun. 1985.

deJonge:1983:CSD

[179] Wiebren de Jonge. Compromising statistical databases responding to queries about means. *ACM Transactions on Database Systems*, 8(1):60–80, March 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-1/p60-de_jonge/p60-de_jonge.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-1/p60-de_jonge/. Also published in/as: reprinted in Jun. 1985 thesis.

Graham:1983:FD

[180] Marc H. Graham. Functions in databases. *ACM Transactions on Database Systems*, 8(1):81–109, March 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-1/p81-graham/p81-graham.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-1/p81-graham/.

Katz:1983:RCG

[181] R. H. Katz and E. Wong. Resolving conflicts in global storage design through replication. *ACM Transactions on Database Systems*, 8(1):110–135, March 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-1/p110-katz/p110-katz.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-1/p110-katz/.

Lomet:1983:BIE

[182] David B. Lomet. Bounded index exponential hashing. *ACM Transactions on Database Systems*, 8(1):136–165, March 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-1/p136-lomet/p136-lomet.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-1/p136-lomet/.

Stonebraker:1983:PER

[183] Michael Stonebraker, John Woodfill, Jeff Ranstrom, Marguerite Murphy, Marc Meyer, and Eric Allman. Performance enhancements to a relational database system. *ACM Transactions on Database Systems*, 8(2):167–185, June 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-2/p167-stonebraker/p167-stonebraker.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-2/p167-stonebraker/.

Garcia-Molina:1983:USK

[184] Héctor García-Molina. Using semantic knowledge for transaction processing in a distributed database. *ACM Transac-*

tions on Database Systems, 8(2):186–213, June 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-2/p186-garcia-molina/p186-garcia-molina.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-2/p186-garcia-molina/.

Clifford:1983:FST

[185] James Clifford and David S. Warren. Formal semantics for time in databases. *ACM Transactions on Database Systems*, 8(2):214–254, June 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-2/p214-clifford/p214-clifford.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-2/p214-clifford/.

Bitton:1983:DRE

[186] Dina Bitton and David J. DeWitt. Duplicate record elimination in large data files. *ACM Transactions on Database Systems*, 8(2):255–265, June 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-2/p255-bitton/p255-bitton.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-2/p255-bitton/.

Sagiv:1983:CGC

[187] Yehoshua Sagiv. A characterization of globally consistent databases and their correct access paths. *ACM Transactions on Database Systems*, 8(2):266–286, June 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-2/p266-sagiv/p266-sagiv.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-2/p266-sagiv/.

Ullman:1983:CTJ

[188] Jeffrey D. Ullman. Corrigendum: The theory of joins in relational databases. *ACM Transactions on Database Systems*, 8(2):287, June 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). See [79].

Cardenas:1983:PRA

[189] Alfonso F. Cardenas, Farid Alavian, and Algirdas Avizienis. Performance of recovery architectures in parallel associative database processors. *ACM Transactions on Database Systems*, 8(3):291–323, September 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-3/p291-cardenas/p291-cardenas.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-3/p291-cardenas/.

Bitton:1983:PAE

[190] Dina Bitton, Haran Boral, David J. DeWitt, and W. Kevin Wilkinson. Parallel algorithms for the execution of relational database operations. *ACM Transactions on Database Systems*, 8(3):324–353, September 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644

(electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-3/p324-bitton/p324-bitton.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-3/p324-bitton/.

Eager:1983:ARD

[191] Derek L. Eager and Kenneth C. Sevcik. Achieving robustness in distributed database systems. *ACM Transactions on Database Systems*, 8(3):354–381, September 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-3/p354-eager/p354-eager.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-3/p354-eager/.

Trueblood:1983:MMM

[192] Robert P. Trueblood, H. Rex Hartson, and Johannes J. Martin. MULTISAFE — A modular multiprocessing approach to secure database management. *ACM Transactions on Database Systems*, 8(3):382–409, September 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-3/p382-trueblood/p382-trueblood.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-3/p382-trueblood/.

Ito:1983:HFO

[193] Tetsuro Ito and Makoto Kizawa. Hierarchical file organization and its application to similar-string matching. *ACM Transactions on Database Systems*, 8(3):410–433, September 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-3/p410-ito/p410-ito.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-3/p410-ito/.

Kolodner:1983:IRS

[194] Janet L. Kolodner. Indexing and retrieval strategies for natural language fact retrieval. *ACM Transactions on Database Systems*, 8(3):434–464, September 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-3/p434-kolodner/p434-kolodner.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-3/p434-kolodner/.

Bernstein:1983:MCC

[195] Philip A. Bernstein and Nathan Goodman. Multiversion concurrency control — theory and algorithms. *ACM Transactions on Database Systems*, 8(4):465–483, December 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-4/p465-bernstein/p465-bernstein.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-4/p465-bernstein/.

Lynch:1983:MAN

[196] Nancy A. Lynch. Multilevel atomicity — A new correctness criterion for database concurrency control. *ACM Transactions on Database*

Systems, 8(4):484–502, December 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-4/p484-lynch/p484-lynch.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-4/p484-lynch/.

Hecht:1983:SMF

[197] Matthew S. Hecht and John D. Gabbe. Shadowed management of free disk pages with a linked list. *ACM Transactions on Database Systems*, 8(4):503–514, December 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-4/p503-hecht/p503-hecht.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-4/p503-hecht/.

Malhotra:1983:EIA

[198] A. Malhotra, H. M. Markowitz, and D. P. Pazel. EAS-E: An integrated approach to application development. *ACM Transactions on Database Systems*, 8(4):515–542, December 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-4/p515-malhotra/p515-malhotra.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-4/p515-malhotra/.

Moran:1983:CDO

[199] Shlomo Moran. On the complexity of designing optimal partial-match retrieval systems. *ACM Transactions on Database Systems*, 8(4):543–551, December 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-4/p543-moran/p543-moran.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-4/p543-moran/.

Ramamohanarao:1983:PMR

[200] K. Ramamohanarao, John W. Lloyd, and James A. Thom. Partial-match retrieval using hashing and descriptors. *ACM Transactions on Database Systems*, 8(4):552–576, December 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-4/p552-ramamohanarao/p552-ramamohanarao.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-4/p552-ramamohanarao/.

Ceri:1983:CQE

[201] S. Ceri and G. Pelagatti. Correctness of query execution strategies in distributed databases. *ACM Transactions on Database Systems*, 8(4):577–607, December 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-4/p577-ceri/p577-ceri.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-4/p577-ceri/.

Biskup:1983:FCR

[202] Joachim Biskup. A foundation of Codd's relational maybe op-

erators. *ACM Transactions on Database Systems*, 8(4):608–636, December 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-4/p608-biskup/p608-biskup.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-4/p608-biskup/.

Ullman:1983:KCA

[203] Jeffrey D. Ullman. On Kent's "Consequences of assuming a universal relation" (Technical correspondence). *ACM Transactions on Database Systems*, 8(4):637–643, December 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-4/p637-ullman/p637-ullman.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-4/p637-ullman/. See [137].

Kent:1983:URR

[204] William Kent. The universal relation revisited (technical correspondence). *ACM Transactions on Database Systems*, 8(4):644–648, December 1983. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1983-8-4/p644-kent/p644-kent.pdf; http://www.acm.org/pubs/citations/journals/tods/1983-8-4/p644-kent/.

Kaplan:1984:DPN

[205] S. Jerrold Kaplan. Designing a portable natural language database query system. *ACM Transactions on Database Systems*, 9(1):1–19, March 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-1/p1-kaplan/p1-kaplan.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-1/p1-kaplan/.

Reiss:1984:PDS

[206] Steven P. Reiss. Practical data-swapping: The first steps. *ACM Transactions on Database Systems*, 9(1):20–37, March 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-1/p20-reiss/p20-reiss.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-1/p20-reiss/.

Nievergelt:1984:GFA

[207] J. Nievergelt, Hans Hinterberger, and Kenneth C. Sevcik. The grid file: An adaptable, symmetric multikey file structure. *ACM Transactions on Database Systems*, 9(1):38–71, March 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-1/p38-nievergelt/p38-nievergelt.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-1/p38-nievergelt/.

Buchanan:1984:DMS

[208] Jack R. Buchanan, Richard D. Fennell, and Hanan Samet. A database management system for the Federal Courts. *ACM Transactions*

on Database Systems, 9(1):72–88, March 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-1/p72-buchanan/p72-buchanan.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-1/p72-buchanan/.

Papadimitriou:1984:CCM

[209] Christos H. Papadimitriou and Paris C. Kanellakis. On concurrency control by multiple versions. *ACM Transactions on Database Systems*, 9(1):89–99, March 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-1/p89-papadimitriou/p89-papadimitriou.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-1/p89-papadimitriou/.

Shultz:1984:RTA

[210] Roger K. Shultz and Roy J. Zingg. Response time analysis of multiprocessor computers for database support. *ACM Transactions on Database Systems*, 9 (1):100–132, March 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-1/p100-shultz/p100-shultz.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-1/p100-shultz/.

Valduriez:1984:JSA

[211] Patrick Valduriez and Georges Gardarin. Join and semijoin algorithms for a multiprocessor database machine. *ACM Transactions on Database Systems*, 9(1):133–161, March 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-1/p133-valduriez/p133-valduriez.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-1/p133-valduriez/.

Christodoulakis:1984:ICA

[212] S. Christodoulakis. Implications of certain assumptions in database performance evaluation. *ACM Transactions on Database Systems*, 9(2):163–186, June 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-2/p163-christodoulakis/p163-christodoulakis.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-2/p163-christodoulakis/.

Effelsberg:1984:LIP

[213] Wolfgang Effelsberg and Mary E. S. Loomis. Logical, internal, and physical reference behavior in CODASYL database systems. *ACM Transactions on Database Systems*, 9(2):187–213, June 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-2/p187-effelsberg/p187-effelsberg.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-2/p187-effelsberg/.

Kim:1984:PPR

[214] Won Kim, Daniel Gajski, and David J. Kuck. A parallel pipelined relational query processor. *ACM Transac-*

tions on Database Systems, 9(2):214–242, June 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-2/p214-kim/p214-kim.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-2/p214-kim/.

Al-Suwaiyel:1984:ATC

[215] M. Al-Suwaiyel and E. Horowitz. Algorithms for trie compaction. *ACM Transactions on Database Systems*, 9 (2):243–263, June 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1984-9-2/p243-ai-suwaiyel/.

Mendelzon:1984:DST

[216] Alberto O. Mendelzon. Database states and their tableaux. *ACM Transactions on Database Systems*, 9(2):264–282, June 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-2/p264-mendelzon/p264-mendelzon.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-2/p264-mendelzon/.

Maier:1984:FUR

[217] David Maier, Jeffrey D. Ullman, and Moshe Y. Vardi. On the foundations of the universal relation model. *ACM Transactions on Database Systems*, 9(2):283–308, June 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-2/p283-maier/p283-maier.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-2/p283-maier/.

Katsuno:1984:ECF

[218] Hirofumi Katsuno. An extension of conflict-free multi-valued dependency sets. *ACM Transactions on Database Systems*, 9(2):309–326, June 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-2/p309-katsuno/p309-katsuno.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-2/p309-katsuno/.

Korth:1984:SUD

[219] Henry F. Korth, Gabriel M. Kuper, Joan Feigenbaum, Allen Van Gelder, and Jeffrey D. Ullman. System/U: a database system based on the universal relation assumption. *ACM Transactions on Database Systems*, 9(3):331–347, September 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-3/p331-korth/p331-korth.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-3/p331-korth/.

Wald:1984:RQI

[220] Joseph A. Wald and Paul G. Sorenson. Resolving the query inference problem using Steiner trees. *ACM Transactions on Database Systems*, 9(3):348–368, September 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644

(electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-3/p348-wald/p348-wald.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-3/p348-wald/.

Ramamohanarao:1984:RLH

[221] K. Ramamohanarao and R. Sacks-Davis. Recursive linear hashing. *ACM Transactions on Database Systems*, 9(3):369–391, September 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-3/p369-ramamohanarao/p369-ramamohanarao.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-3/p369-ramamohanarao/.

Cooper:1984:ATU

[222] Robert B. Cooper and Martin K. Solomon. The average time until bucket overflow. *ACM Transactions on Database Systems*, 9(3):392–408, September 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-3/p392-cooper/p392-cooper.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-3/p392-cooper/.

March:1984:SER

[223] Salvatore T. March and Gary D. Scudder. On the selection of efficient record segmentations and backup strategies for large shared databases. *ACM Transactions on Database Systems*, 9(3):409–438, September 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-3/p409-march/p409-march.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-3/p409-march/.

Manber:1984:CCD

[224] Udi Manber and Richard E. Ladner. Concurrency control in a dynamic search structure. *ACM Transactions on Database Systems*, 9(3):439–455, September 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1984-9-3/p439-manbar/. Also published in/as: ACM Proc. on Database Systems, Boston, Apr. 1982, pp. 268–282.

Davidson:1984:OCP

[225] Susan B. Davidson. Optimism and consistency in partitioned distributed database systems. *ACM Transactions on Database Systems*, 9(3):456–481, September 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-3/p456-davidson/p456-davidson.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-3/p456-davidson/.

Ibaraki:1984:ONO

[226] Toshihide Ibaraki and Tiko Kameda. On the optimal nesting order for computing N-relational joins. *ACM Transactions on Database Systems*, 9(3):482–502, September 1984. CODEN ATDSD3. ISSN 0362-5915 (print),

1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-3/p482-ibaraki/p482-ibaraki.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-3/p482-ibaraki/.

Elhardt:1984:DCH

[227] Klaus Elhardt and Rudolf Bayer. A database cache for high performance and fast restart in database systems. *ACM Transactions on Database Systems*, 9(4):503–525, December 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-4/p503-elhardt/p503-elhardt.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-4/p503-elhardt/.

Reuter:1984:PAR

[228] Andreas Reuter. Performance analysis of recovery techniques. *ACM Transactions on Database Systems*, 9(4):526–559, December 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-4/p526-reuter/p526-reuter.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-4/p526-reuter/.

Effelsberg:1984:PDB

[229] Wolfgang Effelsberg and Theo Haerder. Principles of database buffer management. *ACM Transactions on Database Systems*, 9(4):560–595, December 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-4/p560-effelsberg/p560-effelsberg.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-4/p560-effelsberg/.

Bernstein:1984:ACC

[230] Philip A. Bernstein and Nathan Goodman. An algorithm for concurrency control and recovery in replicated distributed databases. *ACM Transactions on Database Systems*, 9(4):596–615, December 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-4/p596-bernstein/p596-bernstein.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-4/p596-bernstein/.

Chen:1984:ANV

[231] Wen Chin Chen and Jeffrey Scott Vitter. Analysis of new variants of coalesced hashing. *ACM Transactions on Database Systems*, 9(4):616–645, December 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-4/p616-chen/p616-chen.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-4/p616-chen/.

Deogun:1984:OCF

[232] J. S. Deogun, V. V. Raghavan, and T. K. W. Tsou. Organization of clustered files for consecutive retrieval. *ACM Transactions on Database Systems*, 9(4):646–671, December 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644

(electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-4/p646-deogun/p646-deogun.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-4/p646-deogun/.

Traub:1984:SSS

[233] J. F. Traub, Y. Yemini, and H. Wozniakowski. The statistical security of a statistical database. *ACM Transactions on Database Systems*, 9(4): 672–679, December 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Navathe:1984:VPA

[234] Shamkant Navathe, Stefano Ceri, Gio Wiederhold, and Jinglie Dou. Vertical partitioning algorithms for database design. *ACM Transactions on Database Systems*, 9(4):680–710, December 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1984-9-4/p680-navathe/p680-navathe.pdf; http://www.acm.org/pubs/citations/journals/tods/1984-9-4/p680-navathe/. Also published in/as: Stanford Un., TR-CS-82-957, Jan. 1983, revised Aug. 1983.

Maier:1984:DFG

[235] D. Maier. Databases in the fifth generation project: Is Prolog a database language? *ACM Transactions on Database Systems*, 9(2):??, June 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). Also published in/as: ACM SIGMOD, 1984.

Skeen:1984:IAP

[236] D. Skeen and D. D. Wright. Increasing availability in partitioned database systems. *ACM Transactions on Database Systems*, ??(??):290–299, April 1984. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Franaszek:1985:LCT

[237] Peter Franaszek and John T. Robinson. Limitations of concurrency in transaction processing. *ACM Transactions on Database Systems*, 10(1):1–28, March 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-1/p1-franaszek/p1-franaszek.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-1/p1-franaszek/; http://www.acm.org/pubs/toc/Abstracts/tods/3160.html.

Sacca:1985:DPC

[238] Domenico Sacca and Gio Wiederhold. Database partitioning in a cluster of processors. *ACM Transactions on Database Systems*, 10(1):29–56, March 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-1/p29-sacca/p29-sacca.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-1/p29-sacca/; http://www.acm.org/pubs/toc/Abstracts/tods/3161.html. Also published in [1106, 242–247], and IBM Research Report No. RJ-4076, 1983.

Pramanik:1985:UGT

[239] Sakti Pramanik and David Ittner.

Use of graph-theoretic models for optimal relational database accesses to perform join. *ACM Transactions on Database Systems*, 10(1):57–74, March 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-1/p57-pramanik/p57-pramanik.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-1/p57-pramanik/; http://www.acm.org/pubs/toc/Abstracts/tods/3325.html.

Larson:1985:LHO

[240] Per-Åke Larson. Linear hashing with overflow-handling by linear probing. *ACM Transactions on Database Systems*, 10(1):75–89, March 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-1/p75-larson/p75-larson.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-1/p75-larson/; http://www.acm.org/pubs/toc/Abstracts/tods/3324.html.

Veklerov:1985:ADH

[241] Eugene Veklerov. Analysis of dynamic hashing with deferred splitting. *ACM Transactions on Database Systems*, 10(1):90–96, March 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-1/p90-veklerov/p90-veklerov.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-1/p90-veklerov/.

Palvia:1985:EBS

[242] Prashant Palvia. Expressions for batched searching of sequential and hierarchical files. *ACM Transactions on Database Systems*, 10(1):97–106, March 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-1/p97-palvia/p97-palvia.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-1/p97-palvia/; http://www.acm.org/pubs/toc/Abstracts/tods/3326.html.

Bever:1985:DHS

[243] Martin Bever and Peter C. Lockemann. Database hosting in strongly-typed programming languages. *ACM Transactions on Database Systems*, 10(1):107–126, March 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-1/p107-bever/p107-bever.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-1/p107-bever/; http://www.acm.org/pubs/toc/Abstracts/tods/3327.html.

Chen:1985:AAS

[244] Wen Chin Chen and Jeffrey Scott Vitter. Addendum to: "Analysis of Some New Variants of Coalesced Hashing" [ACM trans. database systems **9** (1984), no. 4, 616–645]. *ACM Transactions on Database Systems*, 10(1):127, March 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Vitter:1985:EIO

[245] Jeffrey Scott Vitter. An efficient I/O interface for optical disks. *ACM Transactions on Database Systems*, 10(2):129–162, June 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-2/p129-vitter/p129-vitter.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-2/p129-vitter/; http://www.acm.org/pubs/toc/Abstracts/tods/3862.html.

Schkolnick:1985:ECU

[246] M. Schkolnick and P. Tiberio. Estimating the cost of updates in a relational database. *ACM Transactions on Database Systems*, 10(2):163–179, June 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-2/p163-schkolnick/p163-schkolnick.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-2/p163-schkolnick/; http://www.acm.org/pubs/toc/Abstracts/tods/3863.html.

Yu:1985:ARC

[247] C. T. Yu, Cheing-Mei Suen, K. Lam, and M. K. Siu. Adaptive record clustering. *ACM Transactions on Database Systems*, 10(2):180–204, June 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-2/p180-yu/p180-yu.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-2/p180-yu/; http://www.acm.org/pubs/toc/Abstracts/tods/3861.html.

Katoh:1985:CTS

[248] Naoki Katoh, Toshihide Ibaraki, and Tiko Kameda. Cautious transaction schedulers with admission control. *ACM Transactions on Database Systems*, 10(2):205–229, June 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-2/p205-katoh/p205-katoh.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-2/p205-katoh/; http://www.acm.org/pubs/toc/Abstracts/tods/3860.html.

Albano:1985:GST

[249] Antonio Albano, Luca Cardelli, and Renzo Orsini. Galileo: a strongly-typed, interactive conceptual language. *ACM Transactions on Database Systems*, 10(2):230–260, June 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-2/p230-albano/p230-albano.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-2/p230-albano/; http://www.acm.org/pubs/toc/Abstracts/tods/3859.html. Also published in [1111].

Huang:1985:HBT

[250] Shou-Hsuan Stephen Huang. Height-balanced trees of order (β, γ, δ). *ACM Transactions on Database Systems*, 10(2):261–284, June 1985. CODEN ATDSD3. ISSN 0362-5915 (print),

1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-2/p261-huang/p261-huang.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-2/p261-huang/.

Piwowarski:1985:CBS

[251] Marek Piwowarski. Comments on batched searching of sequential and tree-structured files. *ACM Transactions on Database Systems*, 10(2):285–287, June 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-2/p285-piwowarski/p285-piwowarski.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-2/p285-piwowarski/; http://www.acm.org/pubs/toc/Abstracts/tods/214294.html. See [16, 168].

Ullman:1985:ILQ

[252] Jeffrey D. Ullman. Implementation of logical query languages for databases. *ACM Transactions on Database Systems*, 10(3):289–321, September 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-3/p289-ullman/p289-ullman.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-3/p289-ullman/; http://www.acm.org/pubs/toc/Abstracts/tods/3980.html. Sep., YEAR = 1985.

Anonymous:1985:SPA

[253] Anonymous. Selected papers from the 1985 ACM SIGMOD Conference. *ACM Transactions on Database Systems*, 10(3):289–346, September 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Batory:1985:MCV

[254] D. S. Batory and Won Kim. Modeling concepts for VLSI CAD objects. *ACM Transactions on Database Systems*, 10(3):322–346, September 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-3/p322-batory/p322-batory.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-3/p322-batory/; http://www.acm.org/pubs/toc/Abstracts/tods/4018.html. Also published in/as: ACM-SIGMOD 1985.

Subieta:1985:SQL

[255] Kazimierz Subieta. Semantics of query languages for network databases. *ACM Transactions on Database Systems*, 10(3):347–394, September 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-3/p347-subieta/p347-subieta.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-3/p347-subieta/; http://www.acm.org/pubs/toc/Abstracts/tods/214293.html.

Liew:1985:DDP

[256] Chong K. Liew, Uinam J. Choi, and Chung J. Liew. A data distortion by probability distribution. *ACM Transactions on Database Systems*, 10(3):395–411, September 1985. CODEN ATDSD3. ISSN

0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-3/p395-liew/p395-liew.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-3/p395-liew/; http://www.acm.org/pubs/toc/Abstracts/tods/4017.html.

Tay:1985:LPC

[257] Y. C. Tay, Nathan Goodman, and Rajan Suri. Locking performance in centralized databases. *ACM Transactions on Database Systems*, 10(4):415–462, December 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-4/p415-tay/p415-tay.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-4/p415-tay/; http://www.acm.org/pubs/toc/Abstracts/tods/4880.html.

Batory:1985:MSA

[258] D. S. Batory. Modeling the storage architectures of commercial database systems. *ACM Transactions on Database Systems*, 10(4):463–528, December 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-4/p463-batory/p463-batory.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-4/p463-batory/; http://www.acm.org/pubs/toc/Abstracts/tods/5392.html.

Agrawal:1985:ICC

[259] Rakesh Agrawal and David J. Dewitt. Integrated concurrency control and recovery mechanisms: Design and performance evaluation. *ACM Transactions on Database Systems*, 10(4):529–564, December 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-4/p529-agrawal/p529-agrawal.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-4/p529-agrawal/; http://www.acm.org/pubs/toc/Abstracts/tods/4958.html.

Borgida:1985:LFF

[260] Alexander Borgida. Language features for flexible handling of exceptions in information systems. *ACM Transactions on Database Systems*, 10(4):565–603, December 1985. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1985-10-4/p565-borgida/p565-borgida.pdf; http://www.acm.org/pubs/citations/journals/tods/1985-10-4/p565-borgida/; http://www.acm.org/pubs/toc/Abstracts/tods/4995.html. Also published in/as: Rutgers Un., TR-LCSR-70, rev. Mar. 1985.

Hagmann:1986:PAS

[261] Robert Brian Hagmann and Domenico Ferrari. Performance analysis of several back-end database architectures. *ACM Transactions on Database Systems*, 11(1):1–26, March 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-1/p1-hagmann/p1-hagmann.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-1/p1-hagmann/; http://www.acm.

org/pubs/toc/Abstracts/tods/5242.html.

Garcia-Molina:1986:ABA

[262] Héctor García-Molina, Frank Pittelli, and Susan Davidson. Applications of Byzantine agreement in database systems. *ACM Transactions on Database Systems*, 11(1):27–47, March 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-1/p27-molina/p27-molina.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-1/p27-molina/; http://www.acm.org/pubs/toc/Abstracts/tods/5243.html.

Segev:1986:OJO

[263] Arie Segev. Optimization of join operations in horizontally partitioned database systems. *ACM Transactions on Database Systems*, 11(1):48–80, March 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-1/p48-segev/p48-segev.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-1/p48-segev/; http://www.acm.org/pubs/toc/Abstracts/tods/5241.html.

Gyssens:1986:CJD

[264] Marc Gyssens. On the complexity of join dependencies. *ACM Transactions on Database Systems*, 11(1):81–108, March 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-1/p81-gyssens/p81-gyssens.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-1/p81-gyssens/; http://www.acm.org/pubs/toc/Abstracts/tods/5237.html.

Sacco:1986:FTE

[265] Giovanni Maria Sacco. Fragmentation: a technique for efficient query processing. *ACM Transactions on Database Systems*, 11(2):113–133, June 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-2/p113-sacco/p113-sacco.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-2/p113-sacco/; http://www.acm.org/pubs/toc/Abstracts/tods/5638.html. Also published in/as: University of Torino, TR., Aug. 1983.

Beeri:1986:IAL

[266] Catriel Beeri and Michael Kifer. An integrated approach to logical design of relational database schemes. *ACM Transactions on Database Systems*, 11(2):134–158, June 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-2/p134-beeri/p134-beeri.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-2/p134-beeri/; http://www.acm.org/pubs/toc/Abstracts/tods/214291.html.

Mendelson:1986:IIC

[267] Haim Mendelson and Aditya N. Saharia. Incomplete information costs

and database design. *ACM Transactions on Database Systems*, 11(2):159–185, June 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-2/p159-mendelson/p159-mendelson.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-2/p159-mendelson/; http://www.acm.org/pubs/toc/Abstracts/tods/5678.html.

Ginsburg:1986:CTS

[268] Seymour Ginsburg and Katsumi Tanaka. Computation-tuple sequences and object histories. *ACM Transactions on Database Systems*, 11(2):186–212, June 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-2/p186-ginsburg/p186-ginsburg.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-2/p186-ginsburg/; http://www.acm.org/pubs/toc/Abstracts/tods/5924.html.

Garg:1986:OPK

[269] Anil K. Garg and C. C. Gotlieb. Order-preserving key transformations. *ACM Transactions on Database Systems*, 11(2):213–234, June 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-2/p213-garg/p213-garg.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-2/p213-garg/; http://www.acm.org/pubs/toc/Abstracts/tods/5923.html.

Shapiro:1986:JPD

[270] Leonard D. Shapiro. Join processing in database systems with large main memories. *ACM Transactions on Database Systems*, 11(3):239–264, September 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-3/p239-shapiro/p239-shapiro.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-3/p239-shapiro/; http://www.acm.org/pubs/toc/Abstracts/tods/6315.html.

Gavish:1986:SQO

[271] Bezalel Gavish and Arie Segev. Set query optimization in distributed database systems. *ACM Transactions on Database Systems*, 11(3):265–293, September 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-3/p265-gavish/p265-gavish.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-3/p265-gavish/; http://www.acm.org/pubs/toc/Abstracts/tods/6488.html.

Lafortune:1986:STM

[272] Stéphane Lafortune and Eugene Wong. A state transition model for distributed query processing. *ACM Transactions on Database Systems*, 11(3):294–322, September 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-3/p294-lafortune/p294-lafortune.pdf; http://www.acm.org/pubs/

citations/journals/tods/1986-11-3/p294-lafortune/; http://www.acm.org/pubs/toc/Abstracts/tods/6460.html.

Lozinskii:1986:POI

[273] Eliezer L. Lozinskii. A problem-oriented inferential database system. *ACM Transactions on Database Systems*, 11(3):323–356, September 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-3/p323-lozinskii/p323-lozinskii.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-3/p323-lozinskii/; http://www.acm.org/pubs/toc/Abstracts/tods/6419.html.

Osborn:1986:DRD

[274] Sylvia L. Osborn and T. E. Heaven. The design of a relational database system with abstract data types for domains. *ACM Transactions on Database Systems*, 11(3):357–373, September 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-3/p357-osborn/p357-osborn.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-3/p357-osborn/; http://www.acm.org/pubs/toc/Abstracts/tods/6461.html.

Gawlick:1986:RIW

[275] Dieter Gawlick. Report on the international workshop on high-performance transaction systems. *ACM Transactions on Database Systems*, 11(4):375–377, December 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-4/p375-gawlick/p375-gawlick.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-4/p375-gawlick/; http://www.acm.org/pubs/toc/Abstracts/tods/17346.html.

Mohan:1986:TMR

[276] C. Mohan, B. Lindsay, and R. Obermarck. Transaction management in the R* distributed database management system. *ACM Transactions on Database Systems*, 11(4):378–396, December 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-4/p378-mohan/p378-mohan.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-4/p378-mohan/; http://www.acm.org/pubs/toc/Abstracts/tods/7266.html.

Bayer:1986:CTR

[277] Rudolf Bayer. Consistency of transactions and random batch. *ACM Transactions on Database Systems*, 11(4):397–404, December 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-4/p397-bayer/p397-bayer.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-4/p397-bayer/; http://www.acm.org/pubs/toc/Abstracts/tods/214287.html.

ONeil:1986:ETM

[278] Patrick E. O'Neil. The Escrow trans-

actional method. *ACM Transactions on Database Systems*, 11(4):405–430, December 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-4/p405-o_neil/p405-o_neil.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-4/p405-o_neil/; http://www.acm.org/pubs/toc/Abstracts/tods/7265.html.

Hsu:1986:PTP

[279] Meichun Hsu and Arvola Chan. Partitioned two-phase locking. *ACM Transactions on Database Systems*, 11(4):431–446, December 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-4/p431-hsu/p431-hsu.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-4/p431-hsu/; http://www.acm.org/pubs/toc/Abstracts/tods/7477.html.

Luk:1986:EEL

[280] W. S. Luk and Steve Kloster. ELFS: English language from SQL. *ACM Transactions on Database Systems*, 11(4):447–472, December 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sacco:1986:BMR

[281] Giovanni Maria Sacco and Mario Schkolnick. Buffer management in relational database systems. *ACM Transactions on Database Systems*, 11(4):473–498, December 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-4/p473-sacco/p473-sacco.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-4/p473-sacco/; http://www.acm.org/pubs/toc/Abstracts/tods/7336.html.

Ariav:1986:TOD

[282] Gad Ariav. A temporally oriented data model. *ACM Transactions on Database Systems*, 11(4):499–527, December 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1986-11-4/p499-ariav/p499-ariav.pdf; http://www.acm.org/pubs/citations/journals/tods/1986-11-4/p499-ariav/; http://www.acm.org/pubs/toc/Abstracts/tods/7350.html.

Albano:1986:OSG

[283] Antonio Albano, S. Alfo, Luca Cardelli, and Renzo Orsini. An overview of SIDEREUS: a graphical database schema editor for Galileo. *ACM Transactions on Database Systems*, 11(??):568–571, ???? 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Durand:1986:FMS

[284] Charles Durand. Forward multidimensional search with applications to information retrieval. *ACM Transactions on Database Systems*, ??(??):??, September 1986. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). Submitted.

Spyratos:1987:PMD

[285] Nicolas Spyratos. The partition model: a deductive database model. *ACM*

Transactions on Database Systems, 12(1):1–37, March 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-1/p1-spyratos/p1-spyratos.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-1/p1-spyratos/; http://www.acm.org/pubs/toc/Abstracts/tods/22718.html. Also published in/as: Institut National de la Recherche en Informatique et Automatique, TR-286, Apr. 1983.

Wu:1987:ASM

[286] C. T. Wu and Walter A. Burkhard. Associative searching in multiple storage units. *ACM Transactions on Database Systems*, 12(1):38–64, March 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-1/p38-wu/p38-wu.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-1/p38-wu/; http://www.acm.org/pubs/toc/Abstracts/tods/12048.html. Discusses interpolation hashing, a multidimensional variant of linear hashing.

Lomet:1987:PEF

[287] David B. Lomet. Partial expansions for file organizations with an index. *ACM Transactions on Database Systems*, 12(1):65–84, March 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-1/p65-lomet/p65-lomet.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-1/p65-lomet/; http://www.acm.org/pubs/toc/Abstracts/tods/12049.html.

Fedorowicz:1987:DPE

[288] Jane Fedorowicz. Database performance evaluation in an indexed file environment. *ACM Transactions on Database Systems*, 12(1):85–110, March 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-1/p85-fedorowicz/p85-fedorowicz.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-1/p85-fedorowicz/; http://www.acm.org/pubs/toc/Abstracts/tods/13675.html.

Ozsoyoglu:1987:NNF

[289] Z. Meral Özsoyoğlu and Li-Yan Yuan. A new normal form for nested relations. *ACM Transactions on Database Systems*, 12(1):111–136, March 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-1/p111-ozsoyoglu/p111-ozsoyoglu.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-1/p111-ozsoyoglu/; http://www.acm.org/pubs/toc/Abstracts/tods/13676.html.

Christodoulakis:1987:ARP

[290] Stavros Christodoulakis. Analysis of retrieval performance for records and objects using optical disk technology. *ACM Transactions on Database Systems*, 12(2):137–169, June 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.

org/pubs/articles/journals/tods/1987-12-2/p137-christodoulakis/p137-christodoulakis.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-2/p137-christodoulakis/; http://www.acm.org/pubs/toc/Abstracts/tods/23015.html.

Herlihy:1987:DQA

[291] Maurice Herlihy. Dynamic quorum adjustment for partitioned data. *ACM Transactions on Database Systems*, 12(2):170–194, June 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-2/p170-herlihy/p170-herlihy.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-2/p170-herlihy/; http://www.acm.org/pubs/toc/Abstracts/tods/22953.html.

Ellis:1987:CLH

[292] Carla Schlatter Ellis. Concurrency in linear hashing. *ACM Transactions on Database Systems*, 12(2):195–217, June 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-2/p195-ellis/p195-ellis.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-2/p195-ellis/; http://www.acm.org/pubs/toc/Abstracts/tods/22954.html. Also published in [1107].

Valduriez:1987:JI

[293] Patrick Valduriez. Join indices. *ACM Transactions on Database Systems*, 12(2):218–246, June 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-2/p218-valduriez/p218-valduriez.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-2/p218-valduriez/; http://www.acm.org/pubs/toc/Abstracts/tods/22955.html. Compares join indices with inverted indices, clustered indices, B+ trees, linked lists, and hybrid hash techniques.

Snodgrass:1987:TQL

[294] Richard Snodgrass. The Temporal Query Language TQUEL. *ACM Transactions on Database Systems*, 12(2):247–298, June 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-2/p247-snodgrass/p247-snodgrass.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-2/p247-snodgrass/; http://www.acm.org/pubs/toc/Abstracts/tods/22956.html.

Wong:1987:MIR

[295] S. K. M. Wong, W. Ziarko, V. V. Raghavan, and P. C. N. Wong. On modeling of information retrieval concepts in vector spaces. *ACM Transactions on Database Systems*, 12(2):299–321, June 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-2/p299-wong/p299-wong.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-2/p299-wong/; http://www.acm.org/pubs/toc/Abstracts/tods/22957.html.

Rybinski:1987:FOL

[296] Henryk Rybiński. On first-order-logic databases. *ACM Transactions on Database Systems*, 12(3):325–349, September 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-3/p325-rybinski/p325-rybinski.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-3/p325-rybinski/; http://www.acm.org/pubs/toc/Abstracts/tods/27630.html.

Stonebraker:1987:EDS

[297] Michael Stonebraker, Jeff Anton, and Eric Hanson. Extending a database system with procedures. *ACM Transactions on Database Systems*, 12(3):350–376, September 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-3/p350-stonebraker/p350-stonebraker.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-3/p350-stonebraker/; http://www.acm.org/pubs/toc/Abstracts/tods/27631.html. Also published in/as: UCB/ERL memo M85/59, 1985.

Ozsoyoglu:1987:RMM

[298] Z. Meral Özsoyoğlu and Li-Yan Yuan. Reduced MVDs and minimal covers. *ACM Transactions on Database Systems*, 12(3):377–394, September 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1987-12-3/p377-ozsoyoolu/; http://www.acm.org/pubs/toc/Abstracts/tods/214286.html.

Faloutsos:1987:OSE

[299] Christos Faloutsos and Stavros Christodoulakis. Optimal signature extraction and information loss. *ACM Transactions on Database Systems*, 12(3):395–428, September 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-3/p395-faloutsos/p395-faloutsos.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-3/p395-faloutsos/; http://www.acm.org/pubs/toc/Abstracts/tods/214285.html.

Ibaraki:1987:SC

[300] Toshihide Ibaraki, Tiko Kameda, and Toshimi Minoura. Serializability with constraints. *ACM Transactions on Database Systems*, 12(3):429–452, September 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-3/p429-ibaraki/p429-ibaraki.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-3/p429-ibaraki/; http://www.acm.org/pubs/toc/Abstracts/tods/214284.html.

Wolfson:1987:OLC

[301] Ouri Wolfson. The overhead of locking (and commit) protocols in distributed databases. *ACM Transactions on Database Systems*, 12(3):453–471, September 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644

(electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-3/p453-wolfson/p453-wolfson.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-3/p453-wolfson/; http://www.acm.org/pubs/toc/Abstracts/tods/28053.html.

Su:1987:CBD

[302] Stanley Y. W. Su, Jozo Dujmovic, D. S. Batory, S. B. Navathe, and Richard Elnicki. A cost-benefit decision model: Analysis, comparison, and selection of data management systems. *ACM Transactions on Database Systems*, 12(3):472–520, September 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-3/p472-su/p472-su.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-3/p472-su/; http://www.acm.org/pubs/toc/Abstracts/tods/33403.html.

Keller:1987:CBS

[303] Arthur M. Keller. Comment on Bancilhon and Spyratos' "Update semantics and relational views". *ACM Transactions on Database Systems*, 12(3):521–523, September 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-3/p521-keller/p521-keller.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-3/p521-keller/; http://www.acm.org/pubs/toc/Abstracts/tods/214296.html. See [138].

Abiteboul:1987:IFS

[304] Serge Abiteboul and Richard Hull. IFO: a formal semantic database model. *ACM Transactions on Database Systems*, 12(4):525–565, December 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-4/p525-abiteboul/p525-abiteboul.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-4/p525-abiteboul/; http://www.acm.org/pubs/toc/Abstracts/tods/32205.html. Also published in/as: ACM SIGACT-SIGMOD Symp. on Principles of Database Systems, 1984 (short version). Also published in/as: USC CSD, TR-84-304, Apr. 1984.

Ozsoyoglu:1987:ERA

[305] G. Özsoyoğlu, Z. M. Özsoyoğlu, and V. Matos. Extending relational algebra and relational calculus with set-valued attributes and aggregate functions. *ACM Transactions on Database Systems*, 12(4):566–592, December 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1987-12-4/p566-ozsoyoglu/p566-ozsoyoglu.pdf; http://www.acm.org/pubs/citations/journals/tods/1987-12-4/p566-ozsoyoglu/; http://www.acm.org/pubs/toc/Abstracts/tods/32219.html.

Palley:1987:URM

[306] Michael A. Palley and Jeffrey S. Simonoff. The use of regression methodology for the compromise of confidential information in statisti-

cal databases. *ACM Transactions on Database Systems*, 12(4):593–608, December 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `http://www.acm.org/pubs/articles/journals/tods/1987-12-4/p593-palley/p593-palley.pdf`; `http://www.acm.org/pubs/citations/journals/tods/1987-12-4/p593-palley/`; `http://www.acm.org/pubs/toc/Abstracts/tods/42174.html`.

Agrawal:1987:CCP

[307] Rakesh Agrawal, Michael J. Carey, and Miron Livny. Concurrency control performance modeling: Alternatives and implications. *ACM Transactions on Database Systems*, 12(4):609–654, December 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `http://www.acm.org/pubs/articles/journals/tods/1987-12-4/p609-agrawal/p609-agrawal.pdf`; `http://www.acm.org/pubs/citations/journals/tods/1987-12-4/p609-agrawal/`; `http://www.acm.org/pubs/toc/Abstracts/tods/32220.html`. Also published in/as: ACM SIGMOD Conf. on the Management of Data, 1985.

Sacks-Davis:1987:MAM

[308] R. Sacks-Davis, A. Kent, and K. Ramamohanarao. Multikey access methods based on superimposed coding techniques. *ACM Transactions on Database Systems*, 12(4):655–696, December 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `http://www.acm.org/pubs/articles/journals/tods/1987-12-4/p655-sacks-davis/p655-sacks-davis.pdf`; `http://www.acm.org/pubs/citations/journals/tods/1987-12-4/p655-sacks-davis/`; `http://www.acm.org/pubs/toc/Abstracts/tods/32222.html`.

Elhardt:1987:SQO

[309] K. Elhardt. Support for query optimization by optimal predicate splitting. *ACM Transactions on Database Systems*, ??(??):??, March 1987. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). Accepted.

Vianu:1988:DFO

[310] Victor Vianu. A dynamic framework for object projection views. *ACM Transactions on Database Systems*, 13(1):1–22, March 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `http://www.acm.org/pubs/articles/journals/tods/1988-13-1/p1-vianu/p1-vianu.pdf`; `http://www.acm.org/pubs/citations/journals/tods/1988-13-1/p1-vianu/`; `http://www.acm.org/pubs/toc/Abstracts/tods/42202.html`.

Sellis:1988:MQO

[311] Timos K. Sellis. Multiple-query optimization. *ACM Transactions on Database Systems*, 13(1):23–52, March 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `http://www.acm.org/pubs/articles/journals/tods/1988-13-1/p23-sellis/p23-sellis.pdf`; `http://www.acm.org/pubs/citations/journals/tods/1988-13-1/p23-sellis/`; `http://www.acm.org/pubs/toc/Abstracts/tods/42203.html`.

Shasha:1988:CSS

[312] Dennis Shasha and Nathan Goodman. Concurrent search structure algorithms. *ACM Transactions on Database Systems*, 13(1):53–90, March 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-1/p53-shasha/p53-shasha.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-1/p53-shasha/; http://www.acm.org/pubs/toc/Abstracts/tods/42204.html.

Finkelstein:1988:PDD

[313] S. J. Finkelstein, M. Schkolnick, and P. Tiberio. Physical database design for relational databases. *ACM Transactions on Database Systems*, 13(1):91–128, March 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-1/p91-finkelstein/p91-finkelstein.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-1/p91-finkelstein/; http://www.acm.org/pubs/toc/Abstracts/tods/42205.html. Also published in/as: IBM Research Report No. RJ5034, Nov. 1986, preprint IBM Aug. 1985.

Raju:1988:FFD

[314] K. V. S. V. N. Raju and Arun K. Majumdar. Fuzzy functional dependencies and lossless join decomposition of fuzzy relational database systems. *ACM Transactions on Database Systems*, 13(2):129–166, June 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-2/p129-raju/p129-raju.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-2/p129-raju/; http://www.acm.org/pubs/toc/Abstracts/tods/42344.html.

Winslett:1988:MBA

[315] Marianne Winslett. A model-based approach to updating databases with incomplete information. *ACM Transactions on Database Systems*, 13(2):167–196, June 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-2/p167-winslett/p167-winslett.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-2/p167-winslett/; http://www.acm.org/pubs/toc/Abstracts/tods/42386.html.

Eich:1988:DCC

[316] Margaret H. Eich and David L. Wells. Database concurrency control using data flow graphs. *ACM Transactions on Database Systems*, 13(2):197–227, June 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-2/p197-eich/p197-eich.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-2/p197-eich/; http://www.acm.org/pubs/toc/Abstracts/tods/42345.html.

Batory:1988:ICE

[317] D. S. Batory, T. Y. Leung, and T. E. Wise. Implementation concepts for an extensible data model and

data language. *ACM Transactions on Database Systems*, 13(3):231–262, September 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-3/p231-batory/p231-batory.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-3/p231-batory/; http://www.acm.org/pubs/toc/Abstracts/tods/45062.html. Also published in/as: Un. Texas, TR-86-24, Oct. 1986.

Apers:1988:DAD

[318] Peter M. G. Apers. Data allocation in distributed database systems. *ACM Transactions on Database Systems*, 13(3):263–304, September 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-3/p263-apers/p263-apers.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-3/p263-apers/; http://www.acm.org/pubs/toc/Abstracts/tods/45063.html.

Storey:1988:MCU

[319] Veda C. Storey and Robert C. Goldstein. A methodology for creating user views in database design. *ACM Transactions on Database Systems*, 13(3):305–338, September 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-3/p305-storey/p305-storey.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-3/p305-storey/; http://www.acm.org/pubs/toc/Abstracts/tods/45064.html.

Diederich:1988:NMF

[320] Jim Diederich and Jack Milton. New methods and fast algorithms for database normalization. *ACM Transactions on Database Systems*, 13(3):339–365, September 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-3/p339-diederich/p339-diederich.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-3/p339-diederich/; http://www.acm.org/pubs/toc/Abstracts/tods/44499.html. Also published in/as: UCD, Math, revised Jun. 1987.

Larson:1988:LHS

[321] Per-Åke Larson. Linear hashing with separators — A dynamic hashing scheme achieving one-access retrieval. *ACM Transactions on Database Systems*, 13(3):366–388, September 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-3/p366-larson/p366-larson.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-3/p366-larson/; http://www.acm.org/pubs/toc/Abstracts/tods/44500.html.

Roth:1988:EAC

[322] Mark A. Roth, Henry F. Korth, and Abraham Silberschatz. Extended algebra and calculus for nested relational databases. *ACM Transactions on Database Systems*, 13(4):389–417, December 1988. CODEN ATDSD3.

ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-4/p389-roth/p389-roth.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-4/p389-roth/; http://www.acm.org/pubs/toc/Abstracts/tods/49347.html. See comment [403].

Gadia:1988:HRM

[323] Shashi K. Gadia. A homogeneous relational model and query languages for temporal databases. *ACM Transactions on Database Systems*, 13(4): 418–448, December 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-4/p418-gadia/p418-gadia.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-4/p418-gadia/; http://www.acm.org/pubs/toc/Abstracts/tods/50065.html.

Brosda:1988:URR

[324] Volkert Brosda and Gottfried Vossen. Update and retrieval in a relational database through a universal schema interface. *ACM Transactions on Database Systems*, 13(4):449–485, December 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-4/p449-brosda/p449-brosda.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-4/p449-brosda/; http://www.acm.org/pubs/toc/Abstracts/tods/49884.html.

Gottlob:1988:PUS

[325] Georg Gottlob, Paolo Paolini, and Roberto Zicari. Properties and update semantics of consistent views. *ACM Transactions on Database Systems*, 13 (4):486–524, December 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-4/p486-gottlob/p486-gottlob.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-4/p486-gottlob/; http://www.acm.org/pubs/toc/Abstracts/tods/50068.html.

Lomet:1988:SBD

[326] David B. Lomet. A simple bounded disorder file organization with good performance. *ACM Transactions on Database Systems*, 13(4):525–551, December 1988. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1988-13-4/p525-lomet/p525-lomet.pdf; http://www.acm.org/pubs/citations/journals/tods/1988-13-4/p525-lomet/; http://www.acm.org/pubs/toc/Abstracts/tods/50067.html.

Freytag:1989:TRQ

[327] Johann Christoph Freytag and Nathan Goodman. On the translation of relational queries into iterative programs. *ACM Transactions on Database Systems*, 14(1):1–27, March 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-1/p1-freytag/p1-freytag.

pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-1/p1-freytag/.

Ahad:1989:ECP

[328] Rafiul Ahad, K. V. Bapa Rao, and Dennis McLeod. On estimating the cardinality of the projection of a database relation. *ACM Transactions on Database Systems*, 14(1):28–40, March 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-1/p28-ahad/p28-ahad.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-1/p28-ahad/; http://www.acm.org/pubs/toc/Abstracts/tods/62034.html.

Ramesh:1989:VDT

[329] R. Ramesh, A. J. G. Babu, and J. Peter Kincaid. Variable-depth trie index optimization: Theory and experimental results. *ACM Transactions on Database Systems*, 14(1):41–74, March 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-1/p41-ramesh/p41-ramesh.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-1/p41-ramesh/; http://www.acm.org/pubs/toc/Abstracts/tods/77249.html.

Gladney:1989:DRD

[330] H. M. Gladney. Data replicas in distributed information services. *ACM Transactions on Database Systems*, 14(1):75–97, March 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-1/p75-gladney/p75-gladney.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-1/p75-gladney/; http://www.acm.org/pubs/toc/Abstracts/tods/62035.html. *Reviews*: Computing Reviews, Vol. 30, No. 11, November 1989.

McLeish:1989:FRS

[331] Mary McLeish. Further results on the security of partitioned dynamic statistical databases. *ACM Transactions on Database Systems*, 14(1):98–113, March 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-1/p98-mcleish/p98-mcleish.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-1/p98-mcleish/; http://www.acm.org/pubs/toc/Abstracts/tods/62036.html.

Bic:1989:ADD

[332] Lubomir Bic and Robert L. Hartmann. AGM: a dataflow database machine. *ACM Transactions on Database Systems*, 14(1):114–146, March 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-1/p114-bic/p114-bic.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-1/p114-bic/; http://www.acm.org/pubs/toc/Abstracts/tods/62037.html.

Yu:1989:FER

[333] C. T. Yu, W. Meng, and S. Park. A framework for effective retrieval. *ACM*

Transactions on Database Systems, 14(2):147–167, June 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-2/p147-yu/p147-yu.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-2/p147-yu/; http://www.acm.org/pubs/toc/Abstracts/tods/63519.html.

Embley:1989:NNF

[334] David W. Embley. NFQL: The Natural Forms Query Language. *ACM Transactions on Database Systems*, 14(2):168–211, June 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-2/p168-embley/p168-embley.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-2/p168-embley/; http://www.acm.org/pubs/toc/Abstracts/tods/64125.html. Also published in/as: Brigham Young Un., TR-CS-87-6, Mar. 1987.

Atzeni:1989:EOS

[335] Paolo Atzeni and Edward P. F. Chan. Efficient optimization of simple chase join expressions. *ACM Transactions on Database Systems*, 14(2):212–230, June 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-2/p212-atzeni/p212-atzeni.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-2/p212-atzeni/; http://www.acm.org/pubs/toc/Abstracts/tods/63520.html.

Ramakrishna:1989:FOU

[336] M. V. Ramakrishna and Per-Åke Larson. File organization using composite perfect hashing. *ACM Transactions on Database Systems*, 14(2):231–263, June 1, 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-2/p231-ramakrishna/p231-ramakrishna.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-2/p231-ramakrishna/; http://www.acm.org/pubs/toc/Abstracts/tods/63521.html.

ElAbaddi:1989:MAP

[337] Amr El Abaddi and Sam Toueg. Maintaining availability in partitioned replicated databases. *ACM Transactions on Database Systems*, 14(2):264–290, June 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-2/p264-abbadi/p264-abbadi.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-2/p264-abbadi/; http://www.acm.org/pubs/toc/Abstracts/tods/63501.html. Also published in/as: ACM SIGACT-SIGMOD Symp. on Principles of Database Systems, Cambridge MA, Mar. 1986.

Hudson:1989:CSA

[338] Scott E. Hudson and Roger King. Cactis: a self-adaptive, concurrent implementation of an object-oriented database management system. *ACM Transactions on Database Systems*, 14(3):291–321, September 1989. CODEN ATDSD3.

ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-3/p291-hudson/p291-hudson.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-3/p291-hudson/; http://www.acm.org/pubs/toc/Abstracts/tods/68013.html.

Sheard:1989:AVD

[339] Tim Sheard and David Stemple. Automatic verification of database transaction safety. *ACM Transactions on Database Systems*, 14(3):322–368, September 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-3/p322-sheard/p322-sheard.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-3/p322-sheard/; http://www.acm.org/pubs/toc/Abstracts/tods/68014.html. Also published in/as: U. Mass, COINS TR-88-29, Apr. 1988, also TR-86-30, 1986.

Blakeley:1989:UDR

[340] José A. Blakeley, Neil Coburn, and Per-Åke Larson. Updating derived relations: Detecting irrelevant and autonomously computable updates. *ACM Transactions on Database Systems*, 14(3):369–400, September 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-3/p369-blakeley/p369-blakeley.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-3/p369-blakeley/; http://www.acm.org/pubs/toc/Abstracts/tods/68015.html. Also published in/as: Indiana Un., TR-235, Nov. 1987. Also published in [1108].

Mackert:1989:ISU

[341] Lothar F. Mackert and Guy M. Lohman. Index scans using a finite LRU buffer: a validated I/O model. *ACM Transactions on Database Systems*, 14(3):401–424, September 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-3/p401-mackert/p401-mackert.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-3/p401-mackert/; http://www.acm.org/pubs/toc/Abstracts/tods/68016.html. Also published in/as: IBM, TR-RC-4836, Sep. 1985.

Manolopoulos:1989:PTH

[342] Y. Manolopoulos and J. G. Kollias. Performance of a two-headed disk system when serving database queries under the scan policy. *ACM Transactions on Database Systems*, 14(3):425–442, September 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-3/p425-manolopoulos/p425-manolopoulos.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-3/p425-manolopoulos/; http://www.acm.org/pubs/toc/Abstracts/tods/68017.html.

Dreizen:1989:ISR

[343] Howard M. Dreizen and Shi-Kuo Chang. Imprecise schema: a rationale for relations with embedded

subrelations. *ACM Transactions on Database Systems*, 14(4):447–479, December 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-4/p447-dreizen/p447-dreizen.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-4/p447-dreizen/; http://www.acm.org/pubs/toc/Abstracts/tods/76903.html.

Motro:1989:IVC

[344] Amihai Motro. Integrity = validity + completeness. *ACM Transactions on Database Systems*, 14(4):480–502, December 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-4/p480-motro/p480-motro.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-4/p480-motro/; http://www.acm.org/pubs/toc/Abstracts/tods/76904.html.

Farrag:1989:USK

[345] Abdel Aziz Farrag and M. Tamer Özsu. Using semantic knowledge of transactions to increase concurrency. *ACM Transactions on Database Systems*, 14(4):503–525, December 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-4/p503-farrag/p503-farrag.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-4/p503-farrag/; http://www.acm.org/pubs/toc/Abstracts/tods/76905.html. Accepted. Also published in/as: Un. Alberta, DCS, TR-85-11, Jul. 1985.

Ozsoyoglu:1989:QPT

[346] Gultekin Özsoyoğlu, Victor Matos, and Z. Meral Özsoyoğlu. Query processing techniques in the summary-table-by-example database query language. *ACM Transactions on Database Systems*, 14(4):526–573, December 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-4/p526-ozsoyoglu/p526-ozsoyoglu.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-4/p526-ozsoyoglu/; http://www.acm.org/pubs/toc/Abstracts/tods/76906.html.

Grady:1989:EJO

[347] Danièle Grady and Claude Puech. On the effect of join operations on relation sizes. *ACM Transactions on Database Systems*, 14(4):574–603, December 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-4/p574-grady/p574-grady.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-4/p574-grady/; http://www.acm.org/pubs/toc/Abstracts/tods/76907.html.

Lang:1989:UAB

[348] Sheau-Dong Lang, James R. Driscoll, and Jiann H. Jou. A unified analysis of batched searching of sequential and tree-structured files. *ACM Transactions on Database Systems*, 14(4):604–618, December 1989. CODEN

ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1989-14-4/p604-lang/p604-lang.pdf; http://www.acm.org/pubs/citations/journals/tods/1989-14-4/p604-lang/; http://www.acm.org/pubs/toc/Abstracts/tods/76908.html.

Motro:1989:QDK

[349] A. Motro and Q. Yuan. Querying database knowledge. *ACM Transactions on Database Systems*, 14(4):??, December 1989. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). Also published in [1110].

Liu:1990:IMI

[350] Ken-Chih C. Liu and Rajshekhar Sunderraman. Indefinite and maybe information in relational databases. *ACM Transactions on Database Systems*, 15(1):1–39, March 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-1/p1-liu/p1-liu.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-1/p1-liu/; http://www.acm.org/pubs/toc/Abstracts/tods/77644.html.

Langerak:1990:VUR

[351] Rom Langerak. View updates in relational databases with an independent scheme. *ACM Transactions on Database Systems*, 15(1):40–66, March 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-1/p40-langerak/p40-langerak.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-1/p40-langerak/; http://www.acm.org/pubs/toc/Abstracts/tods/77645.html.

Whang:1990:QOM

[352] Kyu-Young Y. Whang and Ravi Krishnamurthy. Query optimization in a memory-resident domain relational calculus database system. *ACM Transactions on Database Systems*, 15(1):67–95, March 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-1/p67-whang/p67-whang.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-1/p67-whang/; http://www.acm.org/pubs/toc/Abstracts/tods/77646.html.

Herlihy:1990:AVA

[353] Maurice Herlihy. Apologizing versus asking permission: Optimistic concurrency control for abstract data types. *ACM Transactions on Database Systems*, 15(1):96–124, March 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-1/p96-herlihy/p96-herlihy.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-1/p96-herlihy/; http://www.acm.org/pubs/toc/Abstracts/tods/77647.html.

Wald:1990:EAF

[354] Joseph A. Wald and Paul G. Sorenson. Explaining ambiguity in a formal query language. *ACM Transactions on Database Systems*, 15(2):125–161, June 1990. CODEN ATDSD3.

ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-2/p125-wald/p125-wald.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-2/p125-wald/; http://www.acm.org/pubs/toc/Abstracts/tods/78923.html.

Chakravarthy:1990:LBA

[355] Upen S. Chakravarthy, John Grant, and Jack Minker. Logic-based approach to semantic query optimization. *ACM Transactions on Database Systems*, 15(2):162–207, June 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-2/p162-chakravarthy/p162-chakravarthy.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-2/p162-chakravarthy/; http://www.acm.org/pubs/toc/Abstracts/tods/78924.html.

Whang:1990:LTP

[356] Kyu-Young Whang, Brad T. Vander-Zanden, and Howard M. Taylor. A linear-time probabilistic counting algorithm for database applications. *ACM Transactions on Database Systems*, 15(2):208–229, June 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-2/p208-whang/p208-whang.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-2/p208-whang/; http://www.acm.org/pubs/toc/Abstracts/tods/78925.html. A probabilistic technique called linear counting, based on hashing, for counting the number of unique values in the presence of duplicates is presented in this paper.

Jajodia:1990:DVA

[357] Sushil Jajodia and David Mutchler. Dynamic voting algorithms for maintaining the consistency of a replicated database. *ACM Transactions on Database Systems*, 15(2):230–280, June 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-2/p230-jajodia/p230-jajodia.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-2/p230-jajodia/; http://www.acm.org/pubs/toc/Abstracts/tods/78926.html.

Dasgupta:1990:FCC

[358] Partha Dasgupta and Zvi M. Kedem. The five-color concurrency control protocol: Non-two-phase locking in general databases. *ACM Transactions on Database Systems*, 15(2):281–307, June 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-2/p281-dasgupta/p281-dasgupta.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-2/p281-dasgupta/; http://www.acm.org/pubs/toc/Abstracts/tods/78927.html.

Moore:1990:DTA

[359] James C. Moore, William B. Richmond, and Andrew B. Whinston. A decision-theoretic approach to information retrieval. *ACM Transactions on Database Systems*, 15(3):311–340,

September 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-3/p311-moore/p311-moore.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-3/p311-moore/; http://www.acm.org/pubs/toc/Abstracts/tods/88597.html.

Westland:1990:SOC

[360] J. Christopher Westland. Scaling up output capacity and performance results from information systems prototypes. *ACM Transactions on Database Systems*, 15(3):341–358, September 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-3/p341-westland/p341-westland.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-3/p341-westland/; http://www.acm.org/pubs/toc/Abstracts/tods/87943.html.

Alonso:1990:DCI

[361] Rafael Alonso, Daniel Barbara, and Héctor García-Molina. Data caching issues in an information retrieval system. *ACM Transactions on Database Systems*, 15(3):359–384, September 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-3/p359-alonso/p359-alonso.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-3/p359-alonso/; http://www.acm.org/pubs/toc/Abstracts/tods/87848.html.

Kifer:1990:CTQ

[362] Michael Kifer and Eliezer L. Lozinskii. On compile-time query optimization in deductive databases by means of static filtering. *ACM Transactions on Database Systems*, 15(3):385–426, September 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-3/p385-kifer/p385-kifer.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-3/p385-kifer/; http://www.acm.org/pubs/toc/Abstracts/tods/87121.html.

Agrawal:1990:DTC

[363] Rakesh Agrawal, Shaul Dar, and H. V. Jagadish. Direct transitive closure algorithms: Design and performance evaluation. *ACM Transactions on Database Systems*, 15(3):427–458, September 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-3/p427-agrawal/p427-agrawal.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-3/p427-agrawal/; http://www.acm.org/pubs/toc/Abstracts/tods/88888.html.

Zhang:1990:NSC

[364] Weining Zhang, Clement T. Yu, and Daniel Troy. Necessary and sufficient conditions to linearize doubly recursive programs in logic databases. *ACM Transactions on Database Systems*, 15(3):459–482, September 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644

(electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-3/p459-zhang/p459-zhang.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-3/p459-zhang/; http://www.acm.org/pubs/toc/Abstracts/tods/89237.html.

Can:1990:CEC

[365] Fazli Can and Esen A. Ozkarahan. Concepts and effectiveness of the cover-coefficient-based clustering methodology for text databases. *ACM Transactions on Database Systems*, 15(4): 483–517, December 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-4/p483-can/p483-can.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-4/p483-can/; http://www.acm.org/pubs/toc/Abstracts/tods/99938.html.

Nakano:1990:TOR

[366] Ryohei Nakano. Translation with optimization from relational calculus to relational algebra having aggregate functions. *ACM Transactions on Database Systems*, 15(4):518–557, December 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-4/p518-nakano/p518-nakano.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-4/p518-nakano/; http://www.acm.org/pubs/toc/Abstracts/tods/99943.html.

Jagadish:1990:CTM

[367] H. V. Jagadish. A compression technique to materialize transitive closure. *ACM Transactions on Database Systems*, 15(4):558–598, December 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-4/p558-jagadish/p558-jagadish.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-4/p558-jagadish/; http://www.acm.org/pubs/toc/Abstracts/tods/99944.html.

Omiecinski:1990:PAR

[368] Edward Omiecinski and Peter Scheuermann. A parallel algorithm for record clustering. *ACM Transactions on Database Systems*, 15(4):599–624, December 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-4/p599-omiecinski/p599-omiecinski.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-4/p599-omiecinski/; http://www.acm.org/pubs/toc/Abstracts/tods/99947.html.

Lomet:1990:HTM

[369] David B. Lomet and Betty Salzberg. The hB-Tree: a multiattribute indexing method with good guaranteed performance. *ACM Transactions on Database Systems*, 15(4):625–658, December 1990. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1990-15-4/p625-lomet/p625-lomet.pdf; http://www.acm.org/pubs/citations/journals/tods/1990-15-4/p625-lomet/; http://www.acm.

org/pubs/toc/Abstracts/tods/99949.html.

Abiteboul:1991:RBL

[370] Serge Abiteboul and Stéphane Grumbach. A rule-based language with functions and sets. *ACM Transactions on Database Systems*, 16(1):1–30, March 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-1/p1-abiteboul/p1-abiteboul.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-1/p1-abiteboul/; http://www.acm.org/pubs/toc/Abstracts/tods/103141.html.

Mendelzon:1991:FDH

[371] Alberto O. Mendelzon and Peter T. Wood. Functional dependencies in Horn clause queries. *ACM Transactions on Database Systems*, 16(1):31–55, March 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-1/p31-mendelzon/p31-mendelzon.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-1/p31-mendelzon/; http://www.acm.org/pubs/toc/Abstracts/tods/103142.html.

Meghini:1991:COF

[372] C. Meghini and C. Thanos. The complexity of operations on a fragmented relation. *ACM Transactions on Database Systems*, 16(1):56–87, March 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-1/p56-meghini/p56-meghini.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-1/p56-meghini/; http://www.acm.org/pubs/toc/Abstracts/tods/103143.html.

Rabitti:1991:MAN

[373] Fausto Rabitti, Elisa Bertino, Won Kim, and Darrell Woelk. A model of authorization for next-generation database systems. *ACM Transactions on Database Systems*, 16(1):88–131, March 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-1/p88-rabitti/p88-rabitti.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-1/p88-rabitti/; http://www.acm.org/pubs/toc/Abstracts/tods/103144.html.

Weikum:1991:PRS

[374] Gerhard Weikum. Principles and realization strategies of multilevel transaction management. *ACM Transactions on Database Systems*, 16(1):132–180, March 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-1/p132-weikum/p132-weikum.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-1/p132-weikum/; http://www.acm.org/pubs/toc/Abstracts/tods/103145.html.

Wolfson:1991:MPR

[375] Ouri Wolfson and Amir Milo. The multicast policy and its relationship to replicated data placement. *ACM*

Transactions on Database Systems, 16 (1):181–205, March 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-1/p181-wolfson/p181-wolfson.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-1/p181-wolfson/; http://www.acm.org/pubs/toc/Abstracts/tods/103146.html. See corrigendum in [388].

Casanova:1991:STM

[376] M. A. Casanova, A. L. Furtado, and L. Tucherman. A software tool for modular database design. *ACM Transactions on Database Systems*, 16(2):209–234, June 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-2/p209-casanova/p209-casanova.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-2/p209-casanova/; http://www.acm.org/pubs/toc/Abstracts/tods/103711.html.

VanGelder:1991:STR

[377] Allen Van Gelder and Rodney W. Topor. Safety and translation of relational calculus queries. *ACM Transactions on Database Systems*, 16(2):235–278, June 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-2/p235-van_gelder/p235-van_gelder.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-2/p235-van_gelder/; http://www.acm.org/pubs/toc/Abstracts/tods/103712.html.

Shasha:1991:OEQ

[378] Dennis Shasha and Tsong-Li L. Wang. Optimizing equijoin queries in distributed databases where relations are hash-partitioned. *ACM Transactions on Database Systems*, 16(2):279–308, June 1, 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-2/p279-shasha/p279-shasha.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-2/p279-shasha/; http://www.acm.org/pubs/toc/Abstracts/tods/103713.html.

Cesarini:1991:DHM

[379] F. Cesarini and G. Soda. A dynamic hash method with signature. *ACM Transactions on Database Systems*, 16(2):309–337, June 1, 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-2/p309-cesarini/p309-cesarini.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-2/p309-cesarini/; http://www.acm.org/pubs/toc/Abstracts/tods/103714.html.

King:1991:MRB

[380] Richard P. King, Nagui Halim, Héctor García-Molina, and Christos A. Polyzois. Management of a remote backup copy for disaster recovery. *ACM Transactions on Database Systems*, 16(2):338–368, June 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.

org/pubs/articles/journals/tods/1991-16-2/p338-king/p338-king.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-2/p338-king/; http://www.acm.org/pubs/toc/Abstracts/tods/103715.html.

Gogolla:1991:TSV

[381] Martin Gogolla and Uwe Hohenstein. Towards a semantic view of an extended entity-relationship model. *ACM Transactions on Database Systems*, 16(3):369–416, September 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-3/p369-gogolla/p369-gogolla.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-3/p369-gogolla/; http://www.acm.org/pubs/toc/Abstracts/tods/111200.html.

Sciore:1991:UAS

[382] Edward Sciore. Using annotations to support multiple kinds of versioning in an object- oriented database system. *ACM Transactions on Database Systems*, 16(3):417–438, September 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-3/p417-sciore/p417-sciore.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-3/p417-sciore/; http://www.acm.org/pubs/toc/Abstracts/tods/111205.html.

Karabeg:1991:SRC

[383] Dino Karabeg and Victor Vianu. Simplification rules and complete axiomatization for relational update transactions. *ACM Transactions on Database Systems*, 16(3):439–475, September 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-3/p439-karabeg/p439-karabeg.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-3/p439-karabeg/; http://www.acm.org/pubs/toc/Abstracts/tods/111208.html.

Yu:1991:RTR

[384] Philip S. Yu, Avraham Leff, and Yann-Hang Lee. On robust transaction routing and load sharing. *ACM Transactions on Database Systems*, 16(3):476–512, September 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-3/p476-yu/p476-yu.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-3/p476-yu/; http://www.acm.org/pubs/toc/Abstracts/tods/111210.html.

Negri:1991:FSS

[385] M. Negri, G. Pelagatti, and L. Sbattella. Formal semantics of SQL queries. *ACM Transactions on Database Systems*, 16(3):513–534, September 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-3/p513-negri/p513-negri.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-3/p513-negri/; http://www.acm.org/pubs/toc/Abstracts/tods/111212.html.

Roussopoulos:1991:IAM

[386] Nicholas Roussopoulos. An incremental access method for ViewCache: Concept, algorithms, and cost analysis. *ACM Transactions on Database Systems*, 16(3):535–563, September 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-3/p535-roussopoulos/p535-roussopoulos.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-3/p535-roussopoulos/; http://www.acm.org/pubs/toc/Abstracts/tods/111215.html.

Mukkamala:1991:NEC

[387] Ravi Mukkamala and Sushil Jajodia. A note on estimating the cardinality of the projection of a database relation. *ACM Transactions on Database Systems*, 16(3):564–566, September 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-3/p564-mukkamala/p564-mukkamala.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-3/p564-mukkamala/; http://www.acm.org/pubs/toc/Abstracts/tods/111218.html.

Wolfson:1991:CMP

[388] O. Wolfson and A. Milo. Corrigendum: “The Multicast Policy and its Relationship to Replicated Data Placement” [ACM Trans. Database Systems **16** (1991), no. 1, 181–205, by O. Wolfson and A. Milo] (MR 92a:68042). *ACM Transactions on Database Systems*, 16(3):567, September 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). See [375].

Hernandez:1991:CTM

[389] Héctor J. Hernández and Edward P. F. Chan. Constant-time-maintainable BCNF database schemes. *ACM Transactions on Database Systems*, 16(4):571–599, December 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-4/p571-hernandez/p571-hernandez.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-4/p571-hernandez/; http://www.acm.org/pubs/toc/Abstracts/tods/115301.html.

Hou:1991:SEA

[390] Wen-Chi Hou and Gultekin Özsoyoğlu. Statistical estimators for aggregate relational algebra queries. *ACM Transactions on Database Systems*, 16(4):600–654, December 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-4/p600-hou/p600-hou.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-4/p600-hou/; http://www.acm.org/pubs/toc/Abstracts/tods/115300.html.

Negri:1991:DJN

[391] M. Negri and G. Pelagatti. Distributive join: a new algorithm for joining relations. *ACM Transactions on Database Systems*, 16(4):655–669, December 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/

1991-16-4/p655-negri/p655-negri.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-4/p655-negri/; http://www.acm.org/pubs/toc/Abstracts/tods/115299.html.

Moerkotte:1991:RCC

[392] Guido Moerkotte and Peter C. Lockemann. Reactive consistency control in deductive databases. *ACM Transactions on Database Systems*, 16(4): 670–702, December 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-4/p670-moerkotte/p670-moerkotte.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-4/p670-moerkotte/; http://www.acm.org/pubs/toc/Abstracts/tods/115298.html.

Carey:1991:CDT

[393] Michael J. Carey and Miron Livny. Conflict detection tradeoffs for replicated data. *ACM Transactions on Database Systems*, 16(4):703–746, December 1991. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1991-16-4/p703-carey/p703-carey.pdf; http://www.acm.org/pubs/citations/journals/tods/1991-16-4/p703-carey/; http://www.acm.org/pubs/toc/Abstracts/tods/115289.html.

Cattell:1992:OOB

[394] R. G. G. Cattell and J. Skeen. Object operations benchmark. *ACM Transactions on Database Systems*, 17(1):1–31, March 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-1/p1-cattell/p1-cattell.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-1/p1-cattell/; http://www.acm.org/pubs/toc/Abstracts/tods/128766.html.

Weddell:1992:RAF

[395] Grant E. Weddell. Reasoning about functional dependencies generalized for semantic data models. *ACM Transactions on Database Systems*, 17(1):32–64, March 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-1/p32-weddell/p32-weddell.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-1/p32-weddell/; http://www.acm.org/pubs/toc/Abstracts/tods/128767.html.

Paredaens:1992:CNA

[396] Jan Paredaens and Dirk Van Gucht. Converting nested algebra expressions into flat algebra expressions. *ACM Transactions on Database Systems*, 17(1):65–93, March 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-1/p65-paredaens/p65-paredaens.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-1/p65-paredaens/; http://www.acm.org/pubs/toc/Abstracts/tods/128768.html.

Mohan:1992:ATR

[397] C. Mohan, Don Haderle, Bruce Lind-

say, Hamid Pirahesh, and Peter Schwarz. ARIES: a transaction recovery method supporting fine-granularity locking and partial rollbacks using write-ahead logging. *ACM Transactions on Database Systems*, 17(1):94–162, March 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-1/p94-mohan/p94-mohan.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-1/p94-mohan/; http://www.acm.org/pubs/toc/Abstracts/tods/128770.html. Also published in/as: IBM Almaden Res. Ctr, Res. R. No. RJ-6649, Jan. 1989, 45 pp.

Badrinath:1992:SBC

[398] B. R. Badrinath and Krithi Ramamritham. Semantics-based concurrency control: Beyond commutativity. *ACM Transactions on Database Systems*, 17(1):163–199, March 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-1/p163-badrinath/p163-badrinath.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-1/p163-badrinath/; http://www.acm.org/pubs/toc/Abstracts/tods/128771.html.

Wang:1992:CTM

[399] Ke Wang and Marc H. Graham. Constant-time maintainability: a generalization of independence. *ACM Transactions on Database Systems*, 17(2):201–246, June 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-2/p201-wang/p201-wang.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-2/p201-wang/; http://www.acm.org/pubs/toc/Abstracts/tods/128904.html.

Becker:1992:RBO

[400] Ludger Becker and Ralf Hartmut Güting. Rule-based optimization and query processing in an extensible geometric database system. *ACM Transactions on Database Systems*, 17(2):247–303, June 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-2/p247-becker/p247-becker.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-2/p247-becker/; http://www.acm.org/pubs/toc/Abstracts/tods/128905.html.

Franaszek:1992:CCH

[401] Peter A. Franaszek, John T. Robinson, and Alexander Thomasian. Concurrency control for high contention environments. *ACM Transactions on Database Systems*, 17(2):304–345, June 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-2/p304-franaszek/p304-franaszek.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-2/p304-franaszek/; http://www.acm.org/pubs/toc/Abstracts/tods/128906.html.

Leng:1992:OWA

[402] Chun-Wu Roger Leng and Dik Lun

Lee. Optimal weight assignment for signature generation. *ACM Transactions on Database Systems*, 17(2):346–373, June 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-2/p346-leng/p346-leng.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-2/p346-leng/; http://www.acm.org/pubs/toc/Abstracts/tods/128907.html.

Tansel:1992:MRH

[403] Abdullah U. Tansel and Lucy Garnett. On M. A. Roth, H. F. Korth and A. Silberschatz: "Extended Algebra and Calculus for Nested Relational Databases" [ACM Trans. Database Systems **13** (1988), no. 4, 389–417]. *ACM Transactions on Database Systems*, 17(2):374–383, June 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-2/p374-tansel/p374-tansel.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-2/p374-tansel/; http://www.acm.org/pubs/toc/Abstracts/tods/128908.html. See [322].

Bergamaschi:1992:TRC

[404] Sonia Bergamaschi and Claudio Sartori. On taxonomic reasoning in conceptual design. *ACM Transactions on Database Systems*, 17(3):385–422, September 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-3/p385-bergamaschi/p385-bergamaschi.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-3/p385-bergamaschi/; http://www.acm.org/pubs/toc/Abstracts/tods/132272.html.

Markowitz:1992:REE

[405] Victor M. Markowitz and Arie Shoshani. Representing extended entity-relationship structures in relational databases: a modular approach. *ACM Transactions on Database Systems*, 17(3):423–464, September 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-3/p423-markowitz/p423-markowitz.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-3/p423-markowitz/; http://www.acm.org/pubs/toc/Abstracts/tods/132273.html.

Date:1992:SCG

[406] C. J. Date and Ronald Fagin. Simple conditions for guaranteeing higher normal forms in relational databases. *ACM Transactions on Database Systems*, 17(3):465–476, September 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-3/p465-date/p465-date.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-3/p465-date/; http://www.acm.org/pubs/toc/Abstracts/tods/132274.html.

Hsu:1992:PEC

[407] Meichun Hsu and Bin Zhang. Performance evaluation of cautious waiting. *ACM Transactions on Database Systems*, 17(3):477–512, September

1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-3/p477-hsu/p477-hsu.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-3/p477-hsu/; http://www.acm.org/pubs/toc/Abstracts/tods/132275.html.

Abbott:1992:SRT

[408] Robert K. Abbott and Héctor García-Molina. Scheduling real-time transactions: a performance evaluation. *ACM Transactions on Database Systems*, 17(3):513–560, September 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-3/p513-abbott/p513-abbott.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-3/p513-abbott/; http://www.acm.org/pubs/toc/Abstracts/tods/132276.html.

Siegel:1992:MAR

[409] Michael Siegel, Edward Sciore, and Sharon Salveter. A method for automatic rule derivation to support semantic query optimization. *ACM Transactions on Database Systems*, 17(4):563–600, December 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-4/p563-siegel/p563-siegel.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-4/p563-siegel/; http://www.acm.org/pubs/toc/Abstracts/tods/146932.html.

Kamel:1992:IDC

[410] Nabil Kamel and Roger King. Intelligent database caching through the use of page answers and page traces. *ACM Transactions on Database Systems*, 17(4):601–646, December 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-4/p601-kamel/p601-kamel.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-4/p601-kamel/; http://www.acm.org/pubs/toc/Abstracts/tods/146933.html.

Maiocchi:1992:ADT

[411] Roberto Maiocchi, Barbara Pernici, and Federico Barbic. Automatic deduction of temporal information. *ACM Transactions on Database Systems*, 17(4):647–688, December 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-4/p647-maiocchi/p647-maiocchi.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-4/p647-maiocchi/; http://www.acm.org/pubs/toc/Abstracts/tods/146934.html.

Agrawal:1992:GTQ

[412] D. Agrawal and A. El Abbadi. The generalized tree quorum protocol: An efficient approach for managing replicated data. *ACM Transactions on Database Systems*, 17(4):689–717, December 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.

org/pubs/articles/journals/tods/1992-17-4/p689-agrawal/p689-agrawal.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-4/p689-agrawal/; http://www.acm.org/pubs/toc/Abstracts/tods/146935.html.

Atzeni:1992:URD

[413] Paolo Atzeni and Riccardo Torlone. Updating relational databases through weak instance interfaces. *ACM Transactions on Database Systems*, 17(4): 718–745, December 1992. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1992-17-4/p718-atzeni/p718-atzeni.pdf; http://www.acm.org/pubs/citations/journals/tods/1992-17-4/p718-atzeni/; http://www.acm.org/pubs/toc/Abstracts/tods/146936.html.

Ishikawa:1993:MLI

[414] Hiroshi Ishikawa, Fumio Suzuki, Fumihiko Kozakura, Akifumi Makinouchi, Mika Miyagishima, Yoshio Izumida, Masaaki Aoshima, and Yasuo Yamane. The model, language, and implementation of an object-oriented multimedia knowledge base management system. *ACM Transactions on Database Systems*, 18(1):1–50, March 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-1/p1-ishikawa/p1-ishikawa.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-1/p1-ishikawa/; http://www.acm.org/pubs/toc/Abstracts/tods/151285.html.

Johnson:1993:PCB

[415] Theodore Johnson and Dennis Shasha. The performance of current B-Tree algorithms. *ACM Transactions on Database Systems*, 18(1):51–101, March 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-1/p51-johnson/p51-johnson.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-1/p51-johnson/; http://www.acm.org/pubs/toc/Abstracts/tods/151286.html. “Current” in the title should be “Concurrent”.

Kumar:1993:CAT

[416] Akhil Kumar and Arie Segev. Cost and availability tradeoffs in replicated data concurrency control. *ACM Transactions on Database Systems*, 18(1):102–131, March 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-1/p102-kumar/p102-kumar.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-1/p102-kumar/; http://www.acm.org/pubs/toc/Abstracts/tods/151287.html.

Abdel-Ghaffar:1993:ODA

[417] Khaled A. S. Abdel-Ghaffar and Amr El Abbadi. Optimal disk allocation for partial match queries. *ACM Transactions on Database Systems*, 18(1):132–156, March 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-1/p132-abdel-ghaffar/p132-

abdel-ghaffar.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-1/p132-abdel-ghaffar/; http://www.acm.org/pubs/toc/Abstracts/tods/151288.html.

Matsliach:1993:PAF

[418] Gabriel Matsliach. Performance analysis of file organizations that use multibucket data leaves with partial expansions. *ACM Transactions on Database Systems*, 18(1):157–180, March 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-1/p157-matsliach/p157-matsliach.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-1/p157-matsliach/; http://www.acm.org/pubs/toc/Abstracts/tods/151289.html.

Chomicki:1993:FRI

[419] Jan Chomicki and Tomasz Imieliński. Finite representation of infinite query answers. *ACM Transactions on Database Systems*, 18(2):181–223, June 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-2/p181-chomicki/p181-chomicki.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-2/p181-chomicki/; http://www.acm.org/pubs/toc/Abstracts/tods/151635.html.

Hou:1993:PTC

[420] Wen-Chi Hou and Gultekin Özsoyoğlu. Processing time-constrained aggregate queries in CASE-DB. *ACM Transactions on Database Systems*, 18(2):224–261, June 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-2/p224-hou/p224-hou.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-2/p224-hou/; http://www.acm.org/pubs/toc/Abstracts/tods/151636.html.

Drenick:1993:SQO

[421] P. E. Drenick and E. J. Smith. Stochastic query optimization in distributed databases. *ACM Transactions on Database Systems*, 18(2):262–288, June 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-2/p262-drenick/p262-drenick.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-2/p262-drenick/; http://www.acm.org/pubs/toc/Abstracts/tods/151637.html.

Rothermel:1993:OCP

[422] Kurt Rothermel and Stefan Pappe. Open commit protocols tolerating commission failures. *ACM Transactions on Database Systems*, 18(2):289–332, June 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-2/p289-rothermel/p289-rothermel.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-2/p289-rothermel/; http://www.acm.org/pubs/toc/Abstracts/tods/151638.html.

Rahm:1993:EPE

[423] Erhard Rahm. Empirical performance

evaluation of concurrency and coherency control protocols for database sharing systems. *ACM Transactions on Database Systems*, 18(2):333–377, June 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-2/p333-rahm/p333-rahm.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-2/p333-rahm/; http://www.acm.org/pubs/toc/Abstracts/tods/151639.html.

Kuper:1993:LDM

[424] Gabriel M. Kuper and Moshe Y. Vardi. The logical data model. *ACM Transactions on Database Systems*, 18(3):379–413, September 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-3/p379-kuper/p379-kuper.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-3/p379-kuper/; http://www.acm.org/pubs/toc/Abstracts/tods/155274.html.

Levene:1993:SNE

[425] Mark Levene and George Loizou. Semantics for null extended nested relations. *ACM Transactions on Database Systems*, 18(3):414–459, September 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-3/p414-levene/p414-levene.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-3/p414-levene/; http://www.acm.org/pubs/toc/Abstracts/tods/155275.html.

Agrawal:1993:COS

[426] Divyakant Agrawal, Amr El Abbadi, and Ambuj K. Singh. Consistency and orderability: Semantics-based correctness criteria for databases. *ACM Transactions on Database Systems*, 18(3):460–486, September 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-3/p460-agrawal/p460-agrawal.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-3/p460-agrawal/; http://www.acm.org/pubs/toc/Abstracts/tods/155276.html.

Sagiv:1993:SQT

[427] Yehoshua Sagiv and Oded Shmueli. Solving queries by tree projections. *ACM Transactions on Database Systems*, 18(3):487–511, September 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-3/p487-sagiv/p487-sagiv.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-3/p487-sagiv/; http://www.acm.org/pubs/toc/Abstracts/tods/155277.html.

Ioannidis:1993:TCA

[428] Yannis Ioannidis, Raghu Ramakrishnan, and Linda Winger. Transitive closure algorithms based on graph traversal. *ACM Transactions on Database Systems*, 18(3):512–576, September 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/

1993-18-3/p512-ioannidis/p512-ioannidis.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-3/p512-ioannidis/; http://www.acm.org/pubs/toc/Abstracts/tods/155273.html.

Thomasian:1993:TPL

[429] Alexander Thomasian. Two-phase locking performance and its thrashing behavior. *ACM Transactions on Database Systems*, 18(4):579–625, December 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-4/p579-thomasian/p579-thomasian.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-4/p579-thomasian/; http://www.acm.org/pubs/toc/Abstracts/tods/169720.html.

Qian:1993:DSD

[430] Xiaolei Qian. The deductive synthesis of database transactions. *ACM Transactions on Database Systems*, 18(4):626–677, December 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-4/p626-qian/p626-qian.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-4/p626-qian/; http://www.acm.org/pubs/toc/Abstracts/tods/169716.html.

Malvestuto:1993:USA

[431] Francesco M. Malvestuto. A universal-scheme approach to statistical databases containing homogeneous summary tables. *ACM Transactions on Database Systems*, 18(4):678–708, December 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-4/p678-malvestuto/p678-malvestuto.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-4/p678-malvestuto/; http://www.acm.org/pubs/toc/Abstracts/tods/169712.html.

Ioannidis:1993:OHL

[432] Yannis E. Ioannidis and Stavros Christodoulakis. Optimal histograms for limiting worst-case error propagation in the size of join results. *ACM Transactions on Database Systems*, 18(4):709–748, December 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1993-18-4/p709-ioannidis/p709-ioannidis.pdf; http://www.acm.org/pubs/citations/journals/tods/1993-18-4/p709-ioannidis/; http://www.acm.org/pubs/toc/Abstracts/tods/169708.html.

Anonymous:1993:AI

[433] Anonymous. 1993 author index. *ACM Transactions on Database Systems*, 18(4):749–750, December 1993. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kim:1994:CS

[434] Won Kim. Charter and scope. *ACM Transactions on Database Systems*, 19(1):1–??, March 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Olivier:1994:TSO

[435] Martin S. Olivier and Sebastiaan H. von Solms. A taxonomy for secure object-oriented databases. *ACM Transactions on Database Systems*, 19(1):3–46, March 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-1/p3-olivier/p3-olivier.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-1/p3-olivier/; http://www.acm.org/pubs/toc/Abstracts/tods/174640.html.

Tendick:1994:MRP

[436] Patrick Tendick and Norman Matloff. A modified random perturbation method for database security. *ACM Transactions on Database Systems*, 19(1):47–63, March 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-1/p47-tendick/p47-tendick.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-1/p47-tendick/; http://www.acm.org/pubs/toc/Abstracts/tods/174641.html.

Clifford:1994:CHR

[437] James Clifford, Albert Croker, and Alexander Tuzhilin. On completeness of historical relational query languages. *ACM Transactions on Database Systems*, 19(1):64–116, March 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-1/p64-clifford/p64-clifford.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-1/p64-clifford/; http://www.acm.org/pubs/toc/Abstracts/tods/174642.html.

Salem:1994:AL

[438] Kenneth Salem, Héctor García-Molina, and Jeannie Shands. Altruistic locking. *ACM Transactions on Database Systems*, 19(1):117–165, March 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-1/p117-salem/p117-salem.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-1/p117-salem/; http://www.acm.org/pubs/toc/Abstracts/tods/174639.html.

Rosenthal:1994:TTR

[439] Arnon Rosenthal and David Reiner. Tools and transformations — rigorous and otherwise — for practical database design. *ACM Transactions on Database Systems*, 19(2):167–211, June 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-2/p167-rosenthal/p167-rosenthal.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-2/p167-rosenthal/; http://www.acm.org/pubs/toc/Abstracts/tods/176568.html.

Bright:1994:ARS

[440] M. W. Bright, A. R. Hurson, and S. Pakzad. Automated resolution

of semantic heterogeneity in multidatabases. *ACM Transactions on Database Systems*, 19(2):212–253, June 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-2/p212-bright/p212-bright.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-2/p212-bright/; http://www.acm.org/pubs/toc/Abstracts/tods/176569.html.

Sciore:1994:USV

[441] Edward Sciore, Michael Siegel, and Arnon Rosenthal. Using semantic values to facilitate interoperability among heterogeneous information systems. *ACM Transactions on Database Systems*, 19(2):254–290, June 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-2/p254-sciore/p254-sciore.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-2/p254-sciore/; http://www.acm.org/pubs/toc/Abstracts/tods/176570.html.

Subrahmanian:1994:AKB

[442] V. S. Subrahmanian. Amalgamating knowledge bases. *ACM Transactions on Database Systems*, 19(2):291–331, June 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-2/p291-subrahmanian/p291-subrahmanian.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-2/p291-subrahmanian/; http://www.acm.org/pubs/toc/Abstracts/tods/176571.html.

Yan:1994:ISS

[443] Tak W. Yan and Héctor García-Molina. Index structures for selective dissemination of information under the Boolean model. *ACM Transactions on Database Systems*, 19(2):332–364, June 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-2/p332-yan/p332-yan.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-2/p332-yan/; http://www.acm.org/pubs/toc/Abstracts/tods/176573.html.

Ceri:1994:AGP

[444] Stefano Ceri, Piero Fraternali, Stefano Paraboschi, and Letizia Tanca. Automatic generation of production rules for integrity maintenance. *ACM Transactions on Database Systems*, 19(3):367–422, September 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-3/p367-ceri/p367-ceri.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-3/p367-ceri/; http://www.acm.org/pubs/toc/Abstracts/tods/185828.html.

Polyzois:1994:ERB

[445] Christos A. Polyzois and Héctor García-Molina. Evaluation of remote backup algorithms for transaction-processing systems. *ACM Transactions on Database Systems*, 19(3):423–449, September 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644

(electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-3/p423-polyzois/p423-polyzois.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-3/p423-polyzois/; http://www.acm.org/pubs/toc/Abstracts/tods/185836.html.

Chrysanthis:1994:SET

[446] Panos K. Chrysanthis and Krithi Ramamritham. Synthesis of extended transaction models using ACTA. *ACM Transactions on Database Systems*, 19(3):450–491, September 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-3/p450-chrysanthis/p450-chrysanthis.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-3/p450-chrysanthis/; http://www.acm.org/pubs/toc/Abstracts/tods/185843.html.

Korth:1994:FAC

[447] Henry F. Korth and Greg Speegle. Formal aspects of concurrency control in long-duration transaction systems using the NT/PV model. *ACM Transactions on Database Systems*, 19(3):492–535, September 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-3/p492-korth/p492-korth.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-3/p492-korth/; http://www.acm.org/pubs/toc/Abstracts/tods/185854.html.

Goldman:1994:QCN

[448] Kenneth J. Goldman and Nancy Lynch. Quorum consensus in nested-transaction systems. *ACM Transactions on Database Systems*, 19(4):537–585, December 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-4/p537-goldman/p537-goldman.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-4/p537-goldman/; http://www.acm.org/pubs/toc/Abstracts/tods/195666.html.

Krishnakumar:1994:BIT

[449] Narayanan Krishnakumar and Arthur J. Bernstein. Bounded ignorance: a technique for increasing concurrency in a replicated system. *ACM Transactions on Database Systems*, 19(4):586–625, December 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-4/p586-krishnakumar/p586-krishnakumar.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-4/p586-krishnakumar/; http://www.acm.org/pubs/toc/Abstracts/tods/195670.html.

Winslett:1994:FQL

[450] Marianne Winslett, Kenneth Smith, and Xiaolei Qian. Formal query languages for secure relational databases. *ACM Transactions on Database Systems*, 19(4):626–662, December 1994. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1994-19-4/p626-winslett/

p626-winslett.pdf; http://www.acm.org/pubs/citations/journals/tods/1994-19-4/p626-winslett/; http://www.acm.org/pubs/toc/Abstracts/tods/195675.html.

Kim:1995:CS

[451] Won Kim. Charter and scope. *ACM Transactions on Database Systems*, 20(1):1–2, March 1995. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Aiken:1995:SAT

[452] Alexander Aiken, Joseph M. Hellerstein, and Jennifer Widom. Static analysis techniques for predicting the behavior of active database rules. *ACM Transactions on Database Systems*, 20(1):3–41, March 1995. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1995-20-1/p3-aiken/p3-aiken.pdf; http://www.acm.org/pubs/citations/journals/tods/1995-20-1/p3-aiken/; http://www.acm.org/pubs/toc/Abstracts/tods/202107.html.

Chen:1995:DUR

[453] Weidong Chen. Declarative updates of relational databases. *ACM Transactions on Database Systems*, 20(1):42–70, March 1995. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1995-20-1/p42-chen/p42-chen.pdf; http://www.acm.org/pubs/citations/journals/tods/1995-20-1/p42-chen/; http://www.acm.org/pubs/toc/Abstracts/tods/202110.html.

Jagadish:1995:IDM

[454] H. V. Jagadish. The INCINERATE data model. *ACM Transactions on Database Systems*, 20(1):71–110, March 1995. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1995-20-1/p71-jagadish/p71-jagadish.pdf; http://www.acm.org/pubs/citations/journals/tods/1995-20-1/p71-jagadish/; http://www.acm.org/pubs/toc/Abstracts/tods/202113.html.

Baekgaard:1995:ICN

[455] Lars Baekgaard and Leo Mark. Incremental computation of nested relational query expressions. *ACM Transactions on Database Systems*, 20(2):111–148, June 1995. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1995-20-2/p111-baekgaard/p111-baekgaard.pdf; http://www.acm.org/pubs/citations/journals/tods/1995-20-2/p111-baekgaard/; http://www.acm.org/pubs/toc/Abstracts/tods/210198.html.

Chomicki:1995:ECT

[456] Jan Chomicki. Efficient checking of temporal integrity constraints using bounded history encoding. *ACM Transactions on Database Systems*, 20(2):149–186, June 1995. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1995-20-2/p149-chomicki/p149-chomicki.pdf; http://www.acm.org/pubs/citations/journals/tods/

1995-20-2/p149-chomicki/; http://www.acm.org/pubs/toc/Abstracts/tods/210200.html.

Graefe:1995:FAU

[457] Goetz Graefe and Richard L. Cole. Fast algorithms for universal quantification in large databases. *ACM Transactions on Database Systems*, 20(2):187–236, June 1995. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1995-20-2/p187-graefe/p187-graefe.pdf; http://www.acm.org/pubs/citations/journals/tods/1995-20-2/p187-graefe/; http://www.acm.org/pubs/toc/Abstracts/tods/210202.html.

Chen:1995:QED

[458] Weidong Chen. Query evaluation in deductive databases with alternating fixpoint semantics. *ACM Transactions on Database Systems*, 20(3):239–287, September 1995. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1995-20-3/p239-chen/p239-chen.pdf; http://www.acm.org/pubs/citations/journals/tods/1995-20-3/p239-chen/; http://www.acm.org/pubs/toc/Abstracts/tods/211416.html.

Ioannidis:1995:CCQ

[459] Yannis E. Ioannidis and Raghu Ramakrishnan. Containment of conjunctive queries: Beyond relations as sets. *ACM Transactions on Database Systems*, 20(3):288–324, September 1995. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1995-20-3/p288-ioannidis/p288-ioannidis.pdf; http://www.acm.org/pubs/citations/journals/tods/1995-20-3/p288-ioannidis/; http://www.acm.org/pubs/toc/Abstracts/tods/211419.html.

Shasha:1995:TCA

[460] Dennis Shasha, François Llirbat, Eric Simon, and Patrick Valduriez. Transaction chopping: Algorithms and performance studies. *ACM Transactions on Database Systems*, 20(3):325–363, September 1995. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1995-20-3/p325-shasha/p325-shasha.pdf; http://www.acm.org/pubs/citations/journals/tods/1995-20-3/p325-shasha/; http://www.acm.org/pubs/toc/Abstracts/tods/211427.html.

Chen:1995:EML

[461] I.-Min A. Chen, Richard Hull, and Dennis McLeod. An execution model for limited ambiguity rules and its application to derived data update. *ACM Transactions on Database Systems*, 20(4):365–413, December 1995. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1995-20-4/p365-chen/p365-chen.pdf; http://www.acm.org/pubs/citations/journals/tods/1995-20-4/p365-chen/; http://www.acm.org/pubs/toc/Abstracts/tods/219039.html.

Fraternali:1995:SAD

[462] Piero Fraternali and Letizia Tanca.

A structured approach for the definition of the semantics of active databases. *ACM Transactions on Database Systems*, 20(4):414–471, December 1995. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1995-20-4/p414-fraternali/p414-fraternali.pdf; http://www.acm.org/pubs/citations/journals/tods/1995-20-4/p414-fraternali/; http://www.acm.org/pubs/toc/Abstracts/tods/219042.html.

Srivastava:1995:SOD

[463] Divesh Srivastava, S. Sudarshan, Raghu Ramakrishnan, and Jeffrey F. Naughton. Space optimization in deductive databases. *ACM Transactions on Database Systems*, 20(4):472–516, December 1995. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1995-20-4/p472-srivastava/p472-srivastava.pdf; http://www.acm.org/pubs/citations/journals/tods/1995-20-4/p472-srivastava/; http://www.acm.org/pubs/toc/Abstracts/tods/219056.html.

Baralis:1996:MTA

[464] Elena Baralis, Stefano Ceri, and Stefano Paraboschi. Modularization techniques for active rules design. *ACM Transactions on Database Systems*, 21(1):1–29, March 1996. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-1/p1-baralis/p1-baralis.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-1/p1-baralis/; http://www.acm.org/pubs/toc/Abstracts/tods/227605.html.

Buneman:1996:PTI

[465] Peter Buneman and Atsushi Ohori. Polymorphism and type inference in database programming. *ACM Transactions on Database Systems*, 21(1):30–76, March 1996. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-1/p30-buneman/p30-buneman.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-1/p30-buneman/; http://www.acm.org/pubs/toc/Abstracts/tods/227609.html.

Mok:1996:NFP

[466] Wai Yin Mok, Yiu-Kai Ng, and David W. Embley. A normal form for precisely characterizing redundancy in nested relations. *ACM Transactions on Database Systems*, 21(1):77–106, March 1996. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-1/p77-mok/p77-mok.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-1/p77-mok/; http://www.acm.org/pubs/toc/Abstracts/tods/227612.html.

Mumick:1996:MC

[467] Inderpal Singh Mumick, Sheldon J. Finkelstein, Hamid Pirahesh, and Raghu Ramakrishnan. Magic conditions. *ACM Transactions on Database Systems*, 21(1):107–155, March 1996. CODEN ATDSD3.

ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-1/p107-mumick/p107-mumick.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-1/p107-mumick/; http://www.acm.org/pubs/toc/Abstracts/tods/227624.html.

Liu:1996:BBS

[468] Ling Liu and Robert Meersman. The building blocks for specifying communication behavior of complex objects: An activity-driven approach. *ACM Transactions on Database Systems*, 21(2):157–207, June 1996. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-2/p157-liu/p157-liu.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-2/p157-liu/; http://www.acm.org/pubs/toc/Abstracts/tods/232622.html.

Ross:1996:TRE

[469] Kenneth A. Ross. Tail recursion elimination in deductive databases. *ACM Transactions on Database Systems*, 21(2):208–237, June 1996. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-2/p208-ross/p208-ross.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-2/p208-ross/; http://www.acm.org/pubs/toc/Abstracts/tods/232628.html.

Bell:1996:IDD

[470] Colin Bell, Anil Nerode, Raymond T. Ng, and V. S. Subrahmanian. Implementing deductive databases by mixed integer programming. *ACM Transactions on Database Systems*, 21(2):238–269, June 1996. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-2/p238-bell/p238-bell.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-2/p238-bell/; http://www.acm.org/pubs/toc/Abstracts/tods/232691.html.

Guo:1996:SSI

[471] Sha Guo, Wei Sun, and Mark A. Weiss. Solving satisfiability and implication problems in database systems. *ACM Transactions on Database Systems*, 21(2):270–293, June 1996. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-2/p270-guo/p270-guo.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-2/p270-guo/; http://www.acm.org/pubs/toc/Abstracts/tods/232692.html.

Ciaccia:1996:DKB

[472] Paolo Ciaccia, Paolo Tiberio, and Pavel Zezula. Declustering of key-based partitioned signature files. *ACM Transactions on Database Systems*, 21(3):295–338, September 1996. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-3/p295-ciaccia/p295-ciaccia.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-3/p295-ciaccia/; http://www.

acm.org/pubs/toc/Abstracts/tods/232755.html.

Dey:1996:PRM

[473] Debabrata Dey and Sumit Sarkar. A probabilistic relational model and algebra. *ACM Transactions on Database Systems*, 21(3):339–369, September 1996. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-3/p339-dey/p339-dey.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-3/p339-dey/; http://www.acm.org/pubs/toc/Abstracts/tods/232796.html.

Ghandeharizadeh:1996:HED

[474] Shahram Ghandeharizadeh, Richard Hull, and Dean Jacobs. Heraclitus: Elevating deltas to be first-class citizens in a database programming language. *ACM Transactions on Database Systems*, 21(3):370–426, September 1996. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-3/p370-ghandeharizadeh/p370-ghandeharizadeh.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-3/p370-ghandeharizadeh/; http://www.acm.org/pubs/toc/Abstracts/tods/232801.html.

Kuo:1996:MVD

[475] Dean Kuo. Model and verification of a data manager based on ARIES. *ACM Transactions on Database Systems*, 21(4):427–479, December 1996. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-4/p427-kuo/p427-kuo.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-4/p427-kuo/.

Litwin:1996:LSD

[476] Witold Litwin, Marie-Anna Neimat, and Donovan A. Schneider. LH* — a scalable, distributed data structure. *ACM Transactions on Database Systems*, 21(4):480–525, December 1996. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-4/p480-litwin/p480-litwin.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-4/p480-litwin/.

Raschid:1996:SUR

[477] Louiqa Raschid and Jorge Lobo. Semantics for update rule programs and implementation in a relational database management system. *ACM Transactions on Database Systems*, 21(4):526–572, December 1996. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1996-21-4/p526-raschid/p526-raschid.pdf; http://www.acm.org/pubs/citations/journals/tods/1996-21-4/p526-raschid/.

Keen:1997:EEL

[478] John S. Keen and William J. Dally. Extended ephemeral logging: log storage management for applications with long lived transactions. *ACM Trans-*

actions on Database Systems, 22(1):1–42, March 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1997-22-1/p1-keen/p1-keen.pdf; http://www.acm.org/pubs/citations/journals/tods/1997-22-1/p1-keen/.

Galindo-Legaria:1997:OSR

[479] César Galindo-Legaria and Arnon Rosenthal. Outerjoin simplification and reordering for query optimization. *ACM Transactions on Database Systems*, 22(1):43–74, March 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1997-22-1/p43-galindo-legaria/p43-galindo-legaria.pdf; http://www.acm.org/pubs/citations/journals/tods/1997-22-1/p43-galindo-legaria/.

Peters:1997:AMD

[480] Randel J. Peters and M. Tamer Özsu. An axiomatic model of dynamic schema evolution in objectbase systems. *ACM Transactions on Database Systems*, 22(1):75–114, March 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1997-22-1/p75-peters/p75-peters.pdf; http://www.acm.org/pubs/citations/journals/tods/1997-22-1/p75-peters/.

Wang:1997:LDT

[481] X. Sean Wang, Claudio Bettini, Alexander Brodsky, and Sushil Jajodia. Logical design for temporal databases with multiple granularities. *ACM Transactions on Database Systems*, 22(2):115–170, June 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1997-22-2/p115-wang/p115-wang.pdf; http://www.acm.org/pubs/citations/journals/tods/1997-22-2/p115-wang/.

Clifford:1997:SND

[482] James Clifford, Curtis Dyreson, Tomás Isakowitz, Christian S. Jensen, and Richard T. Snodgrass. On the semantics of “now” in databases. *ACM Transactions on Database Systems*, 22(2):171–214, June 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1997-22-2/p171-clifford/p171-clifford.pdf; http://www.acm.org/pubs/citations/journals/tods/1997-22-2/p171-clifford/.

Ammann:1997:AFM

[483] Paul Ammann, Sushil Jajodia, and Indrakshi Ray. Applying formal methods to semantic-based decomposition of transactions. *ACM Transactions on Database Systems*, 22(2):215–254, June 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1997-22-2/p215-ammann/p215-ammann.pdf; http://www.acm.org/pubs/citations/journals/tods/1997-22-2/p215-ammann/.

Wolfson:1997:ADR

[484] Ouri Wolfson, Sushil Jajodia, and Yixiu Huang. An adaptive data replication algorithm. *ACM Transactions on Database Systems*, 22(2):255–314, June 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1997-22-2/p255-wolfson/p255-wolfson.pdf; http://www.acm.org/pubs/citations/journals/tods/1997-22-2/p255-wolfson/.

Franklin:1997:TCS

[485] Michael J. Franklin, Michael J. Carey, and Miron Livny. Transactional client-server cache consistency: alternatives and performance. *ACM Transactions on Database Systems*, 22(3):315–363, September 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1997-22-3/p315-franklin/p315-franklin.pdf; http://www.acm.org/pubs/citations/journals/tods/1997-22-3/p315-franklin/; http://www.acm.org:80/pubs/citations/journals/tods/1997-22-3/p315-franklin/.

Eiter:1997:DD

[486] Thomas Eiter, Georg Gottlob, and Heikki Mannila. Disjunctive Datalog. *ACM Transactions on Database Systems*, 22(3):364–418, September 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1997-22-3/p364-eiter/p364-eiter.pdf; http://www.acm.org/pubs/citations/journals/tods/1997-22-3/p364-eiter/; http://www.acm.org:80/pubs/citations/journals/tods/1997-22-3/p364-eiter/.

Lakshmanan:1997:PFP

[487] Laks V. S. Lakshmanan, Nicola Leone, Robert Ross, and V. S. Subrahmanian. ProbView: a flexible probabilistic database system. *ACM Transactions on Database Systems*, 22(3):419–469, September 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1997-22-3/p419-lakshmanan/p419-lakshmanan.pdf; http://www.acm.org/pubs/citations/journals/tods/1997-22-3/p419-lakshmanan/; http://www.acm.org:80/pubs/citations/journals/tods/1997-22-3/p419-lakshmanan/.

Storey:1997:DDC

[488] Veda C. Storey, Roger H. L. Chiang, Debabrata Dey, Robert C. Goldstein, and Shankar Sundaresan. Database design with common sense business reasoning and learning. *ACM Transactions on Database Systems*, 22(4):471–512, December 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1997-22-4/p471-storey/p471-storey.pdf; http://www.acm.org/pubs/citations/journals/tods/1997-22-4/p471-storey/; http://www.acm.org:80/pubs/citations/journals/tods/1997-22-4/p471-storey/.

Tari:1997:ONF

[489] Zahir Tari, John Stokes, and Stefano Spaccapietra. Object normal forms

and dependency constraints for object-oriented schemata. *ACM Transactions on Database Systems*, 22(4):513–569, December 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1997-22-4/p513-tari/p513-tari.pdf; http://www.acm.org/pubs/citations/journals/tods/1997-22-4/p513-tari/.

Zaharioudakis:1997:AFG

[490] Markos Zaharioudakis, Michael J. Carey, and Michael J. Franklin. Adaptive, fine-grained sharing in a client-server OODBMS: a callback-based approach. *ACM Transactions on Database Systems*, 22(4):570–627, December 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1997-22-4/p570-zaharioudakis/p570-zaharioudakis.pdf; http://www.acm.org/pubs/citations/journals/tods/1997-22-4/p570-zaharioudakis/.

Anonymous:1997:AI

[491] Anonymous. 1997 author index. *ACM Transactions on Database Systems*, 22(4):628–??, ???? 1997. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Dyreson:1998:SVT

[492] Curtis E. Dyreson and Richard T. Snodgrass. Supporting valid-time indeterminacy. *ACM Transactions on Database Systems*, 23(1):1–57, March 1998. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1998-23-1/p1-dyreson/p1-dyreson.pdf; http://www.acm.org/pubs/citations/journals/tods/1998-23-1/p1-dyreson/; http://www.acm.org:80/pubs/citations/journals/tods/1998-23-1/p1-dyreson/.

Revesz:1998:SQL

[493] Peter Z. Revesz. Safe query languages for constraint databases. *ACM Transactions on Database Systems*, 23(1):58–99, March 1998. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1998-23-1/p58-revesz/p58-revesz.pdf; http://www.acm.org/pubs/citations/journals/tods/1998-23-1/p58-revesz/; http://www.acm.org:80/pubs/citations/journals/tods/1998-23-1/p58-revesz/.

Stolboushkin:1998:SSD

[494] Alexei P. Stolboushkin and Michael A. Taitslin. Safe stratified datalog with integer order does not have syntax. *ACM Transactions on Database Systems*, 23(1):100–109, March 1998. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1998-23-1/p100-stolboushkin/p100-stolboushkin.pdf; http://www.acm.org/pubs/citations/journals/tods/1998-23-1/p100-stolboushkin/.

Anonymous:1998:TR

[495] Anonymous. TODS referees. *ACM Transactions on Database Systems*, 23(1):110–111, March 1998.

Anonymous:1998:C

[496] Anonymous. Corrigenda. *ACM Transactions on Database Systems*, 23(1): 112, March 1998.

Hellerstein:1998:OTQ

[497] Joseph M. Hellerstein. Optimization techniques for queries with expensive methods. *ACM Transactions on Database Systems*, 23(2):113–157, June 1998. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1998-23-2/p113-hellerstein/p113-hellerstein.pdf; http://www.acm.org/pubs/citations/journals/tods/1998-23-2/p113-hellerstein/; http://www.acm.org:80/pubs/citations/journals/tods/1998-23-2/p113-hellerstein/.

Liu:1998:MAP

[498] Xiangning Liu, Abdelsalam Helal, and Weimin Du. Multiview access protocols for large-scale replication. *ACM Transactions on Database Systems*, 23(2):158–198, June 1998. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1998-23-2/p158-liu/p158-liu.pdf; http://www.acm.org/pubs/citations/journals/tods/1998-23-2/p158-liu/; http://www.acm.org:80/pubs/citations/journals/tods/1998-23-2/p158-liu/.

Mehrotra:1998:ECM

[499] Sharad Mehrotra, Rajeev Rastogi, Henry F. Korth, and Abraham Silberschatz. Ensuring consistency in multidatabases by preserving two-level serializability. *ACM Transactions on Database Systems*, 23(2):199–230, June 1998. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1998-23-2/p199-mehrotra/p199-mehrotra.pdf; http://www.acm.org/pubs/citations/journals/tods/1998-23-2/p199-mehrotra/; http://www.acm.org:80/pubs/citations/journals/tods/1998-23-2/p199-mehrotra/.

Bertino:1998:ACM

[500] Elisa Bertino, Claudio Bettini, Elena Ferrari, and Pierangela Samarati. An access control model supporting periodicity constraints and temporal reasoning. *ACM Transactions on Database Systems*, 23(3):231–285, September 1998. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1998-23-3/p231-bertino/; http://www.acm.org:80/pubs/citations/journals/tods/1998-23-3/p231-bertino/.

Castano:1998:CSA

[501] S. Castano, V. De Antonellis, M. G. Fugini, and B. Pernici. Conceptual schema analysis: techniques and applications. *ACM Transactions on Database Systems*, 23(3):286–333, September 1998. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1998-23-3/p286-castano/p286-castano.pdf; http://www.acm.org/pubs/citations/journals/tods/1998-23-3/p286-castano/; http://www.acm.

org:80/pubs/citations/journals/tods/1998-23-3/p286-castano/.

Formica:1998:EMC

[502] A. Formica, H. D. Groger, and M. Missikoff. An efficient method for checking object-oriented database schema correctness. *ACM Transactions on Database Systems*, 23(3):334–369, September 1998. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1998-23-3/p334-formica/p334-formica.pdf; http://www.acm.org/pubs/citations/journals/tods/1998-23-3/p334-formica/; http://www.acm.org:80/pubs/citations/journals/tods/1998-23-3/p334-formica/.

Konopnicki:1998:IGW

[503] David Konopnicki and Oded Shmueli. Information gathering in the World-Wide Web: the W3QL query language and the W3QS system. *ACM Transactions on Database Systems*, 23(4):369–410, December 1998. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1998-23-4/p369-konopnicki/p369-konopnicki.pdf; http://www.acm.org/pubs/citations/journals/tods/1998-23-4/p369-konopnicki/; http://www.acm.org:80/pubs/citations/journals/tods/1998-23-4/p369-konopnicki/.

Sistla:1998:TTC

[504] A. Prasad Sistla, Ouri Wolfson, Yelena Yesha, and Robert Sloan. Towards a theory of cost management for digital libraries and electronic commerce. *ACM Transactions on Database Systems*, 23(4):411–452, December 1998. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1998-23-4/p411-sistla/p411-sistla.pdf; http://www.acm.org/pubs/citations/journals/tods/1998-23-4/p411-sistla/; http://www.acm.org:80/pubs/citations/journals/tods/1998-23-4/p411-sistla/.

Zobel:1998:IFV

[505] Justin Zobel, Alistair Moffat, and Kotagiri Ramamohanarao. Inverted files versus signature files for text indexing. *ACM Transactions on Database Systems*, 23(4):453–490, December 1998. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1998-23-4/p453-zobel/p453-zobel.pdf; http://www.acm.org/pubs/citations/journals/tods/1998-23-4/p453-zobel/; http://www.acm.org:80/pubs/citations/journals/tods/1998-23-4/p453-zobel/.

Datta:1999:BPS

[506] Anindya Datta, Debra E. Vandermeer, Aslihan Celik, and Vijay Kumar. Broadcast protocols to support efficient retrieval from databases by mobile users. *ACM Transactions on Database Systems*, 24(1):1–79, March 1999. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1999-24-1/p1-datta/.

Levene:1999:DDI

[507] Mark Levene and George Loizou. Database design for incomplete relations. *ACM Transactions on Database Systems*, 24(1):80–126, March 1999. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1999-24-1/p80-levene/.

Wijsen:1999:TFC

[508] Jef Wijsen. Temporal FDs on complex objects. *ACM Transactions on Database Systems*, 24(1):127–176, March 1999. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1999-24-1/p127-wijsen/.

Chaudhuri:1999:OQU

[509] Surajit Chaudhuri and Kyuseok Shim. Optimization of queries with user-defined predicates. *ACM Transactions on Database Systems*, 24(2):177–228, June 1999. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1999-24-2/p177-chaudhuri/.

Gravano:1999:GTS

[510] Luis Gravano, Héctor García-Molina, and Anthony Tomasic. GlOSS: text-source discovery over the Internet. *ACM Transactions on Database Systems*, 24(2):229–264, June 1999. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1999-24-2/p229-gravano/.

Hjaltason:1999:DBS

[511] Gísli R. Hjaltason and Hanan Samet. Distance browsing in spatial databases. *ACM Transactions on Database Systems*, 24(2):265–318, June 1999. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1999-24-2/p265-hjaltason/.

Alagic:1999:TCO

[512] Suad Alagíc. Type-checking OQL queries in the ODMG type systems. *ACM Transactions on Database Systems*, 24(3):319–360, September 1999. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1999-24-3/p319-alagic/.

Bozkaya:1999:ILM

[513] Tolga Bozkaya and Meral Ozsoyoglu. Indexing large metric spaces for similarity search queries. *ACM Transactions on Database Systems*, 24(3): 361–404, September 1999. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1999-24-3/p361-bozkaya/.

Casati:1999:SIE

[514] Fabio Casati, Stefano Ceri, Stefano Paraboschi, and Guiseppe Pozzi. Specification and implementation of exceptions in workflow management systems. *ACM Transactions on Database Systems*, 24(3):405–451, September 1999. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644

(electronic). URL http://www.acm.org/pubs/citations/journals/tods/1999-24-3/p405-casati/.

Dey:1999:IDD

[515] Debabrata Dey, Veda C. Storey, and Terence M. Barron. Improving database design through the analysis of relationships. *ACM Transactions on Database Systems*, 24(4):453–486, December 1999. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/1999-24-4/p453-dey/p453-dey.pdf; http://www.acm.org/pubs/citations/journals/tods/1999-24-4/p453-dey/.

Muralidhar:1999:SRD

[516] Krishnamurty Muralidhar and Rathindra Sarathy. Security of random data perturbation methods. *ACM Transactions on Database Systems*, 24(4):487–493, December 1999. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1999-24-4/p487-muralidhar/.

Wand:1999:OAR

[517] Yair Wand, Veda C. Storey, and Ron Weber. An ontological analysis of the relationship construct in conceptual modeling. *ACM Transactions on Database Systems*, 24(4):494–528, December 1999. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1999-24-4/p494-wand/.

Yan:1999:SID

[518] Tak W. Yan and Hector Garcia-Molina. The SIFT information dissemination system. *ACM Transactions on Database Systems*, 24(4):529–565, December 1999. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/1999-24-4/p529-yan/.

Morris:19xx:DON

[519] K. Morris, J. D. Ullman, and A. Van-Gelder. Design overview of the NAIL! system. *ACM Transactions on Database Systems*, ??(??):??, ???? 19xx. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). Also published in/as: Proc. of International Conference on Logic Programming, BCS 3, 1986. Also published in/as: Stanford Un., CSD, TR-CS-86-1108.

Spiegler:19xx:DRA

[520] I. Spiegler and Y. Noff. Dynamic recovery as an alternative to data base restoration. *ACM Transactions on Database Systems*, ??(??):??, ???? 19xx. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). Submitted, March 1987.

Guting:2000:FRQ

[521] Ralf Hartmut Güting, Michael H. Böhlen, Martin Erwig, Christian S. Jensen, Nikos A. Lorentzos, Markus Schneider, and Michalis Vazirgiannis. A foundation for representing and querying moving objects. *ACM Transactions on Database Systems*, 25(1):1–42, March 2000. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644

(electronic). URL http://www.acm.org/pubs/articles/journals/tods/2000-25-1/p1-guting/p1-guting.pdf; http://www.acm.org/pubs/citations/journals/tods/2000-25-1/p1-guting/.

Kossmann:2000:IDP

[522] Donald Kossmann and Konrad Stocker. Iterative dynamic programming: a new class of query optimization algorithms. *ACM Transactions on Database Systems*, 25(1):43–82, March 2000. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/2000-25-1/p43-kossmann/p43-kossmann.pdf; http://www.acm.org/pubs/citations/journals/tods/2000-25-1/p43-kossmann/.

Lerner:2000:MCT

[523] Barbara Staudt Lerner. A model for compound type changes encountered in schema evolution. *ACM Transactions on Database Systems*, 25(1):83–127, March 2000. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/2000-25-1/p83-lerner/p83-lerner.pdf; http://www.acm.org/pubs/citations/journals/tods/2000-25-1/p83-lerner/.

Bohm:2000:CMQ

[524] Christian Böhm. A cost model for query processing in high dimensional data spaces. *ACM Transactions on Database Systems*, 25(2):129–178, June 2000. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/2000-25-2/p129-bohm/p129-bohm.pdf; http://www.acm.org/pubs/citations/journals/tods/2000-25-2/p129-bohm/.

Cui:2000:TLV

[525] Yingwei Cui, Jennifer Widom, and Janet L. Wiener. Tracing the lineage of view data in a warehousing environment. *ACM Transactions on Database Systems*, 25(2):179–227, June 2000. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/2000-25-2/p179-cui/p179-cui.pdf; http://www.acm.org/pubs/citations/journals/tods/2000-25-2/p179-cui/.

Parsons:2000:EIT

[526] Jeffrey Parsons and Yair Wand. Emancipating instances from the tyranny of classes in information modeling. *ACM Transactions on Database Systems*, 25(2):228–268, June 2000. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/2000-25-2/p228-parsons/p228-parsons.pdf; http://www.acm.org/pubs/citations/journals/tods/2000-25-2/p228-parsons/.

Baralis:2000:AAS

[527] Elena Baralis and Jennifer Widom. An algebraic approach to static analysis of active database rules. *ACM Transactions on Database Systems*, 25(3):269–332, September 2000. CODEN ATDSD3. ISSN 0362-5915 (print),

1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/2000-25-3/p269-baralis/.

Kemme:2000:NAD

[528] Bettina Kemme and Gustavo Alonso. A new approach to developing and implementing eager database replication protocols. *ACM Transactions on Database Systems*, 25(3):333–379, September 2000. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/2000-25-3/p333-kemme/.

Meo:2000:TDV

[529] Rosa Meo. Theory of dependence values. *ACM Transactions on Database Systems*, 25(3):380–406, September 2000. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/citations/journals/tods/2000-25-3/p380-meo/.

Bohlen:2000:TSM

[530] Michael H. Böhlen, Christian S. Jensen, and Richard T. Snodgrass. Temporal statement modifiers. *ACM Transactions on Database Systems*, 25(4):407–456, 2000. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/2000-25-4/p407-bohlen/p407-bohlen.pdf; http://www.acm.org/pubs/citations/journals/tods/2000-25-4/p407-bohlen/.

Fegaras:2000:OOQ

[531] Leonidas Fegaras and David Maier. Optimizing object queries using an effective calculus. *ACM Transactions on Database Systems*, 25(4):457–516, 2000. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/2000-25-4/p457-fegaras/p457-fegaras.pdf; http://www.acm.org/pubs/citations/journals/tods/2000-25-4/p457-fegaras/.

Kossmann:2000:CII

[532] Donald Kossmann, Michael J. Franklin, Gerhard Drasch, and Wig Ag. Cache investment: integrating query optimization and distributed data placement. *ACM Transactions on Database Systems*, 25(4):517–558, 2000. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL http://www.acm.org/pubs/articles/journals/tods/2000-25-4/p517-kossmann/p517-kossmann.pdf; http://www.acm.org/pubs/citations/journals/tods/2000-25-4/p517-kossmann/.

Andries:2001:AUM

[533] Marc Andries, Luca Cabibbo, Jan Paredaens, and Jan van den Bussche. Applying an update method to a set of receivers. *ACM Transactions on Database Systems*, 26(1):1–40, March 2001. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Dekhtyar:2001:PTD

[534] Alex Dekhtyar, Robert Ross, and V. S. Subrahmanian. Probabilistic temporal databases, I: algebra. *ACM Transactions on Database Systems*, 26(1):41–95, March 2001. CODEN ATDSD3.

ISSN 0362-5915 (print), 1557-4644 (electronic).

Hsu:2001:RBP

[535] Windsor W. Hsu, Alan Jay Smith, and Honesty C. Young. I/O reference behavior of production database workloads and the TPC benchmarks — an analysis at the logical level. *ACM Transactions on Database Systems*, 26 (1):96–143, March 2001. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Chomicki:2001:QAD

[536] Jan Chomicki, David Toman, and Michael H. Böhlen. Querying ATSQL databases with temporal logic. *ACM Transactions on Database Systems*, 26 (2):145–178, June 2001. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fukuda:2001:DMO

[537] Takeshi Fukuda, Yasuhiko Morimoto, Shimichi Morishita, and Takeshi Tokuyama. Data mining with optimized two-dimensional association rules. *ACM Transactions on Database Systems*, 26(2):179–213, June 2001. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jajodia:2001:FSM

[538] Sushil Jajodia, Pierangela Samarati, Maria Luisa Sapino, and V. S. Subrahmanian. Flexible support for multiple access control policies. *ACM Transactions on Database Systems*, 26 (2):214–260, June 2001. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Eiter:2001:POB

[539] Thomas Eiter, James J. Lu, Thomas Lukasiewicz, and V. S. Subrahmanian. Probabilistic object bases. *ACM Transactions on Database Systems*, 26(3): 264–312, September 2001. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Li:2001:AQU

[540] Chen Li and Edward Chang. Answering queries with useful bindings. *ACM Transactions on Database Systems*, 26(3):313–343, September 2001. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ng:2001:ERD

[541] Wilfred Ng. An extension of the relational data model to incorporate ordered domains. *ACM Transactions on Database Systems*, 26(3):344–383, September 2001. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kotidis:2001:CDV

[542] Yannis Kotidis and Nick Roussopoulos. A case for dynamic view management. *ACM Transactions on Database Systems*, 26(4):388–423, December 2001. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Mamoulis:2001:MSJ

[543] Nikos Mamoulis and Dimitris Papadias. Multiway spatial joins. *ACM Transactions on Database Systems*, 26 (4):424–475, December 2001. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Lakshmanan:2001:SES

[544] Laks V. S. Lakshmanan, Fereidoon Sadri, and Subbu N. Subramanian. SchemaSQL: An extension to SQL for multidatabase interoperability. *ACM Transactions on Database Systems*, 26 (4):476–519, December 2001. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Suciu:2002:DQE

[545] Dan Suciu. Distributed query evaluation on semistructured data. *ACM Transactions on Database Systems*, 27(1):1–62, March 2002. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Schuldt:2002:AIT

[546] Heiko Schuldt, Gustavo Alonso, Catriel Beeri, and Hans-Jörg Schek. Atomicity and isolation for transactional processes. *ACM Transactions on Database Systems*, 27(1):63–116, March 2002. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Liu:2002:LFD

[547] Mengchi Liu, Gillian Dobbie, and Tok Wang Ling. A logical foundation for deductive object-oriented databases. *ACM Transactions on Database Systems*, 27(1):117–151, March 2002. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bruno:2002:TSQ

[548] Nicolas Bruno, Surajit Chaudhuri, and Luis Gravano. Top-k selection queries over relational databases: Mapping strategies and performance evaluation. *ACM Transactions on Database Systems*, 27(2):153–187, June 2002. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Chakrabarti:2002:LAD

[549] Kaushik Chakrabarti, Eamonn Keogh, Sharad Mehrotra, and Michael Pazzani. Locally adaptive dimensionality reduction for indexing large time series databases. *ACM Transactions on Database Systems*, 27(2):188–228, June 2002. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Calders:2002:SDM

[550] Toon Calders, Raymond T. Ng, and Jef Wijsen. Searching for dependencies at multiple abstraction levels. *ACM Transactions on Database Systems*, 27 (3):229–260, September 2002. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Gibbons:2002:FIM

[551] Phillip B. Gibbons, Yossi Matias, and Viswanath Poosala. Fast incremental maintenance of approximate histograms. *ACM Transactions on Database Systems*, 27(3):261–298, September 2002. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Tao:2002:CMO

[552] Yufei Tao, Dimitris Papadias, and Jun Zhang. Cost models for overlapping and multiversion structures. *ACM Transactions on Database Systems*, 27 (3):299–342, September 2002. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

May:2002:UGS

[553] Wolfgang May and Bertram Ludäscher. Understanding the global semantics of referential actions using logic rules. *ACM Transactions on Database Systems*, 27(4):343–397, December 2002. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ciaccia:2002:SMS

[554] Paolo Ciaccia and Marco Patella. Searching in metric spaces with user-defined and approximate distances. *ACM Transactions on Database Systems*, 27(4):398–437, December 2002. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fernandez:2002:SFP

[555] Mary Fernández, Yana Kadiyska, Dan Suciu, Atsuyuki Morishima, and Wang-Chiew Tan. SilkRoute: a framework for publishing relational data in XML. *ACM Transactions on Database Systems*, 27(4):438–493, December 2002. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Beneventano:2003:DLS

[556] Domenico Beneventano, Sonia Bergamaschi, and Claudio Sartori. Description logics for semantic query optimization in object-oriented database systems. *ACM Transactions on Database Systems*, 28(1):1–50, March 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Karp:2003:SAF

[557] Richard M. Karp, Scott Shenker, and Christos H. Papadimitriou. A simple algorithm for finding frequent elements in streams and bags. *ACM Transactions on Database Systems*, 28(1):51–55, March 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Melnik:2003:AAS

[558] Sergey Melnik and Hector Garcia-Molina. Adaptive algorithms for set containment joins. *ACM Transactions on Database Systems*, 28(1):56–99, March 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Tao:2003:SQD

[559] Yufei Tao and Dimitris Papadias. Spatial queries in dynamic environments. *ACM Transactions on Database Systems*, 28(2):101–139, June 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Gunopulos:2003:DAM

[560] Dimitrios Gunopulos, Roni Khardon, Heikki Mannila, Sanjeev Saluja, Hannu Toivonen, and Ram Sewak Sharma. Discovering all most specific sentences. *ACM Transactions on Database Systems*, 28(2):140–174, June 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Lechtenborger:2003:CRV

[561] Jens Lechtenbörger and Gottfried Vossen. On the computation of relational view complements. *ACM Transactions on Database Systems*, 28(2):175–208, June 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Wijesekera:2003:RPF

[562] Duminda Wijesekera, Sushil Jajodia, Francesco Parisi-Presicce, and Åsa Hagström. Removing permissions in the flexible authorization framework. *ACM Transactions on Database Systems*, 28(3):209–229, September 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jacox:2003:ISJ

[563] Edwin H. Jacox and Hanan Samet. Iterative spatial join. *ACM Transactions on Database Systems*, 28(3): 230–256, September 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jimenez-Peris:2003:QAD

[564] Ricardo Jiménez-Peris, M. Patiño-Martínez, Gustavo Alonso, and Bettina Kemme. Are quorums an alternative for data replication? *ACM Transactions on Database Systems*, 28 (3):257–294, September 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Tao:2003:APS

[565] Yufei Tao, Jimeng Sun, and Dimitris Papadias. Analysis of predictive spatio-temporal queries. *ACM Transactions on Database Systems*, 28(4): 295–336, December 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Lakshmanan:2003:EDM

[566] Laks V. S. Lakshmanan, Carson Kai-Sang Leung, and Raymond T. Ng. Efficient dynamic mining of constrained frequent sets. *ACM Transactions on Database Systems*, 28(4):337–389, December 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cho:2003:EPR

[567] Junghoo Cho and Hector Garcia-Molina. Effective page refresh policies for Web crawlers. *ACM Transactions on Database Systems*, 28(4): 390–426, December 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Chomicki:2003:PFR

[568] Jan Chomicki. Preference formulas in relational queries. *ACM Transactions on Database Systems*, 28(4): 427–466, December 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Diao:2003:PSP

[569] Yanlei Diao, Mehmet Altinel, Michael J. Franklin, Hao Zhang, and Peter Fischer. Path sharing and predicate evaluation for high-performance XML filtering. *ACM Transactions on Database Systems*, 28(4):467–516, December 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Hjaltason:2003:IDS

[570] Gisli R. Hjaltason and Hanan Samet. Index-driven similarity search in metric spaces. *ACM Transactions on Database Systems*, 28(4):517–580, December 2003. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kolaitis:2004:F

[571] Phokion Kolaitis and Michael J. Franklin. Foreword. *ACM Transactions on Database Systems*, 29(1):1, March 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Buneman:2004:ASD

[572] Peter Buneman, Sanjeev Khanna, Keishi Tajima, and Wang-Chiew Tan. Archiving scientific data. *ACM Transactions on Database Systems*, 29(1):2–42, March 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Garofalakis:2004:PWS

[573] Minos Garofalakis and Phillip B. Gibbons. Probabilistic wavelet synopses. *ACM Transactions on Database Systems*, 29(1):43–90, March 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Grust:2004:AXE

[574] Torsten Grust, Maurice Van Keulen, and Jens Teubner. Accelerating XPath evaluation in any RDBMS. *ACM Transactions on Database Systems*, 29 (1):91–131, March 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ross:2004:SCM

[575] Kenneth A. Ross. Selection conditions in main memory. *ACM Transactions on Database Systems*, 29(1):132–161, March 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Arasu:2004:CMR

[576] Arvind Arasu, Brian Babcock, Shivnath Babu, Jon McAlister, and Jennifer Widom. Characterizing memory requirements for queries over continuous data streams. *ACM Transactions on Database Systems*, 29(1):162–194, March 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Arenas:2004:NFX

[577] Marcelo Arenas and Leonid Libkin. A normal form for XML documents. *ACM Transactions on Database Systems*, 29(1):195–232, March 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Amer-Yahia:2004:DAO

[578] Sihem Amer-Yahia and Sophie Cluet. A declarative approach to optimize bulk loading into databases. *ACM Transactions on Database Systems*, 29 (2):233–281, June 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sadri:2004:EOS

[579] Reza Sadri, Carlo Zaniolo, Amir Zarkesh, and Jafar Adibi. Expressing and optimizing sequence queries in database systems. *ACM Transactions on Database Systems*, 29(2):282–318, June 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Marian:2004:ETQ

[580] Amélie Marian, Nicolas Bruno, and Luis Gravano. Evaluating top-k queries over Web-accessible databases. *ACM*

Transactions on Database Systems, 29 (2):319–362, June 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Yu:2004:CAM

[581] Ting Yu, Divesh Srivastava, Laks V. S. Lakshmanan, and H. V. Jagadish. A compressed accessibility map for XML. *ACM Transactions on Database Systems*, 29(2):363–402, June 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Datta:2004:PBA

[582] Anindya Datta, Kaushik Dutta, Helen Thomas, Debra Vandermeer, and Krithi Ramamritham. Proxy-based acceleration of dynamically generated content on the World Wide Web: An approach and implementation. *ACM Transactions on Database Systems*, 29 (2):403–443, June 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Vincent:2004:SFD

[583] Millist W. Vincent, Jixue Liu, and Chengfei Liu. Strong functional dependencies and their application to normal forms in XML. *ACM Transactions on Database Systems*, 29(3): 445–462, September 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Trajcevski:2004:MUM

[584] Goce Trajcevski, Ouri Wolfson, Klaus Hinrichs, and Sam Chamberlain. Managing uncertainty in moving objects databases. *ACM Transactions on Database Systems*, 29(3):463–507, September 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Chaudhuri:2004:EPM

[585] Surajit Chaudhuri, Vivek Narasayya, and Sunita Sarawagi. Extracting predicates from mining models for efficient query evaluation. *ACM Transactions on Database Systems*, 29(3): 508–544, September 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Babu:2004:ECR

[586] Shivnath Babu, Utkarsh Srivastava, and Jennifer Widom. Exploiting k-constraints to reduce memory overhead in continuous queries over data streams. *ACM Transactions on Database Systems*, 29(3):545–580, September 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ozsoyoglu:2004:QWM

[587] Gültekin Özsoyoğlu, Ismail Sengör Altingövde, Abdullah Al-Hamdani, Selma Ayşe Özel, Özgür Ulusoy, and Zehra Meral özsoyoğlu. Querying Web metadata: Native score management and text support in databases. *ACM Transactions on Database Systems*, 29 (4):581–634, December 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Baralis:2004:ECR

[588] Elena Baralis and Silvia Chiusano. Essential classification rule sets. *ACM Transactions on Database Systems*, 29 (4):635–674, December 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Chen:2004:MBV

[589] Songting Chen, Bin Liu, and Elke A. Rundensteiner. Multiversion-based view maintenance over distributed data sources. *ACM Transactions on Database Systems*, 29(4):675–709, December 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Balmin:2004:IVX

[590] Andrey Balmin, Yannis Papakonstantinou, and Victor Vianu. Incremental validation of XML documents. *ACM Transactions on Database Systems*, 29 (4):710–751, December 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Green:2004:PXS

[591] Todd J. Green, Ashish Gupta, Gerome Miklau, Makoto Onizuka, and Dan Suciu. Processing XML streams with deterministic automata and stream indexes. *ACM Transactions on Database Systems*, 29(4):752–788, December 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Samet:2004:DPG

[592] Hanan Samet. Decoupling partitioning and grouping: Overcoming shortcomings of spatial indexing with bucketing. *ACM Transactions on Database Systems*, 29(4):789–830, December 2004. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Milo:2005:EIX

[593] Tova Milo, Serge Abiteboul, Bernd Amann, Omar Benjelloun, and Fred Dang Ngoc. Exchanging intensional XML data. *ACM Transactions on Database Systems*, 30(1):1–40, March 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Papadias:2005:PSC

[594] Dimitris Papadias, Yufei Tao, Greg Fu, and Bernhard Seeger. Progressive skyline computation in database systems. *ACM Transactions on Database Systems*, 30(1):41–82, March 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Witkowski:2005:ASM

[595] Andrew Witkowski, Srikanth Bellamkonda, Tolga Bozkaya, Nathan Folkert, Abhinav Gupta, John Haydu, Lei Sheng, and Sankar Subramanian. Advanced SQL modeling in RDBMS. *ACM Transactions on Database Systems*, 30(1):83–121, March 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Madden:2005:TAQ

[596] Samuel R. Madden, Michael J. Franklin, Joseph M. Hellerstein, and Wei Hong. TinyDB: an acquisitional query processing system for sensor networks. *ACM Transactions on Database Systems*, 30(1):122–173, March 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fagin:2005:DEG

[597] Ronald Fagin, Phokion G. Kolaitis, and Lucian Popa. Data exchange: getting to the core. *ACM Transactions on Database Systems*, 30(1):174–210, March 2005. CODEN ATDSD3. ISSN

0362-5915 (print), 1557-4644 (electronic).

Pu:2005:CDS

[598] Ken Q. Pu and Alberto O. Mendelzon. Concise descriptions of subsets of structured sets. *ACM Transactions on Database Systems*, 30(1):211–248, March 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cormode:2005:WHW

[599] Graham Cormode and S. Muthukrishnan. What's hot and what's not: tracking most frequent items dynamically. *ACM Transactions on Database Systems*, 30(1):249–278, March 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Garofalakis:2005:XSP

[600] Minos Garofalakis and Amit Kumar. XML stream processing using tree-edit distance embeddings. *ACM Transactions on Database Systems*, 30(1):279–332, March 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Geerts:2005:TUB

[601] Floris Geerts, Bart Goethals, and Jan Van Den Bussche. Tight upper bounds on the number of candidate patterns. *ACM Transactions on Database Systems*, 30(2):333–363, June 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jagadish:2005:IAB

[602] H. V. Jagadish, Beng Chin Ooi, Kian-Lee Tan, Cui Yu, and Rui Zhang. iDistance: An adaptive B^+-tree based indexing method for nearest neighbor search. *ACM Transactions on Database Systems*, 30(2):364–397, June 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Braga:2005:XXU

[603] Daniele Braga, Alessandro Campi, and Stefano Ceri. *XQBE* (*XQ*uery *B*y *E*xample): a visual interface to the standard XML query language. *ACM Transactions on Database Systems*, 30(2):398–443, June 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Gottlob:2005:EAP

[604] Georg Gottlob, Christoph Koch, and Reinhard Pichler. Efficient algorithms for processing XPath queries. *ACM Transactions on Database Systems*, 30(2):444–491, June 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fekete:2005:MSI

[605] Alan Fekete, Dimitrios Liarokapis, Elizabeth O'Neil, Patrick O'Neil, and Dennis Shasha. Making snapshot isolation serializable. *ACM Transactions on Database Systems*, 30(2):492–528, June 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Papadias:2005:ANN

[606] Dimitris Papadias, Yufei Tao, Kyriakos Mouratidis, and Chun Kit Hui. Aggregate nearest neighbor queries in spatial databases. *ACM Transactions on Database Systems*, 30(2):529–576, June 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Peng:2005:XSX

[607] Feng Peng and Sudarshan S. Chawathe. XSQ: a streaming XPath engine. *ACM Transactions on Database Systems*, 30(2):577–623, June 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Wyss:2005:RLM

[608] Catharine M. Wyss and Edward L. Robertson. Relational languages for metadata integration. *ACM Transactions on Database Systems*, 30(2):624–660, June 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Zhang:2005:GMD

[609] Rui Zhang, Panos Kalnis, Beng Chin Ooi, and Kian-Lee Tan. Generalized multidimensional data mapping and query processing. *ACM Transactions on Database Systems*, 30(3): 661–697, September 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Pang:2005:IMS

[610] Chaoyi Pang, Guozhu Dong, and Kotagiri Ramamohanarao. Incremental maintenance of shortest distance and transitive closure in first-order logic and SQL. *ACM Transactions on Database Systems*, 30(3):698–721, September 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Wijsen:2005:DRU

[611] Jef Wijsen. Database repairing using updates. *ACM Transactions on Database Systems*, 30(3):722–768, September 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Litwin:2005:LHA

[612] Witold Litwin, Rim Moussa, and Thomas Schwarz. LH*RS—a highly-available scalable distributed data structure. *ACM Transactions on Database Systems*, 30(3):769–811, September 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

He:2005:STC

[613] Zhen He, Byung Suk Lee, and Robert Snapp. Self-tuning cost modeling of user-defined functions in an object-relational DBMS. *ACM Transactions on Database Systems*, 30(3):812–853, September 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Hurtado:2005:CSI

[614] Carlos A. Hurtado, Claudio Gutierrez, and Alberto O. Mendelzon. Capturing summarizability with integrity constraints in OLAP. *ACM Transactions on Database Systems*, 30(3): 854–886, September 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Suciu:2005:F

[615] Dan Suciu and Gerhard Weikum. Foreword. *ACM Transactions on Database Systems*, 30(4):887, December 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Garofalakis:2005:WSG

[616] Minos Garofalakis and Amit Kumar. Wavelet synopses for general error metrics. *ACM Transactions on Database Systems*, 30(4):888–928, December 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Marx:2005:CX

[617] Maarten Marx. Conditional XPath. *ACM Transactions on Database Systems*, 30(4):929–959, December 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Yan:2005:GIB

[618] Xifeng Yan, Philip S. Yu, and Jiawei Han. Graph indexing based on discriminative frequent structure analysis. *ACM Transactions on Database Systems*, 30(4):960–993, December 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fagin:2005:CSM

[619] Ronald Fagin, Phokion G. Kolaitis, Lucian Popa, and Wang-Chiew Tan. Composing schema mappings: Second-order dependencies to the rescue. *ACM Transactions on Database Systems*, 30 (4):994–1055, December 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bowman:2005:OQS

[620] Ivan T. Bowman and Kenneth Salem. Optimization of query streams using semantic prefetching. *ACM Transactions on Database Systems*, 30(4): 1056–1101, December 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kaushik:2005:SQO

[621] Raghav Kaushik, Jeffrey F. Naughton, Raghu Ramakrishnan, and Venkatesan T. Chakravarthy. Synopses for query optimization: a space-complexity perspective. *ACM Transactions on Database Systems*, 30(4): 1102–1127, December 2005. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Wu:2006:OBI

[622] Kesheng Wu, Ekow J. Otoo, and Arie Shoshani. Optimizing bitmap indices with efficient compression. *ACM Transactions on Database Systems*, 31(1):1–38, March 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Schneider:2006:TRB

[623] Markus Schneider and Thomas Behr. Topological relationships between complex spatial objects. *ACM Transactions on Database Systems*, 31(1):39–81, March 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jaluta:2006:BTC

[624] Ibrahim Jaluta, Seppo Sippu, and Eljas Soisalon-Soininen. B-tree concurrency control and recovery in page-server database systems. *ACM Transactions on Database Systems*, 31(1):82–132, March 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Gray:2006:CTC

[625] Jim Gray and Leslie Lamport. Consensus on transaction commit. *ACM*

Transactions on Database Systems, 31 (1):133–160, March 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Guha:2006:IXD

[626] Sudipto Guha, H. V. Jagadish, Nick Koudas, Divesh Srivastava, and Ting Yu. Integrating XML data sources using approximate joins. *ACM Transactions on Database Systems*, 31(1):161–207, March 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Abiteboul:2006:RQX

[627] Serge Abiteboul, Luc Segoufin, and Victor Vianu. Representing and querying XML with incomplete information. *ACM Transactions on Database Systems*, 31(1):208–254, March 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Pelanis:2006:IPP

[628] Mindaugas Pelanis, Simonas Šaltenis, and Christian S. Jensen. Indexing the past, present, and anticipated future positions of moving objects. *ACM Transactions on Database Systems*, 31 (1):255–298, March 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Rao:2006:SXD

[629] Praveen Rao and Bongki Moon. Sequencing XML data and query twigs for fast pattern matching. *ACM Transactions on Database Systems*, 31 (1):299–345, March 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

He:2006:ACS

[630] Bin He and Kevin Chen-Chuan Chang. Automatic complex schema matching across Web query interfaces: a correlation mining approach. *ACM Transactions on Database Systems*, 31 (1):346–395, March 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Guha:2006:ASA

[631] Sudipto Guha, Nick Koudas, and Kyuseok Shim. Approximation and streaming algorithms for histogram construction problems. *ACM Transactions on Database Systems*, 31(1):396–438, March 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Qian:2006:DIM

[632] Gang Qian, Qiang Zhu, Qiang Xue, and Sakti Pramanik. Dynamic indexing for multidimensional non-ordered discrete data spaces using a data-partitioning approach. *ACM Transactions on Database Systems*, 31(2):439–484, June 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Iwerks:2006:MNS

[633] Glenn S. Iwerks, Hanan Samet, and Kenneth P. Smith. Maintenance of K-nn and spatial join queries on continuously moving points. *ACM Transactions on Database Systems*, 31(2):485–536, June 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Pentaris:2006:QOD

[634] Fragkiskos Pentaris and Yannis Ioannidis. Query optimization in distributed networks of autonomous database systems. *ACM Transactions on Database Systems*, 31(2):537–583, June 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Lin:2006:SLT

[635] Xuemin Lin, Qing Liu, Yidong Yuan, Xiaofang Zhou, and Hongjun Lu. Summarizing level-two topological relations in large spatial datasets. *ACM Transactions on Database Systems*, 31 (2):584–630, June 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bright:2006:APB

[636] Laura Bright, Avigdor Gal, and Louiqa Raschid. Adaptive pull-based policies for wide area data delivery. *ACM Transactions on Database Systems*, 31 (2):631–671, June 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cohen:2006:RQA

[637] Sara Cohen, Werner Nutt, and Yehoshua Sagiv. Rewriting queries with arbitrary aggregation functions using views. *ACM Transactions on Database Systems*, 31(2):672–715, June 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kalashnikov:2006:DID

[638] Dmitri V. Kalashnikov and Sharad Mehrotra. Domain-independent data cleaning via analysis of entity-relationship graph. *ACM Transactions on Database Systems*, 31(2):716–767, June 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Eiter:2006:ISI

[639] Thomas Eiter and Leonid Libkin. Introduction to special ICDT section. *ACM Transactions on Database Systems*, 31(3):769, September 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Martens:2006:ECX

[640] Wim Martens, Frank Neven, Thomas Schwentick, and Geert Jan Bex. Expressiveness and complexity of XML Schema. *ACM Transactions on Database Systems*, 31(3):770–813, September 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Shaft:2006:TNN

[641] Uri Shaft and Raghu Ramakrishnan. Theory of nearest neighbors indexability. *ACM Transactions on Database Systems*, 31(3):814–838, September 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Braganholo:2006:PFA

[642] Vanessa P. Braganholo, Susan B. Davidson, and Carlos A. Heuser. PATAXÓ: a framework to allow updates through XML views. *ACM Transactions on Database Systems*, 31 (3):839–886, September 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Harizopoulos:2006:IIC

[643] Stavros Harizopoulos and Anastassia Ailamaki. Improving instruction cache performance in OLTP. *ACM Transactions on Database Systems*, 31(3): 887–920, September 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Shao:2006:TNV

[644] Feng Shao, Antal Novak, and Jayavel Shanmugasundaram. Triggers over nested views of relational data. *ACM Transactions on Database Systems*, 31 (3):921–967, September 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

May:2006:SQU

[645] Norman May, Sven Helmer, and Guido Moerkotte. Strategies for query unnesting in XML databases. *ACM Transactions on Database Systems*, 31(3): 968–1013, September 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Polyzotis:2006:XSX

[646] Neoklis Polyzotis and Minos Garofalakis. XSKETCH synopses for XML data graphs. *ACM Transactions on Database Systems*, 31(3): 1014–1063, September 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sugumaran:2006:RDO

[647] Vijayan Sugumaran and Veda C. Storey. The role of domain ontologies in database design: An ontology management and conceptual modeling environment. *ACM Transactions on Database Systems*, 31(3):1064–1094, September 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Metwally:2006:IES

[648] Ahmed Metwally, Divyakant Agrawal, and Amr El Abbadi. An integrated efficient solution for computing frequent and top-k elements in data streams. *ACM Transactions on Database Systems*, 31(3):1095–1133, September 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). See comments in [760].

Chaudhuri:2006:PIR

[649] Surajit Chaudhuri, Gautam Das, Vagelis Hristidis, and Gerhard Weikum. Probabilistic information retrieval approach for ranking of database query results. *ACM Transactions on Database Systems*, 31(3):1134–1168, September 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Calders:2006:EPA

[650] Toon Calders, Laks V. S. Lakshmanan, Raymond T. Ng, and Jan Paredaens. Expressive power of an algebra for data mining. *ACM Transactions on Database Systems*, 31(4): 1169–1214, December 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Koch:2006:CNX

[651] Christoph Koch. On the complexity of nonrecursive XQuery and functional query languages on complex values. *ACM Transactions on Database Systems*, 31(4):1215–1256, December 2006.

CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ilyas:2006:ARA

[652] Ihab F. Ilyas, Walid G. Aref, Ahmed K. Elmagarmid, Hicham G. Elmongui, Rahul Shah, and Jeffrey Scott Vitter. Adaptive rank-aware query optimization in relational databases. *ACM Transactions on Database Systems*, 31 (4):1257–1304, December 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jiao:2006:MSS

[653] Yishan Jiao. Maintaining stream statistics over multiscale sliding windows. *ACM Transactions on Database Systems*, 31(4):1305–1334, December 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Pei:2006:TMS

[654] Jian Pei, Yidong Yuan, Xuemin Lin, Wen Jin, Martin Ester, Qing Liu, Wei Wang, Yufei Tao, Jeffrey Xu Yu, and Qing Zhang. Towards multidimensional subspace skyline analysis. *ACM Transactions on Database Systems*, 31(4): 1335–1381, December 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jermaine:2006:SMS

[655] Christopher Jermaine, Alin Dobra, Subramanian Arumugam, Shantanu Joshi, and Abhijit Pol. The Sort-Merge-Shrink join. *ACM Transactions on Database Systems*, 31(4): 1382–1416, December 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Afrati:2006:FSS

[656] Foto Afrati and Jennifer Widom. Foreword to special section on SIGMOD/PODS 2005. *ACM Transactions on Database Systems*, 31(4):1417, December 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Yan:2006:FBS

[657] Xifeng Yan, Feida Zhu, Philip S. Yu, and Jiawei Han. Feature-based similarity search in graph structures. *ACM Transactions on Database Systems*, 31(4):1418–1453, December 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fuxman:2006:PDE

[658] Ariel Fuxman, Phokion G. Kolaitis, Renée J. Miller, and Wang-Chiew Tan. Peer data exchange. *ACM Transactions on Database Systems*, 31(4): 1454–1498, December 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cheng:2006:DMM

[659] David Cheng, Ravi Kannan, Santosh Vempala, and Grant Wang. A divide-and-merge methodology for clustering. *ACM Transactions on Database Systems*, 31(4):1499–1525, December 2006. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Snodgrass:2007:ESV

[660] Richard T. Snodgrass. Editorial: Single- versus double-blind reviewing. *ACM Transactions on Database Systems*, 32(1):1:1–1:??, March 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Pourabbas:2007:EEJ

[661] Elaheh Pourabbas and Arie Shoshani. Efficient estimation of joint queries from multiple OLAP databases. *ACM Transactions on Database Systems*, 32 (1):2:1–2:??, March 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Olteanu:2007:FNS

[662] Dan Olteanu. Forward node-selecting queries over trees. *ACM Transactions on Database Systems*, 32(1):3:1–3:??, March 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Nash:2007:CMG

[663] Alan Nash, Philip A. Bernstein, and Sergey Melnik. Composition of mappings given by embedded dependencies. *ACM Transactions on Database Systems*, 32(1):4:1–4:??, March 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Hwang:2007:OTK

[664] Seung won Hwang and Kevin Chen chuan Chang. Optimizing top-k queries for middleware access: a unified cost-based approach. *ACM Transactions on Database Systems*, 32(1):5:1–5:??, March 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ceri:2007:MCV

[665] Stefano Ceri, Francesco Di Giunta, and Pier Luca Lanzi. Mining constraint violations. *ACM Transactions on Database Systems*, 32(1):6:1–6:??, March 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jacox:2007:SJT

[666] Edwin H. Jacox and Hanan Samet. Spatial join techniques. *ACM Transactions on Database Systems*, 32(1):7:1–7:??, March 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Athitsos:2007:QSE

[667] Vassilis Athitsos, Marios Hadjieleftheriou, George Kollios, and Stan Sclaroff. Query-sensitive embeddings. *ACM Transactions on Database Systems*, 32 (2):8:1–8:??, June 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Chaudhuri:2007:OSS

[668] Surajit Chaudhuri, Gautam Das, and Vivek Narasayya. Optimized stratified sampling for approximate query processing. *ACM Transactions on Database Systems*, 32(2):9:1–9:??, June 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Deligiannakis:2007:EWM

[669] Antonios Deligiannakis, Minos Garofalakis, and Nick Roussopoulos. Extended wavelets for multiple measures. *ACM Transactions on Database Systems*, 32(2):10:1–10:??, June 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Rusu:2007:PRN

[670] Florin Rusu and Alin Dobra. Pseudo-random number generation for sketch-based estimations. *ACM Transactions on Database Systems*, 32(2):11:1–11:48,

June 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Mazeika:2007:ESA

[671] Arturas Mazeika, Michael H. Böhlen, Nick Koudas, and Divesh Srivastava. Estimating the selectivity of approximate string queries. *ACM Transactions on Database Systems*, 32(2):12:1–12:??, June 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Zeng:2007:CCC

[672] Zhiping Zeng, Jianyong Wang, Lizhu Zhou, and George Karypis. Out-of-core coherent closed quasi-clique mining from large dense graph databases. *ACM Transactions on Database Systems*, 32(2):13:1–13:??, June 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ipeirotis:2007:MMC

[673] Panagiotis G. Ipeirotis, Alexandros Ntoulas, Junghoo Cho, and Luis Gravano. Modeling and managing changes in text databases. *ACM Transactions on Database Systems*, 32(3):14:1–14:??, August 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Tao:2007:RSM

[674] Yufei Tao, Xiaokui Xiao, and Reynold Cheng. Range search on multidimensional uncertain data. *ACM Transactions on Database Systems*, 32(3):15:1–15:??, August 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sinha:2007:MRB

[675] Rishi Rakesh Sinha and Marianne Winslett. Multi-resolution bitmap indexes for scientific data. *ACM Transactions on Database Systems*, 32(3):16:1–16:??, August 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Chen:2007:IHJ

[676] Shimin Chen, Anastassia Ailamaki, Phillip B. Gibbons, and Todd C. Mowry. Improving hash join performance through prefetching. *ACM Transactions on Database Systems*, 32(3):17:1–17:??, August 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cao:2007:SQO

[677] Bin Cao and Antonio Badia. SQL query optimization through nested relational algebra. *ACM Transactions on Database Systems*, 32(3):18:1–18:??, August 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Mamoulis:2007:ETA

[678] Nikos Mamoulis, Man Lung Yiu, Kit Hung Cheng, and David W. Cheung. Efficient top-k aggregation of ranked inputs. *ACM Transactions on Database Systems*, 32(3):19:1–19:??, August 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Chaudhuri:2007:IAS

[679] Surajit Chaudhuri. Introduction to ACM SIGMOD 2006 conference papers. *ACM Transactions on Database*

Systems, 32(4):20:1–20:??, November 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ipeirotis:2007:TQO

[680] Panagiotis G. Ipeirotis, Eugene Agichtein, Pranay Jain, and Luis Gravano. Towards a query optimizer for text-centric tasks. *ACM Transactions on Database Systems*, 32(4): 21:1–21:??, November 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Petropoulos:2007:EIQ

[681] Michalis Petropoulos, Alin Deutsch, Yannis Papakonstantinou, and Yannis Katsis. Exporting and interactively querying Web service-accessed sources: The CLIDE System. *ACM Transactions on Database Systems*, 32(4): 22:1–22:??, November 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sharfman:2007:GAM

[682] Izchak Sharfman, Assaf Schuster, and Daniel Keren. A geometric approach to monitoring threshold functions over distributed data streams. *ACM Transactions on Database Systems*, 32(4): 23:1–23:??, November 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

VandenBussche:2007:IPS

[683] Jan Van den Bussche. Introduction to the PODS 2006 special section. *ACM Transactions on Database Systems*, 32(4):24:1–24:??, November 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fagin:2007:ISM

[684] Ronald Fagin. Inverting schema mappings. *ACM Transactions on Database Systems*, 32(4):25:1–25:??, November 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bender:2007:APM

[685] Michael A. Bender and Haodong Hu. An adaptive packed-memory array. *ACM Transactions on Database Systems*, 32(4):26:1–26:??, November 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ioannidis:2007:IES

[686] Yannis Ioannidis. Introduction to the EDBT 2006 special section. *ACM Transactions on Database Systems*, 32 (4):27:1–27:??, November 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bruno:2007:PDR

[687] Nicolas Bruno and Surajit Chaudhuri. Physical design refinement: The 'merge-reduce' approach. *ACM Transactions on Database Systems*, 32(4): 28:1–28:??, November 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Skopal:2007:UFF

[688] Tomáš Skopal. Unified framework for fast exact and approximate search in dissimilarity spaces. *ACM Transactions on Database Systems*, 32(4): 29:1–29:??, November 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Li:2007:NGN

[689] Yunyao Li, Huahai Yang, and H. V. Jagadish. NaLIX: a generic natural language search environment for XML data. *ACM Transactions on Database Systems*, 32(4):30:1–30:??, November 2007. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Hristidis:2008:ABK

[690] Vagelis Hristidis, Heasoo Hwang, and Yannis Papakonstantinou. Authority-based keyword search in databases. *ACM Transactions on Database Systems*, 33(1):1:1–1:40, March 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Aggarwal:2008:SDM

[691] Charu C. Aggarwal and Philip S. Yu. On static and dynamic methods for condensation-based privacy-preserving data mining. *ACM Transactions on Database Systems*, 33(1):2:1–2:39, March 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Balazinska:2008:FTB

[692] Magdalena Balazinska, Hari Balakrishnan, Samuel R. Madden, and Michael Stonebraker. Fault-tolerance in the Borealis distributed stream processing system. *ACM Transactions on Database Systems*, 33(1):3:1–3:44, March 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fan:2008:IPX

[693] Wenfei Fan and Philip Bohannon. Information preserving XML schema embedding. *ACM Transactions on Database Systems*, 33(1):4:1–4:44, March 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sharaf:2008:AMP

[694] Mohamed A. Sharaf, Panos K. Chrysanthis, Alexandros Labrinidis, and Kirk Pruhs. Algorithms and metrics for processing multiple heterogeneous continuous queries. *ACM Transactions on Database Systems*, 33 (1):5:1–5:44, March 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fan:2008:CFD

[695] Wenfei Fan, Floris Geerts, Xibei Jia, and Anastasios Kementsietsidis. Conditional functional dependencies for capturing data inconsistencies. *ACM Transactions on Database Systems*, 33 (2):6:1–6:48, June 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jacox:2008:MSS

[696] Edwin H. Jacox and Hanan Samet. Metric space similarity joins. *ACM Transactions on Database Systems*, 33 (2):7:1–7:38, June 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

He:2008:COD

[697] Bingsheng He and Qiong Luo. Cache-oblivious databases: Limitations and opportunities. *ACM Transactions on Database Systems*, 33(2):8:1–8:42, June 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cormode:2008:ACQ

[698] Graham Cormode and Minos Garofalakis. Approximate continuous querying over distributed streams. *ACM Transactions on Database Systems*, 33 (2):9:1–9:??, June 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Eiter:2008:RLQ

[699] Thomas Eiter, Michael Fink, Gianluigi Greco, and Domenico Lembo. Repair localization for query answering from inconsistent databases. *ACM Transactions on Database Systems*, 33 (2):10:1–10:??, June 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fagin:2008:QIS

[700] Ronald Fagin, Phokion G. Kolaitis, Lucian Popa, and Wang-Chiew Tan. Quasi-inverses of schema mappings. *ACM Transactions on Database Systems*, 33(2):11:1–11:??, June 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Zhang:2008:CTA

[701] Donghui Zhang, Alexander Markowetz, Vassilis J. Tsotras, Dimitrios Gunopulos, and Bernhard Seeger. On computing temporal aggregates with range predicates. *ACM Transactions on Database Systems*, 33(2):12:1–12:??, June 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Soliman:2008:PTR

[702] Mohamed A. Soliman, Ihab F. Ilyas, and Kevin Chen-Chuan Chang. Probabilistic top-k and ranking-aggregate queries. *ACM Transactions on Database Systems*, 33(3):13:1–13:??, August 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ke:2008:CPM

[703] Yiping Ke, James Cheng, and Wilfred Ng. Correlated pattern mining in quantitative databases. *ACM Transactions on Database Systems*, 33(3): 14:1–14:??, August 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Rusu:2008:SSJ

[704] Florin Rusu and Alin Dobra. Sketches for size of join estimation. *ACM Transactions on Database Systems*, 33(3): 15:1–15:??, August 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Xu:2008:CBS

[705] Fei Xu, Christopher Jermaine, and Alin Dobra. Confidence bounds for sampling-based group by estimates. *ACM Transactions on Database Systems*, 33(3):16:1–16:??, August 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

LeFevre:2008:WAA

[706] Kristen LeFevre, David J. DeWitt, and Raghu Ramakrishnan. Workload-aware anonymization techniques for large-scale datasets. *ACM Transactions on Database Systems*, 33(3): 17:1–17:??, August 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Karras:2008:HSO

[707] Panagiotis Karras and Nikos Mamoulis. Hierarchical synopses with optimal error guarantees. *ACM Transactions on Database Systems*, 33(3):18:1–18:??, August 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Lester:2008:EOI

[708] Nicholas Lester, Alistair Moffat, and Justin Zobel. Efficient online index construction for text databases. *ACM Transactions on Database Systems*, 33 (3):19:1–19:??, August 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ozsoyoglu:2008:FTS

[709] Z. Meral Özsoyoğlu. Foreword to TODS SIGMOD/PODS/ICDT 2007 special issue. *ACM Transactions on Database Systems*, 33(4):20:1–20:??, November 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ooi:2008:IAS

[710] Beng Chin Ooi. Introduction to ACM SIGMOD 2007 special section. *ACM Transactions on Database Systems*, 33 (4):21:1–21:??, November 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Melnik:2008:CMB

[711] Sergey Melnik, Atul Adya, and Philip A. Bernstein. Compiling mappings to bridge applications and databases. *ACM Transactions on Database Systems*, 33(4):22:1–22:??, November 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jermaine:2008:SAQ

[712] Chris Jermaine, Subramanian Arumugam, Abhijit Pol, and Alin Dobra. Scalable approximate query processing with the DBO engine. *ACM Transactions on Database Systems*, 33(4): 23:1–23:??, November 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Libkin:2008:IPS

[713] Leonid Libkin. Introduction to the PODS 2007 special section. *ACM Transactions on Database Systems*, 33 (4):24:1–24:??, November 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fan:2008:ECX

[714] Wenfei Fan, Floris Geerts, and Frank Neven. Expressiveness and complexity of XML publishing transducers. *ACM Transactions on Database Systems*, 33(4):25:1–25:??, November 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jayram:2008:ESA

[715] T. S. Jayram, Andrew McGregor, S. Muthukrishnan, and Erik Vee. Estimating statistical aggregates on probabilistic data streams. *ACM Transactions on Database Systems*, 33(4): 26:1–26:??, November 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Schwentick:2008:IIS

[716] Thomas Schwentick and Dan Suciu. Introduction to ICDT 2007 special sec-

tion. *ACM Transactions on Database Systems*, 33(4):27:1–27:??, November 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Buneman:2008:EIP

[717] Peter Buneman, James Cheney, and Stijn Vansummeren. On the expressiveness of implicit provenance in query and update languages. *ACM Transactions on Database Systems*, 33(4): 28:1–28:??, November 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ghelli:2008:CAX

[718] Giorgio Ghelli, Kristoffer Rose, and Jérôme Siméon. Commutativity analysis for XML updates. *ACM Transactions on Database Systems*, 33(4): 29:1–29:??, November 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Pavlou:2008:FAD

[719] Kyriacos E. Pavlou and Richard T. Snodgrass. Forensic analysis of database tampering. *ACM Transactions on Database Systems*, 33(4): 30:1–30:??, November 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bartolini:2008:ESB

[720] Ilaria Bartolini, Paolo Ciaccia, and Marco Patella. Efficient sort-based skyline evaluation. *ACM Transactions on Database Systems*, 33(4): 31:1–31:??, November 2008. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Mishra:2009:DQM

[721] Chaitanya Mishra and Nick Koudas. The design of a query monitoring system. *ACM Transactions on Database Systems*, 34(1):1:1–1:??, April 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cheng:2009:EQP

[722] James Cheng, Yiping Ke, and Wilfred Ng. Efficient query processing on graph databases. *ACM Transactions on Database Systems*, 34(1):2:1–2:??, April 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Spiegel:2009:TSA

[723] Joshua Spiegel and Neoklis Polyzotis. TuG synopses for approximate query answering. *ACM Transactions on Database Systems*, 34(1):3:1–3:??, April 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kramer:2009:SIC

[724] Jürgen Krämer and Bernhard Seeger. Semantics and implementation of continuous sliding window queries over data streams. *ACM Transactions on Database Systems*, 34(1):4:1–4:??, April 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jain:2009:QAO

[725] Alpa Jain and Panagiotis G. Ipeirotis. A quality-aware optimizer for information extraction. *ACM Transactions on Database Systems*, 34(1):5:1–5:??, April 2009. CODEN ATDSD3. ISSN

0362-5915 (print), 1557-4644 (electronic).

Considine:2009:RAA

[726] Jeffrey Considine, Marios Hadjieleftheriou, Feifei Li, John Byers, and George Kollios. Robust approximate aggregation in sensor data management systems. *ACM Transactions on Database Systems*, 34(1):6:1–6:??, April 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Angiulli:2009:DOP

[727] Fabrizio Angiulli, Fabio Fassetti, and Luigi Palopoli. Detecting outlying properties of exceptional objects. *ACM Transactions on Database Systems*, 34 (1):7:1–7:??, April 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Wong:2009:ABA

[728] Raymond Chi-Wing Wong, Ada Wai-Chee Fu, Ke Wang, and Jian Pei. Anonymization-based attacks in privacy-preserving data publishing. *ACM Transactions on Database Systems*, 34(2):8:1–8:??, June 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ghinita:2009:FED

[729] Gabriel Ghinita, Panagiotis Karras, Panos Kalnis, and Nikos Mamoulis. A framework for efficient data anonymization under privacy and accuracy constraints. *ACM Transactions on Database Systems*, 34(2):9:1–9:??, June 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Hartmann:2009:ERA

[730] Sven Hartmann and Sebastian Link. Efficient reasoning about a robust XML key fragment. *ACM Transactions on Database Systems*, 34(2):10:1–10:??, June 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Lin:2009:SII

[731] Yi Lin, Bettina Kemme, Ricardo Jiménez-Peris, Marta Patiño-Martínez, and José Enrique Armendáriz-Iñigo. Snapshot isolation and integrity constraints in replicated databases. *ACM Transactions on Database Systems*, 34 (2):11:1–11:??, June 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Su:2009:OOA

[732] Weifeng Su, Jiying Wang, and Frederick H. Lochovsky. ODE: Ontology-assisted data extraction. *ACM Transactions on Database Systems*, 34(2): 12:1–12:??, June 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Agarwal:2009:ISS

[733] Pankaj K. Agarwal, Junyi Xie, Jun Yang, and Hai Yu. Input-sensitive scalable continuous join query processing. *ACM Transactions on Database Systems*, 34(3):13:1–13:??, August 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sharifzadeh:2009:PSS

[734] Mehdi Sharifzadeh, Cyrus Shahabi, and Leyla Kazemi. Processing spatial skyline queries in both vector spaces

and spatial network databases. *ACM Transactions on Database Systems*, 34 (3):14:1–14:??, August 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Yi:2009:SSG

[735] Ke Yi, Feifei Li, Graham Cormode, Marios Hadjieleftheriou, George Kollios, and Divesh Srivastava. Small synopses for group-by query verification on outsourced data streams. *ACM Transactions on Database Systems*, 34 (3):15:1–15:??, August 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Perez:2009:SCS

[736] Jorge Pérez, Marcelo Arenas, and Claudio Gutierrez. Semantics and complexity of SPARQL. *ACM Transactions on Database Systems*, 34(3): 16:1–16:??, August 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Markowetz:2009:KSR

[737] Alexander Markowetz, Yin Yang, and Dimitris Papadias. Keyword search over relational tables and streams. *ACM Transactions on Database Systems*, 34(3):17:1–17:??, August 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cohen:2009:ICP

[738] Sara Cohen, Benny Kimelfeld, and Yehoshua Sagiv. Incorporating constraints in probabilistic XML. *ACM Transactions on Database Systems*, 34 (3):18:1–18:??, August 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sasha:2009:FTS

[739] Dennis Sasha, Maurizio Lenzerini, and Z. Meral Özsoyoğlu. Foreword to TODS SIGMOD/PODS 2008 special issue. *ACM Transactions on Database Systems*, 34(4):19:1–19:??, December 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cahill:2009:SIS

[740] Michael J. Cahill, Uwe Röhm, and Alan D. Fekete. Serializable isolation for snapshot databases. *ACM Transactions on Database Systems*, 34(4): 20:1–20:??, December 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

He:2009:RQC

[741] Bingsheng He, Mian Lu, Ke Yang, Rui Fang, Naga K. Govindaraju, Qiong Luo, and Pedro V. Sander. Relational query coprocessing on graphics processors. *ACM Transactions on Database Systems*, 34(4):21:1–21:??, December 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Arenas:2009:RSM

[742] Marcelo Arenas, Jorge Pérez, and Cristian Riveros. The recovery of a schema mapping: Bringing exchanged data back. *ACM Transactions on Database Systems*, 34(4):22:1–22:??, December 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Abiteboul:2009:SAA

[743] Serge Abiteboul, Luc Segoufin, and Victor Vianu. Static analysis of active XML systems. *ACM Transactions on Database Systems*, 34(4):

23:1–23:??, December 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Chow:2009:CQP

[744] Chi-Yin Chow, Mohamed F. Mokbel, and Walid G. Aref. Casper*: Query processing for location services without compromising privacy. *ACM Transactions on Database Systems*, 34(4): 24:1–24:??, December 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Benedikt:2009:XRL

[745] Michael Benedikt and Christoph Koch. From XQuery to relational logics. *ACM Transactions on Database Systems*, 34(4):25:1–25:??, December 2009. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ghanem:2010:SVD

[746] Thanaa M. Ghanem, Ahmed K. Elmagarmid, Per-Åke Larson, and Walid G. Aref. Supporting views in data stream management systems. *ACM Transactions on Database Systems*, 35(1): 1:1–1:??, February 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Wu:2010:AML

[747] Kesheng Wu, Arie Shoshani, and Kurt Stockinger. Analyses of multi-level and multi-component compressed bitmap indexes. *ACM Transactions on Database Systems*, 35(1):2:1–2:??, February 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Lian:2010:RSS

[748] Xiang Lian and Lei Chen. Reverse skyline search in uncertain databases. *ACM Transactions on Database Systems*, 35(1):3:1–3:??, February 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Augsten:2010:GDB

[749] Nikolaus Augsten, Michael Böhlen, and Johann Gamper. The *pq*-gram distance between ordered labeled trees. *ACM Transactions on Database Systems*, 35(1):4:1–4:??, February 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kolahi:2010:ITA

[750] Solmaz Kolahi and Leonid Libkin. An information-theoretic analysis of worst-case redundancy in database design. *ACM Transactions on Database Systems*, 35(1):5:1–5:??, February 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Schnaitter:2010:OAE

[751] Karl Schnaitter and Neoklis Polyzotis. Optimal algorithms for evaluating rank joins in database systems. *ACM Transactions on Database Systems*, 35 (1):6:1–6:??, February 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Soror:2010:AVM

[752] Ahmed A. Soror, Umar Farooq Minhas, Ashraf Aboulnaga, Kenneth Salem, Peter Kokosielis, and Sunil Kamath. Automatic virtual machine configuration for database workloads. *ACM Transactions on Database Systems*, 35(1):

7:1–7:??, February 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Xiao:2010:TAT

[753] Xiaokui Xiao, Yufei Tao, and Nick Koudas. Transparent anonymization: Thwarting adversaries who know the algorithm. *ACM Transactions on Database Systems*, 35(2):8:1–8:??, April 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

U:2010:OMB

[754] Leong Hou U., Kyriakos Mouratidis, Man Lung Yiu, and Nikos Mamoulis. Optimal matching between spatial datasets under capacity constraints. *ACM Transactions on Database Systems*, 35(2):9:1–9:??, April 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Liu:2010:RSI

[755] Ziyang Liu and Yi Chen. Return specification inference and result clustering for keyword search on XML. *ACM Transactions on Database Systems*, 35 (2):10:1–10:??, April 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bex:2010:ICR

[756] Geert Jan Bex, Frank Neven, Thomas Schwentick, and Stijn Vansummeren. Inference of concise regular expressions and DTDs. *ACM Transactions on Database Systems*, 35(2):11:1–11:??, April 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

DeCapitaniDiVimercati:2010:EPR

[757] Sabrina De Capitani Di Vimercati, Sara Foresti, Sushil Jajodia, Stefano Paraboschi, and Pierangela Samarati. Encryption policies for regulating access to outsourced data. *ACM Transactions on Database Systems*, 35(2): 12:1–12:??, April 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Koutrika:2010:PQB

[758] Georgia Koutrika and Yannis Ioannidis. Personalizing queries based on networks of composite preferences. *ACM Transactions on Database Systems*, 35 (2):13:1–13:??, April 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Flesca:2010:QRI

[759] Sergio Flesca, Filippo Furfaro, and Francesco Parisi. Querying and repairing inconsistent numerical databases. *ACM Transactions on Database Systems*, 35(2):14:1–14:??, April 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Liu:2010:CIE

[760] Hongyan Liu, Xiaoyu Wang, and Yinghui Yang. Comments on "An integrated efficient solution for computing frequent and top-k elements in data streams". *ACM Transactions on Database Systems*, 35(2):15:1–15:??, April 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). See [648].

Graefe:2010:SBT

[761] Goetz Graefe. A survey of B-tree locking techniques. *ACM Transactions*

on Database Systems, 35(3):16:1–16:??, July 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Chen:2010:COI

[762] Su Chen, Mario A. Nascimento, Beng Chin Ooi, and Kian-Lee Tan. Continuous online index tuning in moving object databases. *ACM Transactions on Database Systems*, 35(3):17:1–17:??, July 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Hu:2010:PAL

[763] Haibo Hu, Jianliang Xu, Sai Tung On, Jing Du, and Joseph Kee-Yin Ng. Privacy-aware location data publishing. *ACM Transactions on Database Systems*, 35(3):18:1–18:??, July 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Liu:2010:IXS

[764] Ziyang Liu, Yu Huang, and Yi Chen. Improving XML search by generating and utilizing informative result snippets. *ACM Transactions on Database Systems*, 35(3):19:1–19:??, July 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Tao:2010:EAN

[765] Yufei Tao, Ke Yi, Cheng Sheng, and Panos Kalnis. Efficient and accurate nearest neighbor and closest pair search in high-dimensional space. *ACM Transactions on Database Systems*, 35 (3):20:1–20:??, July 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Nash:2010:VQD

[766] Alan Nash, Luc Segoufin, and Victor Vianu. Views and queries: Determinacy and rewriting. *ACM Transactions on Database Systems*, 35(3):21:1–21:??, July 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Denecker:2010:TLR

[767] Marc Denecker, Álvaro Cortés-Calabuig, Maurice Bruynooghes, and Ofer Arieli. Towards a logical reconstruction of a theory for locally closed databases. *ACM Transactions on Database Systems*, 35(3):22:1–22:??, July 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ozsoyoglu:2010:FTI

[768] Z. Meral Özsoyoglu. Foreword to TODS invited papers issue. *ACM Transactions on Database Systems*, 35 (4):23:1–23:??, November 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ivanova:2010:ARI

[769] Milena G. Ivanova, Martin L. Kersten, Niels J. Nes, and Romulo A. P. Gonçalves. An architecture for recycling intermediates in a column-store. *ACM Transactions on Database Systems*, 35(4):24:1–24:??, November 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ghoting:2010:EAS

[770] Amol Ghoting and Konstantin Makarychev. I/O efficient algorithms for serial and parallel suffix tree construction. *ACM Transactions on Database Systems*, 35

(4):25:1–25:??, November 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Berinde:2010:SOH

[771] Radu Berinde, Piotr Indyk, Graham Cormode, and Martin J. Strauss. Space-optimal heavy hitters with strong error bounds. *ACM Transactions on Database Systems*, 35(4): 26:1–26:??, November 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fan:2010:RIC

[772] Wenfei Fan and Floris Geerts. Relative information completeness. *ACM Transactions on Database Systems*, 35 (4):27:1–27:??, November 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fletcher:2010:TTS

[773] George H. L. Fletcher, Jan Van Den Bussche, Dirk Van Gucht, and Stijn Vansummeren. Towards a theory of search queries. *ACM Transactions on Database Systems*, 35(4):28:1–28:??, November 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bjorklund:2010:IXE

[774] Henrik Björklund, Wouter Gelade, and Wim Martens. Incremental XPath evaluation. *ACM Transactions on Database Systems*, 35(4):29:1–29:??, November 2010. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Wang:2011:OPD

[775] Ting Wang and Ling Liu. Output privacy in data mining. *ACM Transactions on Database Systems*, 36 (1):1:1–1:??, March 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Nergiz:2011:IA

[776] Mehmet Ercan Nergiz, Acar Tamersoy, and Yucel Saygin. Instant anonymization. *ACM Transactions on Database Systems*, 36(1):2:1–2:??, March 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Gross-Amblard:2011:QPW

[777] David Gross-Amblard. Query-preserving watermarking of relational databases and XML documents. *ACM Transactions on Database Systems*, 36 (1):3:1–3:??, March 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Termehchy:2011:USI

[778] Arash Termehchy and Marianne Winslett. Using structural information in XML keyword search effectively. *ACM Transactions on Database Systems*, 36(1):4:1–4:??, March 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cautis:2011:QXD

[779] Bogdan Cautis, Alin Deutsch, Nicola Onose, and Vasilis Vassalos. Querying XML data sources that export very large sets of views. *ACM Transactions on Database Systems*, 36(1):5:1–5:??, March 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Liu:2011:GSW

[780] Ziyang Liu, Susan B. Davidson, and Yi Chen. Generating sound workflow views for correct provenance analysis. *ACM Transactions on Database Systems*, 36(1):6:1–6:??, March 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jin:2011:PTE

[781] Ruoming Jin, Ning Ruan, Yang Xiang, and Haixun Wang. Path-tree: An efficient reachability indexing scheme for large directed graphs. *ACM Transactions on Database Systems*, 36 (1):7:1–7:??, March 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Law:2011:RLD

[782] Yan-Nei Law, Haixun Wang, and Carlo Zaniolo. Relational languages and data models for continuous queries on sequences and data streams. *ACM Transactions on Database Systems*, 36 (2):8:1–8:??, May 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Gao:2011:CNN

[783] Yunjun Gao, Baihua Zheng, Gang Chen, Chun Chen, and Qing Li. Continuous nearest-neighbor search in the presence of obstacles. *ACM Transactions on Database Systems*, 36(2):9:1–9:??, May 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Yiu:2011:DAR

[784] Man Lung Yiu, Christian S. Jensen, Jesper Møller, and Hua Lu. Design and analysis of a ranking approach to private location-based services. *ACM Transactions on Database Systems*, 36 (2):10:1–10:??, May 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fagin:2011:RDE

[785] Ronald Fagin, Phokion G. Kolaitis, Lucian Popa, and Wang-Chiew Tan. Reverse data exchange: Coping with nulls. *ACM Transactions on Database Systems*, 36(2):11:1–11:??, May 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Atallah:2011:AEA

[786] Mikhail J. Atallah, Yinian Qi, and Hao Yuan. Asymptotically efficient algorithms for skyline probabilities of uncertain data. *ACM Transactions on Database Systems*, 36(2):12:1–12:28, May 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Lee:2011:RAF

[787] Tony T. Lee and Tong Ye. A relational approach to functional decomposition of logic circuits. *ACM Transactions on Database Systems*, 36 (2):13:1–13:??, May 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Hernich:2011:CWD

[788] André Hernich, Leonid Libkin, and Nicole Schweikardt. Closed world data exchange. *ACM Transactions on Database Systems*, 36(2):14:1–14:40, May 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Xiao:2011:ESJ

[789] Chuan Xiao, Wei Wang, Xuemin Lin, Jeffrey Xu Yu, and Guoren Wang. Efficient similarity joins for near-duplicate detection. *ACM Transactions on Database Systems*, 36(3): 15:1–15:41, August 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Song:2011:DDR

[790] Shaoxu Song and Lei Chen. Differential dependencies: Reasoning and discovery. *ACM Transactions on Database Systems*, 36(3):16:1–16:41, August 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). See comments [911] and response [958].

Papapetrou:2011:EBS

[791] Panagiotis Papapetrou, Vassilis Athitsos, Michalis Potamias, George Kollios, and Dimitrios Gunopulos. Embedding-based subsequence matching in time-series databases. *ACM Transactions on Database Systems*, 36(3):17:1–17:39, August 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jampani:2011:MCD

[792] Ravi Jampani, Fei Xu, Mingxi Wu, Luis Perez, Chris Jermaine, and Peter J. Haas. The Monte Carlo database system: Stochastic analysis close to the data. *ACM Transactions on Database Systems*, 36(3): 18:1–18:41, August 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Stefanidis:2011:SRC

[793] Kostas Stefanidis, Georgia Koutrika, and Evaggelia Pitoura. A survey on representation, composition and application of preferences in database systems. *ACM Transactions on Database Systems*, 36(3):19:1–19:45, August 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ozsoyoglu:2011:FTI

[794] Z. Meral Özsoyoglu. Foreword to TODS invited papers issue 2011. *ACM Transactions on Database Systems*, 36 (4):20:1–20:2, December 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cheng:2011:FMC

[795] James Cheng, Yiping Ke, Ada Wai-Chee Fu, Jeffrey Xu Yu, and Linhong Zhu. Finding maximal cliques in massive networks. *ACM Transactions on Database Systems*, 36(4): 21:1–21:34, December 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kim:2011:DFA

[796] Changkyu Kim, Jatin Chhugani, Nadathur Satish, Eric Sedlar, Anthony D. Nguyen, Tim Kaldewey, Victor W. Lee, Scott A. Brandt, and Pradeep Dubey. Designing fast architecture-sensitive tree search on modern multicore/many-core processors. *ACM Transactions on Database Systems*, 36 (4):22:1–22:34, December 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Alexe:2011:CSM

[797] Bogdan Alexe, Balder ten Cate, Phokion G. Kolaitis, and Wang-Chiew Tan. Characterizing schema mappings via data examples. *ACM Transactions on Database Systems*, 36(4): 23:1–23:48, December 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cohen:2011:BET

[798] Sara Cohen and Yaacov Y. Weiss. Bag equivalence of tree patterns. *ACM Transactions on Database Systems*, 36 (4):24:1–24:35, December 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Abiteboul:2011:CCD

[799] Serge Abiteboul, T.-H. Hubert Chan, Evgeny Kharlamov, Werner Nutt, and Pierre Senellart. Capturing continuous data and answering aggregate queries in probabilistic XML. *ACM Transactions on Database Systems*, 36(4): 25:1–25:45, December 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bai:2011:CPT

[800] Xiao Bai, Rachid Guerraoui, Anne-Marie Kermarrec, and Vincent Leroy. Collaborative personalized top-k processing. *ACM Transactions on Database Systems*, 36(4):26:1–26:38, December 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Goncalves:2011:DCQ

[801] Romulo Goncalves and Martin Kersten. The Data Cyclotron query processing scheme. *ACM Transactions on Database Systems*, 36(4):27:1–27:35, December 2011. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Graefe:2012:SBT

[802] Goetz Graefe. A survey of B-tree logging and recovery techniques. *ACM Transactions on Database Systems*, 37 (1):1:1–1:35, February 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Martinenghi:2012:PMR

[803] Davide Martinenghi and Marco Tagliasacchi. Proximity measures for rank join. *ACM Transactions on Database Systems*, 37(1):2:1–2:46, February 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Nuray-Turan:2012:AOS

[804] Rabia Nuray-Turan, Dmitri V. Kalashnikov, Sharad Mehrotra, and Yaming Yu. Attribute and object selection queries on objects with probabilistic attributes. *ACM Transactions on Database Systems*, 37(1): 3:1–3:??, February 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Liu:2012:DSR

[805] Ziyang Liu and Yi Chen. Differentiating search results on structured data. *ACM Transactions on Database Systems*, 37(1):4:1–4:??, February 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Yang:2012:SES

[806] Di Yang, Elke A. Rundensteiner, and Matthew O. Ward. Shared execu-

tion strategy for neighbor-based pattern mining requests over streaming windows. *ACM Transactions on Database Systems*, 37(1):5:1–5:??, February 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Re:2012:UCE

[807] Christopher Ré and D. Suciu. Understanding cardinality estimation using entropy maximization. *ACM Transactions on Database Systems*, 37(1): 6:1–6:??, February 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Nuray-Turan:2012:EWQ

[808] Rabia Nuray-Turan, Dmitri V. Kalashnikov, and Sharad Mehrotra. Exploiting Web querying for Web people search. *ACM Transactions on Database Systems*, 37(1):7:1–7:??, February 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Schneider:2012:CDB

[809] Markus Schneider, Tao Chen, Ganesh Viswanathan, and Wenjie Yuan. Cardinal directions between complex regions. *ACM Transactions on Database Systems*, 37(2):8:1–8:??, May 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Wijsen:2012:CCQ

[810] Jef Wijsen. Certain conjunctive query answering in first-order logic. *ACM Transactions on Database Systems*, 37 (2):9:1–9:??, May 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Abiteboul:2012:CWS

[811] Serge Abiteboul, Pierre Bourhis, and Victor Vianu. Comparing workflow specification languages: a matter of views. *ACM Transactions on Database Systems*, 37(2):10:1–10:??, May 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Tassa:2012:SDC

[812] Tamir Tassa and Ehud Gudes. Secure distributed computation of anonymized views of shared databases. *ACM Transactions on Database Systems*, 37 (2):11:1–11:??, May 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sheng:2012:EAA

[813] Cheng Sheng, Yufei Tao, and Jianzhong Li. Exact and approximate algorithms for the most connected vertex problem. *ACM Transactions on Database Systems*, 37(2):12:1–12:??, May 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Hartmann:2012:IPD

[814] Sven Hartmann and Sebastian Link. The implication problem of data dependencies over SQL table definitions: Axiomatic, algorithmic and logical characterizations. *ACM Transactions on Database Systems*, 37(2):13:1–13:??, May 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Zhang:2012:SS

[815] Wenjie Zhang, Xuemin Lin, Ying Zhang, Muhammad Aamir Cheema,

and Qing Zhang. Stochastic skylines. *ACM Transactions on Database Systems*, 37(2):14:1–14:??, May 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Xia:2012:OSS

[816] Tian Xia, Donghui Zhang, Zheng Fang, Cindy Chen, and Jie Wang. Online subspace skyline query processing using the Compressed SkyCube. *ACM Transactions on Database Systems*, 37 (2):15:1–15:??, May 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ozsoyoglu:2012:Fa

[817] Z. Meral Özsoyoglu. Foreword. *ACM Transactions on Database Systems*, 37 (3):16:1–16:??, August 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Graefe:2012:FBT

[818] Goetz Graefe, Hideaki Kimura, and Harumi Kuno. Foster B-trees. *ACM Transactions on Database Systems*, 37 (3):17:1–17:??, August 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Wang:2012:RAT

[819] Junhu Wang and Jeffrey Xu Yu. Revisiting answering tree pattern queries using views. *ACM Transactions on Database Systems*, 37(3):18:1–18:??, August 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

David:2012:ERA

[820] Claire David, Leonid Libkin, and Tony Tan. Efficient reasoning about data trees via integer linear programming. *ACM Transactions on Database Systems*, 37(3):19:1–19:??, August 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Lemire:2012:RRB

[821] Daniel Lemire, Owen Kaser, and Eduardo Gutarra. Reordering rows for better compression: Beyond the lexicographic order. *ACM Transactions on Database Systems*, 37(3):20:1–20:??, August 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Gupta:2012:EQE

[822] Nitin Gupta, Lucja Kot, Sudip Roy, Gabriel Bender, Johannes Gehrke, and Christoph Koch. Entangled queries: Enabling declarative data-driven coordination. *ACM Transactions on Database Systems*, 37(3):21:1–21:??, August 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Damaggio:2012:ASD

[823] Elio Damaggio, Alin Deutsch, and Victor Vianu. Artifact systems with data dependencies and arithmetic. *ACM Transactions on Database Systems*, 37 (3):22:1–22:??, August 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ozsoyoglu:2012:Fb

[824] Z. Meral Özsoyoglu. Foreword. *ACM Transactions on Database Systems*, 37 (4):23:1–23:??, December 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kimelfeld:2012:MCV

[825] Benny Kimelfeld, Jan Vondrák, and Ryan Williams. Maximizing conjunctive views in deletion propagation. *ACM Transactions on Database Systems*, 37(4):24:1–24:??, December 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fan:2012:DCD

[826] Wenfei Fan, Floris Geerts, and Jef Wijsen. Determining the currency of data. *ACM Transactions on Database Systems*, 37(4):25:1–25:??, December 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sheng:2012:WCE

[827] Cheng Sheng and Yufei Tao. Worst-case I/O-efficient skyline algorithms. *ACM Transactions on Database Systems*, 37(4):26:1–26:??, December 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Li:2012:SPS

[828] Boduo Li, Edward Mazur, Yanlei Diao, Andrew McGregor, and Prashant Shenoy. SCALLA: a platform for scalable one-pass analytics using MapReduce. *ACM Transactions on Database Systems*, 37(4):27:1–27:??, December 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Li:2012:WHT

[829] Yinan Li, Jignesh M. Patel, and Allison Terrell. WHAM: a high-throughput sequence alignment method. *ACM Transactions on Database Systems*, 37 (4):28:1–28:??, December 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Xie:2012:FAS

[830] Kexin Xie, Ke Deng, Shuo Shang, Xiaofang Zhou, and Kai Zheng. Finding alternative shortest paths in spatial networks. *ACM Transactions on Database Systems*, 37(4):29:1–29:??, December 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Amsterdamer:2012:PM

[831] Yael Amsterdamer, Daniel Deutch, Tova Milo, and Val Tannen. On provenance minimization. *ACM Transactions on Database Systems*, 37(4): 30:1–30:??, December 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Barcelo:2012:ELP

[832] Pablo Barceló, Leonid Libkin, Anthony W. Lin, and Peter T. Wood. Expressive languages for path queries over graph-structured data. *ACM Transactions on Database Systems*, 37(4): 31:1–31:??, December 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cong:2012:PED

[833] Gao Cong, Wenfei Fan, Anastasios Kementsietsidis, Jianzhong Li, and Xianmin Liu. Partial evaluation for distributed XPath query processing and beyond. *ACM Transactions on Database Systems*, 37(4):32:1–32:??, December 2012. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Papavasileiou:2013:HLC

[834] Vicky Papavasileiou, Giorgos Flouris, Irini Fundulaki, Dimitris Kotzinos,

and Vassilis Christophides. High-level change detection in RDF(S) KBs. *ACM Transactions on Database Systems*, 38 (1):1:1–1:??, April 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jaiswal:2013:SME

[835] Anuj Jaiswal, David J. Miller, and Prasenjit Mitra. Schema matching and embedded value mapping for databases with opaque column names and mixed continuous and discrete-valued data fields. *ACM Transactions on Database Systems*, 38(1):2:1–2:??, April 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Grust:2013:OSQ

[836] Torsten Grust and Jan Rittinger. Observing SQL queries in their natural habitat. *ACM Transactions on Database Systems*, 38(1):3:1–3:??, April 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Benzaken:2013:OXQ

[837] Véronique Benzaken, Giuseppe Castagna, Dario Colazzo, and Kim Nguy´ên. Optimizing XML querying using type-based document projection. *ACM Transactions on Database Systems*, 38 (1):4:1–4:??, April 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Das:2013:EES

[838] Sudipto Das, Divyakant Agrawal, and Amr El Abbadi. ElasTraS: an elastic, scalable, and self-managing transactional database for the cloud. *ACM Transactions on Database Systems*, 38 (1):5:1–5:??, April 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Franceschet:2013:GTA

[839] Massimo Franceschet, Donatella Gubiani, Angelo Montanari, and Carla Piazza. A graph-theoretic approach to map conceptual designs to XML schemas. *ACM Transactions on Database Systems*, 38(1):6:1–6:??, April 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Wu:2013:MSK

[840] Dingming Wu, Man Lung Yiu, and Christian S. Jensen. Moving spatial keyword queries: Formulation, methods, and analysis. *ACM Transactions on Database Systems*, 38(1):7:1–7:??, April 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sadoghi:2013:AOB

[841] Mohammad Sadoghi and Hans-Arno Jacobsen. Analysis and optimization for Boolean expression indexing. *ACM Transactions on Database Systems*, 38 (2):8:1–8:??, June 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Li:2013:PBM

[842] Guoliang Li, Dong Deng, and Jianhua Feng. A partition-based method for string similarity joins with edit-distance constraints. *ACM Transactions on Database Systems*, 38(2):9:1–9:??, June 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Catallo:2013:TKD

[843] Ilio Catallo, Eleonora Ciceri, Piero Fraternali, Davide Martinenghi, and Marco Tagliasacchi. Top-k diversity queries over bounded regions. *ACM Transactions on Database Systems*, 38 (2):10:1–10:??, June 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fazzinga:2013:RDC

[844] Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, and Elio Masciari. RFID-data compression for supporting aggregate queries. *ACM Transactions on Database Systems*, 38(2):11:1–11:??, June 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Pavlou:2013:GDF

[845] Kyriacos E. Pavlou and Richard T. Snodgrass. Generalizing database forensics. *ACM Transactions on Database Systems*, 38(2):12:1–12:??, June 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cheney:2013:RFN

[846] James Cheney. Revisiting "forward node-selecting queries over trees". *ACM Transactions on Database Systems*, 38(2):13:1–13:??, June 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bonifati:2013:AIM

[847] Angela Bonifati, Martin Goodfellow, Ioana Manolescu, and Domenica Sileo. Algebraic incremental maintenance of XML views. *ACM Transactions on Database Systems*, 38(3):14:1–14:??, August 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Colazzo:2013:ALI

[848] Dario Colazzo, Giorgio Ghelli, Luca Pardini, and Carlo Sartiani. Almost-linear inclusion for XML regular expression types. *ACM Transactions on Database Systems*, 38(3):15:1–15:??, August 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Qin:2013:ASS

[849] Jianbin Qin, Wei Wang, Chuan Xiao, Yifei Lu, Xuemin Lin, and Haixun Wang. Asymmetric signature schemes for efficient exact edit similarity query processing. *ACM Transactions on Database Systems*, 38(3):16:1–16:??, August 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Levandoski:2013:FEP

[850] Justin J. Levandoski, Ahmed Eldawy, Mohamed F. Mokbel, and Mohamed E. Khalefa. Flexible and extensible preference evaluation in database systems. *ACM Transactions on Database Systems*, 38(3):17:1–17:??, August 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fan:2013:IGP

[851] Wenfei Fan, Xin Wang, and Yinghui Wu. Incremental graph pattern matching. *ACM Transactions on Database Systems*, 38(3):18:1–18:??, August 2013. CODEN ATDSD3. ISSN

0362-5915 (print), 1557-4644 (electronic).

Karvounarakis:2013:CDS

[852] Grigoris Karvounarakis, Todd J. Green, Zachary G. Ives, and Val Tannen. Collaborative data sharing via update exchange and provenance. *ACM Transactions on Database Systems*, 38 (3):19:1–19:??, August 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ozsoyoglu:2013:FIP

[853] Z. Meral Özsoyoglu. Foreword to invited papers issue. *ACM Transactions on Database Systems*, 38(4): 20:1–20:??, November 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Mozafari:2013:HPC

[854] Barzan Mozafari, Kai Zeng, Loris D'antoni, and Carlo Zaniolo. High-performance complex event processing over hierarchical data. *ACM Transactions on Database Systems*, 38(4): 21:1–21:??, November 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sarma:2013:CTL

[855] Anish Das Sarma, Hongrae Lee, Hector Gonzalez, Jayant Madhavan, and Alon Halevy. Consistent thinning of large geographical data for map visualization. *ACM Transactions on Database Systems*, 38(4):22:1–22:??, November 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Teubner:2013:XFB

[856] Jens Teubner, Louis Woods, and Chongling Nie. XLynx — an FPGA-based XML filter for hybrid XQuery processing. *ACM Transactions on Database Systems*, 38(4):23:1–23:??, November 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Losemann:2013:CRE

[857] Katja Losemann and Wim Martens. The complexity of regular expressions and property paths in SPARQL. *ACM Transactions on Database Systems*, 38 (4):24:1–24:??, November 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Letelier:2013:SAO

[858] Andrés Letelier, Jorge Pérez, Reinhard Pichler, and Sebastian Skritek. Static analysis and optimization of Semantic Web queries. *ACM Transactions on Database Systems*, 38(4): 25:1–25:??, November 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Agarwal:2013:MS

[859] Pankaj K. Agarwal, Graham Cormode, Zengfeng Huang, Jeff M. Phillips, Zhewei Wei, and Ke Yi. Mergeable summaries. *ACM Transactions on Database Systems*, 38(4):26:1–26:??, November 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Konrad:2013:VXD

[860] Christian Konrad and Frédéric Magniez. Validating XML documents in the

streaming model with external memory. *ACM Transactions on Database Systems*, 38(4):27:1–27:??, November 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cate:2013:LSM

[861] Balder Ten Cate, Víctor Dalmau, and Phokion G. Kolaitis. Learning schema mappings. *ACM Transactions on Database Systems*, 38(4): 28:1–28:??, November 2013. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kostylev:2014:CAS

[862] Egor V. Kostylev, Juan L. Reutter, and András Z. Salamon. Classification of annotation semirings over containment of conjunctive queries. *ACM Transactions on Database Systems*, 39 (1):1:1–1:??, January 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Yi:2014:ISQ

[863] Ke Yi, Lu Wang, and Zhewei Wei. Indexing for summary queries: Theory and practice. *ACM Transactions on Database Systems*, 39(1):2:1–2:??, January 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kifer:2014:PFM

[864] Daniel Kifer and Ashwin Machanavajjhala. Pufferfish: a framework for mathematical privacy definitions. *ACM Transactions on Database Systems*, 39 (1):3:1–3:??, January 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ma:2014:SSC

[865] Shuai Ma, Yang Cao, Wenfei Fan, Jinpeng Huai, and Tianyu Wo. Strong simulation: Capturing topology in graph pattern matching. *ACM Transactions on Database Systems*, 39(1): 4:1–4:??, January 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Gatterbauer:2014:OBP

[866] Wolfgang Gatterbauer and Dan Suciu. Oblivious bounds on the probability of Boolean functions. *ACM Transactions on Database Systems*, 39 (1):5:1–5:??, January 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fang:2014:MOP

[867] Qiong Fang, Wilfred Ng, Jianlin Feng, and Yuliang Li. Mining order-preserving submatrices from probabilistic matrices. *ACM Transactions on Database Systems*, 39(1):6:1–6:??, January 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Wang:2014:ESS

[868] Jiannan Wang, Guoliang Li, and Jianhua Feng. Extending string similarity join to tolerant fuzzy token matching. *ACM Transactions on Database Systems*, 39(1):7:1–7:??, January 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sen:2014:DRM

[869] Siddhartha Sen and Robert E. Tarjan. Deletion without rebalancing in

multiway search trees. *ACM Transactions on Database Systems*, 39(1): 8:1–8:??, January 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Nekrich:2014:ERS

[870] Yakov Nekrich. Efficient range searching for categorical and plain data. *ACM Transactions on Database Systems*, 39 (1):9:1–9:??, January 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Xu:2014:OCP

[871] Pan Xu and Srikanta Tirthapura. Optimality of clustering properties of space-filling curves. *ACM Transactions on Database Systems*, 39(2):10:1–10:??, May 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Thomson:2014:FDT

[872] Alexander Thomson, Thaddeus Diamond, Shu-Chun Weng, Kun Ren, Philip Shao, and Daniel J. Abadi. Fast distributed transactions and strongly consistent replication for OLTP database systems. *ACM Transactions on Database Systems*, 39(2): 11:1–11:??, May 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Nykiel:2014:SAM

[873] Tomasz Nykiel, Michalis Potamias, Chaitanya Mishra, George Kollios, and Nick Koudas. Sharing across multiple MapReduce jobs. *ACM Transactions on Database Systems*, 39(2):12:1–12:??, May 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Lu:2014:EAC

[874] Ying Lu, Jiaheng Lu, Gao Cong, Wei Wu, and Cyrus Shahabi. Efficient algorithms and cost models for reverse spatial-keyword k-nearest neighbor search. *ACM Transactions on Database Systems*, 39(2):13:1–13:??, May 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bartolini:2014:DPW

[875] Ilaria Bartolini, Paolo Ciaccia, and Marco Patella. Domination in the probabilistic world: Computing skylines for arbitrary correlations and ranking semantics. *ACM Transactions on Database Systems*, 39(2):14:1–14:??, May 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Deng:2014:CQR

[876] Ting Deng and Wenfei Fan. On the complexity of query result diversification. *ACM Transactions on Database Systems*, 39(2):15:1–15:??, May 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Giatrakos:2014:DGQ

[877] Nikos Giatrakos, Antonios Deligiannakis, Minos Garofalakis, Izchak Sharfman, and Assaf Schuster. Distributed geometric query monitoring using prediction models. *ACM Transactions on Database Systems*, 39(2):16:1–16:??, May 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Lei:2014:RDQ

[878] Chuan Lei and Elke A. Rundensteiner. Robust distributed query processing for streaming data. *ACM Transactions on Database Systems*, 39(2):17:1–17:??, May 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jensen:2014:E

[879] Christian S. Jensen. Editorial. *ACM Transactions on Database Systems*, 39 (3):18:1–18:??, September 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Zhang:2014:TPI

[880] Rui Zhang, Jianzhong Qi, Martin Stradling, and Jin Huang. Towards a painless index for spatial objects. *ACM Transactions on Database Systems*, 39 (3):19:1–19:??, September 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Tatti:2014:FRI

[881] Nikolaj Tatti, Fabian Moerchen, and Toon Calders. Finding robust itemsets under subsampling. *ACM Transactions on Database Systems*, 39(3): 20:1–20:??, September 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Choi:2014:MRS

[882] Dong-Wan Choi, Chin-Wan Chung, and Yufei Tao. Maximizing range sum in external memory. *ACM Transactions on Database Systems*, 39(3): 21:1–21:??, September 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Karwa:2014:PAG

[883] Vishesh Karwa, Sofya Raskhodnikova, Adam Smith, and Grigory Yaroslavtsev. Private analysis of graph structure. *ACM Transactions on Database Systems*, 39(3):22:1–22:??, September 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Pang:2014:PPA

[884] Hweehwa Pang and Xuhua Ding. Privacy-preserving ad-hoc equi-join on outsourced data. *ACM Transactions on Database Systems*, 39(3):23:1–23:??, September 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Malvestuto:2014:JLO

[885] Francesco M. Malvestuto. A join-like operator to combine data cubes and answer queries from multiple data cubes. *ACM Transactions on Database Systems*, 39(3):24:1–24:??, September 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Gottlob:2014:QRO

[886] Georg Gottlob, Giorgio Orsi, and Andreas Pieris. Query rewriting and optimization for ontological databases. *ACM Transactions on Database Systems*, 39(3):25:1–25:??, September 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jensen:2014:FIA

[887] Christian S. Jensen. Foreword to invited articles issue. *ACM Transactions on Database Systems*, 39(4): 26:1–26:??, December 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Hu:2014:EAT

[888] Xiaocheng Hu, Yufei Tao, and Chin-Wan Chung. I/O-efficient algorithms on triangle listing and counting. *ACM Transactions on Database Systems*, 39 (4):27:1–27:??, December 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Arenas:2014:DXK

[889] Marcelo Arenas, Jonny Daenen, Frank Neven, Martin Ugarte, Jan Van Den Bussche, and Stijn Vansummeren. Discovering XSD keys from XML data. *ACM Transactions on Database Systems*, 39(4):28:1–28:??, December 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jung:2014:SLM

[890] Hyungsoo Jung, Hyuck Han, Alan Fekete, Gernot Heiser, and Heon Y. Yeom. A scalable lock manager for multicores. *ACM Transactions on Database Systems*, 39(4):29:1–29:??, December 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Papadopoulos:2014:LQA

[891] Stavros Papadopoulos, Graham Cormode, Antonios Deligiannakis, and Minos Garofalakis. Lightweight query authentication on streams. *ACM Transactions on Database Systems*, 39(4): 30:1–30:??, December 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Gheerbrant:2014:NEQ

[892] Amélie Gheerbrant, Leonid Libkin, and Cristina Sirangelo. Naïve evaluation of queries over incomplete databases. *ACM Transactions on Database Systems*, 39(4):31:1–31:??, December 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kimelfeld:2014:CMM

[893] Benny Kimelfeld and Phokion G. Kolaitis. The complexity of mining maximal frequent subgraphs. *ACM Transactions on Database Systems*, 39(4): 32:1–32:??, December 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bienvenu:2014:OBD

[894] Meghyn Bienvenu, Balder Ten Cate, Carsten Lutz, and Frank Wolter. Ontology-based data access: a study through disjunctive Datalog, CSP, and MMSNP. *ACM Transactions on Database Systems*, 39(4):33:1–33:??, December 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Li:2014:TPP

[895] Chao Li, Daniel Yang Li, Gerome Miklau, and Dan Suciu. A theory of pricing private data. *ACM Transactions on Database Systems*, 39(4): 34:1–34:??, December 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Davidson:2014:TCN

[896] Susan Davidson, Sanjeev Khanna, Tova Milo, and Sudeepa Roy. Top-k and clustering with noisy comparisons. *ACM Transactions on Database Systems*, 39(4):35:1–35:??, December 2014. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jensen:2015:EUE

[897] Christian S. Jensen. Editorial: Updates to the editorial board. *ACM Transactions on Database Systems*, 40 (1):1:1–1:??, March 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Pripuzic:2015:TSE

[898] Kresimir Pripužić, Ivana Podnar Zarko, and Karl Aberer. Time- and space-efficient sliding window top-k query processing. *ACM Transactions on Database Systems*, 40(1):1:1–1:??, March 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Olteanu:2015:SBF

[899] Dan Olteanu and Jakub Závodný. Size bounds for factorised representations of query results. *ACM Transactions on Database Systems*, 40(1):2:1–2:??, March 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Pawlik:2015:ECT

[900] Mateusz Pawlik and Nikolaus Augsten. Efficient computation of the tree edit distance. *ACM Transactions on Database Systems*, 40(1):3:1–3:??, March 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Drosou:2015:MRD

[901] Marina Drosou and Evaggelia Pitoura. Multiple radii DisC diversity: Result diversification based on dissimilarity and coverage. *ACM Transactions on Database Systems*, 40(1):4:1–4:??, March 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Benedikt:2015:ASA

[902] Michael Benedikt, Pierre Bourhis, and Clemens Ley. Analysis of schemas with access restrictions. *ACM Transactions on Database Systems*, 40(1):5:1–5:??, March 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Athanassoulis:2015:OUD

[903] Manos Athanassoulis, Shimin Chen, Anastasia Ailamaki, Philip B. Gibbons, and Radu Stoica. Online updates on data warehouses via judicious use of solid-state storage. *ACM Transactions on Database Systems*, 40 (1):6:1–6:??, March 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jensen:2015:EBT

[904] Christian S. Jensen. Editorial: The best of two worlds — present your TODS paper at SIGMOD. *ACM Transactions on Database Systems*, 40 (2):7:1–7:??, June 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Beedkar:2015:CGS

[905] Kaustubh Beedkar, Klaus Berberich, Rainer Gemulla, and Iris Miliaraki. Closing the gap: Sequence mining at scale. *ACM Transactions on Database Systems*, 40(2):8:1–8:??, June 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ameloot:2015:DDF

[906] Tom J. Ameloot. Deciding determinism with fairness for simple transducer networks. *ACM Transactions on Database Systems*, 40(2):9:1–9:??, June 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Nagendra:2015:EPS

[907] Mithila Nagendra and K. Selçuk Candan. Efficient processing of skyline-join queries over multiple data sources. *ACM Transactions on Database Systems*, 40(2):10:1–10:??, June 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Yuan:2015:OBL

[908] Ganzhao Yuan, Zhenjie Zhang, Marianne Winslett, Xiaokui Xiao, Yin Yang, and Zhifeng Hao. Optimizing batch linear queries under exact and approximate differential privacy. *ACM Transactions on Database Systems*, 40 (2):11:1–11:??, June 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Termehchy:2015:CEC

[909] Arash Termehchy, Ali Vakilian, Yodsawalai Chodpathumwan, and Marianne Winslett. Cost-effective conceptual design for information extraction. *ACM Transactions on Database Systems*, 40(2):12:1–12:??, June 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cao:2015:EPS

[910] Xin Cao, Gao Cong, Tao Guo, Christian S. Jensen, and Beng Chin Ooi. Efficient processing of spatial group keyword queries. *ACM Transactions on Database Systems*, 40(2):13:1–13:??, June 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Vincent:2015:TCD

[911] Millist Vincent, Jixue Liu, Hong-Cheu Liu, and Sebastian Link. Technical correspondence: "Differential Dependencies: Reasoning and Discovery" revisited. *ACM Transactions on Database Systems*, 40(2):14:1–14:??, June 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). See [790] and response [958].

Lu:2015:BQA

[912] Jiaheng Lu, Chunbin Lin, Wei Wang, Chen Li, and Xiaokui Xiao. Boosting the quality of approximate string matching by synonyms. *ACM Transactions on Database Systems*, 40(3): 15:1–15:??, October 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Rusu:2015:WDA

[913] Florin Rusu, Zixuan Zhuang, Mingxi Wu, and Chris Jermaine. Workload-driven antijoin cardinality estimation. *ACM Transactions on Database Systems*, 40(3):16:1–16:??, October 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Chen:2015:OLQ

[914] Zitong Chen, Yubao Liu, Raymond Chi-Wing Wong, Jiamin Xiong, Ganglin Mai, and Cheng Long. Optimal location queries in road networks. *ACM Transactions on Database Systems*, 40(3):17:1–17:??, October 2015.

CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Rietveld:2015:RLD

[915] Kristian F. D. Rietveld and Harry A. G. Wijshoff. Reducing layered database applications to their essence through vertical integration. *ACM Transactions on Database Systems*, 40 (3):18:1–18:??, October 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cheng:2015:SDM

[916] Yu Cheng and Florin Rusu. SCANRAW: a database meta-operator for parallel in-situ processing and loading. *ACM Transactions on Database Systems*, 40(3):19:1–19:??, October 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Parchas:2015:UGP

[917] Panos Parchas, Francesco Gullo, Dimitris Papadias, and Francesco Bonchi. Uncertain graph processing through representative instances. *ACM Transactions on Database Systems*, 40(3): 20:1–20:??, October 2015. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Ameloot:2016:WFM

[918] Tom J. Ameloot, Bas Ketsman, Frank Neven, and Daniel Zinn. Weaker forms of monotonicity for declarative networking: a more fine-grained answer to the CALM-conjecture. *ACM Transactions on Database Systems*, 40(4): 21:1–21:??, January 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bonifati:2016:LJQ

[919] Angela Bonifati, Radu Ciucanu, and Sławek Staworko. Learning join queries from user examples. *ACM Transactions on Database Systems*, 40(4): 24:1–24:??, January 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Yang:2016:NFI

[920] Xiaochun Yang, Tao Qiu, Bin Wang, Baihua Zheng, Yaoshu Wang, and Chen Li. Negative factor: Improving regular-expression matching in strings. *ACM Transactions on Database Systems*, 40(4):25:1–25:46, January 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Zhou:2016:FRW

[921] Zhuojie Zhou, Nan Zhang, Zhiguo Gong, and Gautam Das. Faster random walks by rewiring online social networks on-the-fly. *ACM Transactions on Database Systems*, 40(4): 26:1–26:??, February 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jensen:2016:EUE

[922] Christian S. Jensen. Editorial: Updates to the editorial board. *ACM Transactions on Database Systems*, 41 (1):1:1–1:??, April 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Libkin:2016:STV

[923] Leonid Libkin. SQL's three-valued logic and certain answers. *ACM Transactions on Database Systems*, 41 (1):1:1–1:??, April 2016. CODEN

ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Zhang:2016:MOF

[924] Ce Zhang, Arun Kumar, and Christopher Ré. Materialization optimizations for feature selection workloads. *ACM Transactions on Database Systems*, 41 (1):2:1–2:??, April 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Olteanu:2016:EFP

[925] Dan Olteanu and Sebastiaan J. Van Schaik. ENFrame: a framework for processing probabilistic data. *ACM Transactions on Database Systems*, 41 (1):3:1–3:??, April 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fink:2016:DQN

[926] Robert Fink and Dan Olteanu. Dichotomies for queries with negation in probabilistic databases. *ACM Transactions on Database Systems*, 41(1):4:1–4:??, April 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Zhou:2016:BEQ

[927] Xiaoling Zhou, Jianbin Qin, Chuan Xiao, Wei Wang, Xuemin Lin, and Yoshiharu Ishikawa. BEVA: an efficient query processing algorithm for error-tolerant autocompletion. *ACM Transactions on Database Systems*, 41 (1):5:1–5:??, April 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fagin:2016:DCI

[928] Ronald Fagin, Benny Kimelfeld, Frederick Reiss, and Stijn Vansummeren. Declarative cleaning of inconsistencies in information extraction. *ACM Transactions on Database Systems*, 41 (1):6:1–6:??, April 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Pham:2016:ISS

[929] Huy Pham, Cyrus Shahabi, and Yan Liu. Inferring social strength from spatiotemporal data. *ACM Transactions on Database Systems*, 41(1):7:1–7:??, April 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cheung:2016:SBL

[930] Alvin Cheung, Samuel Madden, and Armando Solar-Lezama. Sloth: Being lazy is a virtue (when issuing database queries). *ACM Transactions on Database Systems*, 41(2):8:1–8:??, June 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jensen:2016:EDC

[931] Christian S. Jensen. Editorial: The dark citations of TODS papers and what to do about it — or: Cite the journal paper. *ACM Transactions on Database Systems*, 41(2):8:1–8:??, June 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Caruccio:2016:SQV

[932] Loredana Caruccio, Giuseppe Polese, and Genoveffa Tortora. Synchronization of queries and views upon

schema evolutions: a survey. *ACM Transactions on Database Systems*, 41 (2):9:1–9:??, June 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Deng:2016:CMT

[933] Ting Deng, Wenfei Fan, and Floris Geerts. Capturing missing tuples and missing values. *ACM Transactions on Database Systems*, 41(2):10:1–10:??, June 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Dutt:2016:PBF

[934] Anshuman Dutt and Jayant R. Haritsa. Plan bouquets: a fragrant approach to robust query processing. *ACM Transactions on Database Systems*, 41 (2):11:1–11:??, June 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jung:2016:RWR

[935] Jinhong Jung, Kijung Shin, Lee Sael, and U. Kang. Random walk with restart on large graphs using block elimination. *ACM Transactions on Database Systems*, 41(2):12:1–12:??, June 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Arenas:2016:ECF

[936] Marcelo Arenas and Gonzalo I. Diaz. The exact complexity of the first-order logic definability problem. *ACM Transactions on Database Systems*, 41 (2):13:1–13:??, June 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cohen:2016:CLT

[937] Sara Cohen and Yaacov Y. Weiss. The complexity of learning tree patterns from example graphs. *ACM Transactions on Database Systems*, 41 (2):14:1–14:??, June 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bailis:2016:SAV

[938] Peter Bailis, Alan Fekete, Ali Ghodsi, Joseph M. Hellerstein, and Ion Stoica. Scalable atomic visibility with RAMP transactions. *ACM Transactions on Database Systems*, 41(3): 15:1–15:??, August 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

To:2016:PSE

[939] Quoc-Cuong To, Benjamin Nguyen, and Philippe Pucheral. Private and scalable execution of SQL aggregates on a secure decentralized architecture. *ACM Transactions on Database Systems*, 41(3):16:1–16:??, August 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Burdick:2016:DFL

[940] Douglas Burdick, Ronald Fagin, Phokion G. Kolaitis, Lucian Popa, and Wang-Chiew Tan. A declarative framework for linking entities. *ACM Transactions on Database Systems*, 41(3): 17:1–17:??, August 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bourhis:2016:BRR

[941] Pierre Bourhis, Gabriele Puppis, Cristian Riveros, and Slawek Staworko.

Bounded repairability for regular tree languages. *ACM Transactions on Database Systems*, 41(3):18:1–18:??, August 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bender:2016:BTC

[942] Michael A. Bender, Roozbeh Ebrahimi, Haodong Hu, and Bradley C. Kuszmaul. B-trees and cache-oblivious B-trees with different-sized atomic keys. *ACM Transactions on Database Systems*, 41(3):19:1–19:??, August 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Mazowiecki:2016:MDR

[943] Filip Mazowiecki, Filip Murlak, and Adam Witkowski. Monadic Datalog and regular tree pattern queries. *ACM Transactions on Database Systems*, 41 (3):20:1–20:??, August 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Tian:2016:BHW

[944] Yuanyuan Tian, Fatma Özcan, Tao Zou, Romulo Goncalves, and Hamid Pirahesh. Building a hybrid warehouse: Efficient joins between data stored in HDFS and enterprise warehouse. *ACM Transactions on Database Systems*, 41(4):21:1–21:??, December 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Khamis:2016:JGR

[945] Mahmoud Abo Khamis, Hung Q. Ngo, Christopher Ré, and Atri Rudra. Joins via geometric resolutions: Worst case and beyond. *ACM Transactions on Database Systems*, 41(4): 22:1–22:??, December 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Papadimitriou:2016:GBA

[946] Dimitra Papadimitriou, Georgia Koutrika, John Mylopoulos, and Yannis Velegrakis. The goal behind the action: Toward goal-aware systems and applications. *ACM Transactions on Database Systems*, 41(4):23:1–23:??, December 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fazzinga:2016:EIC

[947] Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, and Francesco Parisi. Exploiting integrity constraints for cleaning trajectories of RFID-monitored objects. *ACM Transactions on Database Systems*, 41(4):24:1–24:??, December 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Maabout:2016:SMU

[948] Sofian Maabout, Carlos Ordonez, Patrick Kamnang Wanko, and Nicolas Hanusse. Skycube materialization using the topmost skyline or functional dependencies. *ACM Transactions on Database Systems*, 41(4): 25:1–25:??, December 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Dignos:2016:EKR

[949] Anton Dignös, Michael H. Böhlen, Johann Gamper, and Christian S. Jensen. Extending the kernel of a relational DBMS with comprehensive support for sequenced temporal queries. *ACM Transactions on Database Systems*, 41(4):26:1–26:??, December 2016.

CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bourhis:2016:GBD

[950] Pierre Bourhis, Marco Manna, Michael Morak, and Andreas Pieris. Guarded-based disjunctive tuple-generating dependencies. *ACM Transactions on Database Systems*, 41(4):27:1–27:??, December 2016. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Beame:2017:EMC

[951] Paul Beame, Jerry Li, Sudeepa Roy, and Dan Suciu. Exact model counting of query expressions: Limitations of propositional methods. *ACM Transactions on Database Systems*, 42 (1):1:1–1:??, March 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jensen:2017:EUE

[952] Christian S. Jensen. Editorial: Updates to the editorial board. *ACM Transactions on Database Systems*, 42 (1):1:1–1:??, March 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Liu:2017:SMD

[953] Xiufeng Liu, Lukasz Golab, Wojciech Golab, Ihab F. Ilyas, and Shichao Jin. Smart meter data analytics: Systems, algorithms, and benchmarking. *ACM Transactions on Database Systems*, 42 (1):2:1–2:??, March 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Currim:2017:DMM

[954] Sabah Currim, Richard T. Snodgrass, Young-Kyoon Suh, and Rui Zhang. DBMS metrology: Measuring query time. *ACM Transactions on Database Systems*, 42(1):3:1–3:??, March 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Wu:2017:CFC

[955] You Wu, Pankaj K. Agarwal, Chengkai Li, Jun Yang, and Cong Yu. Computational fact checking through query perturbations. *ACM Transactions on Database Systems*, 42(1):4:1–4:??, March 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Teflioudi:2017:EAM

[956] Christina Teflioudi and Rainer Gemulla. Exact and approximate maximum inner product search with LEMP. *ACM Transactions on Database Systems*, 42 (1):5:1–5:??, March 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Shi:2017:UUA

[957] Xiaogang Shi, Bin Cui, Gillian Dobbie, and Beng Chin Ooi. UniAD: a unified ad hoc data processing system. *ACM Transactions on Database Systems*, 42(1):6:1–6:??, March 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Song:2017:RDD

[958] Shaoxu Song and Lei Chen. Response to "Differential Dependencies Revisited". *ACM Transactions on Database Systems*, 42(1):7:1–7:??, March 2017.

CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). See [790, 911].

Paparrizos:2017:FAT

[959] John Paparrizos and Luis Gravano. Fast and accurate time-series clustering. *ACM Transactions on Database Systems*, 42(2):8:1–8:??, June 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Koutris:2017:CQA

[960] Paraschos Koutris and Jef Wijsen. Consistent query answering for self-join-free conjunctive queries under primary key constraints. *ACM Transactions on Database Systems*, 42(2):9:1–9:??, June 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Yu:2017:ODM

[961] Yanwei Yu, Lei Cao, Elke A. Rundensteiner, and Qin Wang. Outlier detection over massive-scale trajectory streams. *ACM Transactions on Database Systems*, 42(2):10:1–10:??, June 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Han:2017:CCF

[962] Yunheng Han, Weiwei Sun, and Baihua Zheng. COMPRESS: a comprehensive framework of trajectory compression in road networks. *ACM Transactions on Database Systems*, 42 (2):11:1–11:??, June 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

TenCate:2017:AAS

[963] Balder Ten Cate, Phokion G. Kolaitis, Kun Qian, and Wang-Chiew Tan. Approximation algorithms for schema-mapping discovery from data examples. *ACM Transactions on Database Systems*, 42(2):12:1–12:??, June 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Maniu:2017:IFQ

[964] Silviu Maniu, Reynold Cheng, and Pierre Senellart. An indexing framework for queries on probabilistic graphs. *ACM Transactions on Database Systems*, 42(2):13:1–13:??, June 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Gan:2017:HAE

[965] Junhao Gan and Yufei Tao. On the hardness and approximation of Euclidean DBSCAN. *ACM Transactions on Database Systems*, 42(3): 14:1–14:??, August 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Martens:2017:BCS

[966] Wim Martens, Frank Neven, Matthias Niewerth, and Thomas Schwentick. BonXai: Combining the simplicity of DTD with the expressiveness of XML schema. *ACM Transactions on Database Systems*, 42(3):15:1–15:??, August 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Zheng:2017:ESB

[967] Weiguo Zheng, Lei Zou, Lei Chen, and Dongyan Zhao. Efficient SimRank-

based similarity join. *ACM Transactions on Database Systems*, 42(3): 16:1–16:??, August 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kaminski:2017:QNA

[968] Mark Kaminski, Egor V. Kostylev, and Bernardo Cuenca Grau. Query nesting, assignment, and aggregation in SPARQL 1.1. *ACM Transactions on Database Systems*, 42(3):17:1–17:??, August 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Tschirschnitz:2017:DID

[969] Fabian Tschirschnitz, Thorsten Papenbrock, and Felix Naumann. Detecting inclusion dependencies on very many tables. *ACM Transactions on Database Systems*, 42(3):18:1–18:??, August 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Schubert:2017:DRR

[970] Erich Schubert, Jörg Sander, Martin Ester, Hans Peter Kriegel, and Xiaowei Xu. DBSCAN revisited, revisited: Why and how you should (still) use DBSCAN. *ACM Transactions on Database Systems*, 42(3): 19:1–19:??, August 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Aberger:2017:ERE

[971] Christopher R. Aberger, Andrew Lamb, Susan Tu, Andres Nötzli, Kunle Olukotun, and Christopher Ré. EmptyHeaded: a relational engine for graph processing. *ACM Transactions on Database Systems*, 42(4):20:1–20:??, November 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Arenas:2017:DQL

[972] Marcelo Arenas and Martin Ugarte. Designing a query language for RDF: Marrying open and closed worlds. *ACM Transactions on Database Systems*, 42(4):21:1–21:??, November 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Barany:2017:DPP

[973] Vince Bárány, Balder Ten Cate, Benny Kimelfeld, Dan Olteanu, and Zografoula Vagena. Declarative probabilistic programming with Datalog. *ACM Transactions on Database Systems*, 42(4):22:1–22:??, November 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Alvaro:2017:BCA

[974] Peter Alvaro, Neil Conway, Joseph M. Hellerstein, and David Maier. Blazes: Coordination analysis and placement for distributed programs. *ACM Transactions on Database Systems*, 42(4): 23:1–23:??, November 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Colazzo:2017:LTM

[975] Dario Colazzo, Giorgio Ghelli, and Carlo Sartiani. Linear time membership in a class of regular expressions with counting, interleaving, and unordered concatenation. *ACM Transactions on Database Systems*, 42(4): 24:1–24:??, November 2017. CODEN

ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Zhang:2017:PPD

[976] Jun Zhang, Graham Cormode, Cecilia M. Procopiuc, Divesh Srivastava, and Xiaokui Xiao. PrivBayes: Private data release via Bayesian networks. *ACM Transactions on Database Systems*, 42(4):25:1–25:??, November 2017. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Jensen:2018:EUE

[977] Christian S. Jensen. Editorial: Updates to the Editorial Board. *ACM Transactions on Database Systems*, 43 (1):1:1–1:??, April 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Demertzis:2018:PPR

[978] Ioannis Demertzis, Stavros Papadopoulos, Odysseas Papapetrou, Antonios Deligiannakis, Minos Garofalakis, and Charalampos Papamanthou. Practical private range search in depth. *ACM Transactions on Database Systems*, 43 (1):2:1–2:??, April 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Chung:2018:EIU

[979] Yeounoh Chung, Michael Lind Mortensen, Carsten Binnig, and Tim Kraska. Estimating the impact of unknown unknowns on aggregate query results. *ACM Transactions on Database Systems*, 43(1):3:1–3:??, April 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Shaikhha:2018:BEQ

[980] Amir Shaikhha, Yannis Klonatos, and Christoph Koch. Building efficient query engines in a high-level language. *ACM Transactions on Database Systems*, 43(1):4:1–4:??, April 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Libkin:2018:TNA

[981] Leonid Libkin, Juan L. Reutter, Adrián Soto, and Domagoj Vrgoc. TriAL: a navigational algebra for RDF triplestores. *ACM Transactions on Database Systems*, 43(1):5:1–5:??, April 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Cao:2018:BQR

[982] Yang Cao, Wenfei Fan, Floris Geerts, and Ping Lu. Bounded query rewriting using views. *ACM Transactions on Database Systems*, 43(1):6:1–6:??, April 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Berkholz:2018:AFQ

[983] Christoph Berkholz, Jens Keppeler, and Nicole Schweikardt. Answering FO+MOD queries under updates on bounded degree databases. *ACM Transactions on Database Systems*, 43 (2):7:1–7:??, September 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Barcelo:2018:EES

[984] Pablo Barceló, Markus Kröll, Reinhard Pichler, and Sebastian Skritek. Efficient evaluation and static analysis for well-designed pattern trees

with projection. *ACM Transactions on Database Systems*, 43(2):8:1–8:??, September 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Lazerson:2018:LMD

[985] Arnon Lazerson, Daniel Keren, and Assaf Schuster. Lightweight monitoring of distributed streams. *ACM Transactions on Database Systems*, 43(2): 9:1–9:??, September 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Qi:2018:RQU

[986] Jianzhong Qi, Fei Zuo, Hanan Samet, and Jia Cheng Yao. K-regret queries using multiplicative utility functions. *ACM Transactions on Database Systems*, 43(2):10:1–10:??, September 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kimelfeld:2018:RFC

[987] Benny Kimelfeld and Christopher Ré. A relational framework for classifier engineering. *ACM Transactions on Database Systems*, 43(3):11:1–11:??, November 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Schwentick:2018:DCU

[988] Thomas Schwentick, Nils Vortmeier, and Thomas Zeume. Dynamic complexity under definable changes. *ACM Transactions on Database Systems*, 43 (3):12:1–12:??, November 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Arenas:2018:ELQ

[989] Marcelo Arenas, Georg Gottlob, and Andreas Pieris. Expressive languages for querying the Semantic Web. *ACM Transactions on Database Systems*, 43 (3):13:1–13:??, November 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Polychroniou:2018:DJD

[990] Orestis Polychroniou, Wangda Zhang, and Kenneth A. Ross. Distributed joins and data placement for minimal network traffic. *ACM Transactions on Database Systems*, 43(3): 14:1–14:??, November 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Abuzaid:2018:MPA

[991] Firas Abuzaid, Peter Bailis, Jialin Ding, Edward Gan, Samuel Madden, Deepak Narayanan, Kexin Rong, and Sahaana Suri. MacroBase: Prioritizing attention in fast data. *ACM Transactions on Database Systems*, 43(4): 15:1–15:??, December 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Dayan:2018:OBF

[992] Niv Dayan, Manos Athanassoulis, and Stratos Idreos. Optimal Bloom filters and adaptive merging for LSM-trees. *ACM Transactions on Database Systems*, 43(4):16:1–16:??, December 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Meneghetti:2018:LQA

[993] Niccolò Meneghetti, Oliver Kennedy, and Wolfgang Gatterbauer. Learning from query-answers: a scalable

approach to belief updating and parameter learning. *ACM Transactions on Database Systems*, 43(4):17:1–17:??, December 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fan:2018:PSG

[994] Wenfei Fan, Wenyuan Yu, Jingbo Xu, Jingren Zhou, Xiaojian Luo, Qiang Yin, Ping Lu, Yang Cao, and Ruiqi Xu. Parallelizing sequential graph computations. *ACM Transactions on Database Systems*, 43(4):18:1–18:??, December 2018. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Kipf:2019:SAF

[995] Andreas Kipf, Varun Pandey, Jan Böttcher, Lucas Braun, Thomas Neumann, and Alfons Kemper. Scalable analytics on fast data. *ACM Transactions on Database Systems*, 44 (1):1:1–1:??, January 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Li:2019:WJX

[996] Feifei Li, Bin Wu, Ke Yi, and Zhuoyue Zhao. Wander join and XDB: Online aggregation via random walks. *ACM Transactions on Database Systems*, 44 (1):2:1–2:??, January 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Bai:2019:HMD

[997] Ran Bai, Wing Kai Hon, Eric Lo, Zhian He, and Kenny Zhu. Historic moments discovery in sequence data. *ACM Transactions on Database Systems*, 44 (1):3:1–3:??, January 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Alexandrov:2019:ROE

[998] Alexander Alexandrov, Georgi Krastev, and Volker Markl. Representations and optimizations for embedded parallel dataflow languages. *ACM Transactions on Database Systems*, 44(1):4:1–4:??, January 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Fan:2019:DG

[999] Wenfei Fan and Ping Lu. Dependencies for graphs. *ACM Transactions on Database Systems*, 44(2):5:1–5:??, April 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3287285`.

Hu:2019:OOM

[1000] Xiao Hu, Ke Yi, and Yufei Tao. Output-optimal massively parallel algorithms for similarity joins. *ACM Transactions on Database Systems*, 44 (2):6:1–6:??, April 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3311967`.

Dautrich:2019:IIT

[1001] Jonathan L. Dautrich, Jr. and Chinya V. Ravishankar. Inferring insertion times and optimizing error penalties in time-decaying Bloom filters. *ACM Transactions on Database Systems*, 44(2):7:1–7:??, April 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3284552`.

Gummidi:2019:SSC

[1002] Srinivasa Raghavendra Bhuvan Gummidi, Xike Xie, and Torben Bach Pedersen. A survey of spatial crowdsourcing. *ACM Transactions on Database Systems*, 44(2):8:1–8:??, April 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3291933`.

Damme:2019:CES

[1003] Patrick Damme, Annett Ungethüm, Juliana Hildebrandt, Dirk Habich, and Wolfgang Lehner. From a comprehensive experimental survey to a cost-based selection strategy for lightweight integer compression algorithms. *ACM Transactions on Database Systems*, 44(3):9:1–9:??, June 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3323991`.

Bonifati:2019:IMS

[1004] Angela Bonifati, Ugo Comignani, Emmanuel Coquery, and Romuald Thion. Interactive mapping specification with exemplar tuples. *ACM Transactions on Database Systems*, 44(3):10:1–10:??, June 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3321485`.

Beedkar:2019:UFF

[1005] Kaustubh Beedkar, Rainer Gemulla, and Wim Martens. A unified framework for frequent sequence mining with subsequence constraints. *ACM Transactions on Database Systems*, 44 (3):11:1–11:??, June 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3321486`.

Deutsch:2019:VHA

[1006] Alin Deutsch, Yuliang Li, and Victor Vianu. Verification of hierarchical artifact systems. *ACM Transactions on Database Systems*, 44(3):12:1–12:??, June 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3321487`.

Seidemann:2019:CHP

[1007] Marc Seidemann, Nikolaus Glombiewski, Michael Körber, and Bernhard Seeger. ChronicleDB: a high-performance event store. *ACM Transactions on Database Systems*, 44(4): 13:1–13:??, October 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3342357`.

Brijder:2019:EPQ

[1008] Robert Brijder, Floris Geerts, Jan Van Den Bussche, and Timmy Weerwag. On the expressive power of query languages for matrices. *ACM Transactions on Database Systems*, 44(4):15:1–15:??, October 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3331445`.

Martens:2019:DES

[1009] Wim Martens and Tina Trautner. Dichotomies for evaluating simple regular path queries. *ACM Transactions* on Database Systems, 44(4):16:1–16:??, October 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/ft_gateway.cfm?id=3331446.

Wang:2019:EAA

[1010] Sibo Wang, Renchi Yang, Runhui Wang, Xiaokui Xiao, Zhewei Wei, Wenqing Lin, Yin Yang, and Nan Tang. Efficient algorithms for approximate single-source personalized PageRank queries. *ACM Transactions on Database Systems*, 44(4):18:1–18:??, October 2019. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/ft_gateway.cfm?id=3360902.

Jensen:2020:EUE

[1011] Christian S. Jensen. Editorial: Updates to the Editorial Board. *ACM Transactions on Database Systems*, 45(1):1e:1, March 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/abs/10.1145/3381020.

McCamish:2020:GTA

[1012] Ben McCamish, Vahid Ghadakchi, Arash Termehchy, Behrouz Touri, Eduardo Cotilla-Sanchez, Liang Huang, and Soravit Changpinyo. A game-theoretic approach to data interaction. *ACM Transactions on Database Systems*, 45(1):1:1–1:44, March 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/abs/10.1145/3351450.

Zhang:2020:FDD

[1013] Dan Zhang, Ryan McKenna, Ios Kotsogiannis, George Bissias, Michael Hay, Ashwin Machanavajjhala, and Gerome Miklau. ϵKTELO: a framework for defining differentially private computations. *ACM Transactions on Database Systems*, 45(1):2:1–2:44, March 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/abs/10.1145/3362032.

Florenzano:2020:EEA

[1014] Fernando Florenzano, Cristian Riveros, Martín Ugarte, Stijn Vansummeren, and Domagoj Vrgoc. Efficient enumeration algorithms for regular document spanners. *ACM Transactions on Database Systems*, 45(1):3:1–3:42, March 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/abs/10.1145/3351451.

Livshits:2020:COR

[1015] Ester Livshits, Benny Kimelfeld, and Sudeepa Roy. Computing optimal repairs for functional dependencies. *ACM Transactions on Database Systems*, 45(1):4:1–4:46, March 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/abs/10.1145/3360904.

Zhang:2020:SRF

[1016] Huanchen Zhang, Hyeontaek Lim, Viktor Leis, David G. Andersen, Michael Kaminsky, Kimberly Keeton, and Andrew Pavlo. Succinct range filters. *ACM Transactions on Database Systems*, 45(2):5:1–5:31, July 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/abs/10.1145/3375660.

Fan:2020:AAP

[1017] Wenfei Fan, Ping Lu, Wenyuan Yu, Jingbo Xu, Qiang Yin, Xiaojian Luo, Jingren Zhou, and Ruochun Jin. Adaptive asynchronous parallelization of graph algorithms. *ACM Transactions on Database Systems*, 45(2):6:1–6:45, July 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3397491`.

Khamis:2020:LMR

[1018] Mahmoud Abo Khamis, Hung Q. Ngo, Xuanlong Nguyen, Dan Olteanu, and Maximilian Schleich. Learning models over relational data using sparse tensors and functional dependencies. *ACM Transactions on Database Systems*, 45(2):7:1–7:66, July 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3375661`.

Kolaitis:2020:LNT

[1019] Phokion G. Kolaitis, Reinhard Pichler, Emanuel Sallinger, and Vadim Savenkov. On the language of nested tuple generating dependencies. *ACM Transactions on Database Systems*, 45(2):8:1–8:59, July 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3369554`.

Fan:2020:CNI

[1020] Wenfei Fan, Xueli Liu, Ping Lu, and Chao Tian. Catching numeric inconsistencies in graphs. *ACM Transactions on Database Systems*, 45(2):9:1–9:47, July 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3385031`.

Jermaine:2020:E

[1021] Chris Jermaine. Editorial. *ACM Transactions on Database Systems*, 45 (3):10:1, September 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3417730`.

Kara:2020:MTQ

[1022] Ahmet Kara, Hung Q. Ngo, Milos Nikolic, Dan Olteanu, and Haozhe Zhang. Maintaining triangle queries under updates. *ACM Transactions on Database Systems*, 45(3):11:1–11:46, September 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3396375`.

Shaikhha:2020:SIL

[1023] Amir Shaikhha, Mohammed Elseidy, Stephan Mihaila, Daniel Espino, and Christoph Koch. Synthesis of incremental linear algebra programs. *ACM Transactions on Database Systems*, 45 (3):12:1–12:44, September 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3385398`.

Schirmer:2020:EDM

[1024] Philipp Schirmer, Thorsten Papenbrock, Ioannis Koumarelas, and Felix Naumann. Efficient discovery of matching dependencies. *ACM Transactions on Database Systems*, 45(3): 13:1–13:33, September 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3392778.

Qi:2020:PTS

[1025] Jianzhong Qi, Yufei Tao, Yanchuan Chang, and Rui Zhang. Packing R-trees with space-filling curves: Theoretical optimality, empirical efficiency, and bulk-loading parallelizability. *ACM Transactions on Database Systems*, 45(3):14:1–14:47, September 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3397506.

Fan:2020:DGF

[1026] Wenfei Fan, Chunming Hu, Xueli Liu, and Ping Lu. Discovering graph functional dependencies. *ACM Transactions on Database Systems*, 45(3): 15:1–15:42, September 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3397198.

Nakandala:2020:IAC

[1027] Supun Nakandala, Kabir Nagrecha, Arun Kumar, and Yannis Papakonstantinou. Incremental and approximate computations for accelerating deep CNN inference. *ACM Transactions on Database Systems*, 45(4): 16:1–16:42, December 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3397461.

Khamis:2020:FAQ

[1028] Mahmoud Abo Khamis, Ryan R. Curtin, Benjamin Moseley, Hung Q. Ngo, Xuanlong Nguyen, Dan Olteanu, and Maximilian Schleich. Functional aggregate queries with additive inequalities. *ACM Transactions on Database Systems*, 45(4):17:1–17:41, December 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3426865.

Ciaccia:2020:FSD

[1029] Paolo Ciaccia and Davide Martinenghi. Flexible skylines: Dominance for arbitrary sets of monotone functions. *ACM Transactions on Database Systems*, 45(4):18:1–18:45, December 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3406113.

Zimanyi:2020:MMD

[1030] Esteban Zimányi, Mahmoud Sakr, and Arthur Lesuisse. MobilityDB: a mobility database based on PostgreSQL and PostGIS. *ACM Transactions on Database Systems*, 45(4):19:1–19:42, December 2020. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3406534.

Traub:2021:SGE

[1031] Jonas Traub, Philipp Marian Grulich, Alejandro Rodríguez Cuéllar, Sebastian Breß, Asterios Katsifodimos, Tilmann Rabl, and Volker Markl. Scotty: General and efficient open-source window aggregation for stream processing systems. *ACM Transactions on Database Systems*, 46(1):1:1–1:46, April 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3433675.

Amarilli:2021:CDE

[1032] Antoine Amarilli, Pierre Bourhis, Stefan Mengel, and Matthias Niewerth. Constant-delay enumeration for nondeterministic document spanners. *ACM Transactions on Database Systems*, 46 (1):2:1–2:30, April 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3436487`.

Mitchell:2021:ESM

[1033] Rory Mitchell, Eibe Frank, and Geoffrey Holmes. An empirical study of moment estimators for quantile approximation. *ACM Transactions on Database Systems*, 46(1):3:1–3:21, April 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3442337`.

Meduri:2021:EML

[1034] Venkata Vamsikrishna Meduri, Kanchan Chowdhury, and Mohamed Sarwat. Evaluation of machine learning algorithms in predicting the next SQL query from the future. *ACM Transactions on Database Systems*, 46 (1):4:1–4:46, April 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3442338`.

Carmeli:2021:ECU

[1035] Nofar Carmeli and Markus Kröll. On the enumeration complexity of unions of conjunctive queries. *ACM Transactions on Database Systems*, 46(2):5:1–5:41, June 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3450263`.

Mhedhbi:2021:OOT

[1036] Amine Mhedhbi, Chathura Kankanamge, and Semih Salihoglu. Optimizing one-time and continuous subgraph queries using worst-case optimal joins. *ACM Transactions on Database Systems*, 46 (2):6:1–6:45, June 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3446980`.

Wei:2021:EFD

[1037] Ziheng Wei and Sebastian Link. Embedded functional dependencies and data-completeness tailored database design. *ACM Transactions on Database Systems*, 46(2):7:1–7:46, June 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3450518`.

Chen:2021:GIE

[1038] Yangjun Chen and Gagandeep Singh. Graph indexing for efficient evaluation of label-constrained reachability queries. *ACM Transactions on Database Systems*, 46(2):8:1–8:50, June 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3451159`.

Trummer:2021:SRB

[1039] Immanuel Trummer, Junxiong Wang, Ziyun Wei, Deepak Maram, Samuel Moseley, Saehan Jo, Joseph Antonakakis, and Ankush Rayabhari. SkinnerDB: Regret-bounded query evaluation via reinforcement learning. *ACM Transactions on Database Systems*, 46 (3):9:1–9:45, September 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3464389.

Song:2021:SDC

[1040] Shaoxu Song, Fei Gao, Aoqian Zhang, Jianmin Wang, and Philip S. Yu. Stream data cleaning under speed and acceleration constraints. *ACM Transactions on Database Systems*, 46(3): 10:1–10:44, September 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3465740.

Lin:2021:EBL

[1041] Xuelian Lin, Shuai Ma, Jiahao Jiang, Yanchen Hou, and Tianyu Wo. Error bounded line simplification algorithms for trajectory compression: an experimental evaluation. *ACM Transactions on Database Systems*, 46(3): 11:1–11:44, September 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3474373.

Khamis:2021:BQC

[1042] Mahmoud Abo Khamis, Phokion G. Kolaitis, Hung Q. Ngo, and Dan Suciu. Bag query containment and information theory. *ACM Transactions on Database Systems*, 46(3):12:1–12:39, September 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3472391.

Ma:2021:DDS

[1043] Chenhao Ma, Yixiang Fang, Reynold Cheng, Laks V. S. Lakshmanan, Wenjie Zhang, and Xuemin Lin. On directed densest subgraph discovery. *ACM Transactions on Database Systems*, 46 (4):13:1–13:45, December 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3483940.

Singh:2021:TRH

[1044] Shikha Singh, Prashant Pandey, Michael A. Bender, Jonathan W. Berry, Martín Farach-Colton, Rob Johnson, Thomas M. Kroeger, and Cynthia A. Phillips. Timely reporting of heavy hitters using external memory. *ACM Transactions on Database Systems*, 46(4):14:1–14:35, December 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3472392.

Benedikt:2021:BEI

[1045] Michael Benedikt, Pierre Bourhis, Louis Jachiet, and Efthymia Tsamoura. Balancing expressiveness and inexpressiveness in view design. *ACM Transactions on Database Systems*, 46(4): 15:1–15:40, December 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3488370.

Grez:2021:FFC

[1046] Alejandro Grez, Cristian Riveros, Martín Ugarte, and Stijn Vansummeren. A formal framework for complex event recognition. *ACM Transactions on Database Systems*, 46(4): 16:1–16:49, December 2021. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3485463.

Berger:2022:SEC

[1047] Gerald Berger, Georg Gottlob, Andreas Pieris, and Emanuel Sallinger. The space-efficient core of Vadalog. *ACM Transactions on Database Systems*, 47 (1):1:1–1:46, March 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3488720`.

Tong:2022:URP

[1048] Yongxin Tong, Yuxiang Zeng, Zimu Zhou, Lei Chen, and Ke Xu. Unified route planning for shared mobility: an insertion-based framework. *ACM Transactions on Database Systems*, 47 (1):2:1–2:48, March 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3488723`.

Binna:2022:HOT

[1049] Robert Binna, Eva Zangerle, Martin Pichl, Günther Specht, and Viktor Leis. Height optimized tries. *ACM Transactions on Database Systems*, 47 (1):3:1–3:46, March 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3506692`.

Aumuller:2022:SNN

[1050] Martin Aumüller, Sariel Har-Peled, Sepideh Mahabadi, Rasmus Pagh, and Francesco Silvestri. Sampling a near neighbor in high dimensions — who is the fairest of them all? *ACM Transactions on Database Systems*, 47 (1):4:1–4:40, March 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3502867`.

Schmid:2022:CRP

[1051] Markus L. Schmid. Conjunctive regular path queries with capture groups. *ACM Transactions on Database Systems*, 47 (2):5:1–5:52, June 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3514230`.

Fan:2022:IGC

[1052] Wenfei Fan and Chao Tian. Incremental graph computations: Doable and undoable. *ACM Transactions on Database Systems*, 47(2):6:1–6:44, June 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3500930`.

Cheng:2022:MOP

[1053] Ji Cheng, Da Yan, Wenwen Qu, Xiaotian Hao, Cheng Long, Wilfred Ng, and Xiaoling Wang. Mining order-preserving submatrices under data uncertainty: a possible-world approach and efficient approximation methods. *ACM Transactions on Database Systems*, 47(2):7:1–7:57, June 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3524915`.

Arroyuelo:2022:OJU

[1054] Diego Arroyuelo, Gonzalo Navarro, Juan L. Reutter, and Javiel Rojas-Ledesma. Optimal joins using compressed quadtrees. *ACM Transactions on Database Systems*, 47(2):8:1–8:53, June 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3514231`.

Carmeli:2022:AUC

[1055] Nofar Carmeli, Shai Zeevi, Christoph Berkholz, Alessio Conte, Benny Kimelfeld, and Nicole Schweikardt. Answering (unions of) conjunctive queries using random access and random-order enumeration. *ACM Transactions on Database Systems*, 47(3):9:1–9:49, September 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3531055`.

Asudeh:2022:FRR

[1056] Abolfazl Asudeh, Gautam Das, H. V. Jagadish, Shangqi Lu, Azade Nazi, Yufei Tao, Nan Zhang, and Jianwen Zhao. On finding rank regret representatives. *ACM Transactions on Database Systems*, 47(3): 10:1–10:37, September 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3531054`.

Zeng:2022:PS

[1057] Tianjing Zeng, Zhewei Wei, Ge Luo, Ke Yi, Xiaoyong Du, and Ji-Rong Wen. Persistent summaries. *ACM Transactions on Database Systems*, 47(3): 11:1–11:42, September 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3531053`.

Guo:2022:IMR

[1058] Qintian Guo, Sibo Wang, Zhewei Wei, Wenqing Lin, and Jing Tang. Influence maximization revisited: Efficient sampling with bound tightened. *ACM Transactions on Database Systems*, 47(3):12:1–12:45, September 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3533817`.

Ketsman:2022:DRL

[1059] Bas Ketsman, Christoph Koch, Frank Neven, and Brecht Vandevoort. Deciding robustness for lower SQL isolation levels. *ACM Transactions on Database Systems*, 47(4):13:1–13:??, December 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3561049`.

TenCate:2022:CQU

[1060] Balder Ten Cate and Victor Dalmau. Conjunctive queries: Unique characterizations and exact learnability. *ACM Transactions on Database Systems*, 47(4):14:1–14:??, December 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3559756`.

Wei:2022:PQT

[1061] Victor Junqiu Wei, Raymond Chi-Wing Wong, Cheng Long, David Mount, and Hanan Samet. Proximity queries on terrain surface. *ACM Transactions on Database Systems*, 47(4): 15:1–15:??, December 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3563773`.

Do:2022:ESD

[1062] Thanh Do, Goetz Graefe, and Jeffrey Naughton. Efficient sorting, duplicate removal, grouping, and aggregation. *ACM Transactions on Database*

Systems, 47(4):16:1–16:??, December 2022. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3568027`.

Carmeli:2023:TOD

[1063] Nofar Carmeli, Nikolaos Tziavelis, Wolfgang Gatterbauer, Benny Kimelfeld, and Mirek Riedewald. Tractable orders for direct access to ranked answers of conjunctive queries. *ACM Transactions on Database Systems*, 48 (1):1:1–1:??, March 2023. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3578517`.

Do:2023:RES

[1064] Thanh Do and Goetz Graefe. Robust and efficient sorting with offset-value coding. *ACM Transactions on Database Systems*, 48(1):2:1–2:??, March 2023. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3570956`.

Huang:2023:ECS

[1065] Ruihong Huang, Jianmin Wang, Shaoxu Song, Xuemin Lin, Xiaochen Zhu, and Jian Pei. Efficiently cleaning structured event logs: a graph repair approach. *ACM Transactions on Database Systems*, 48(1):3:1–3:??, March 2023. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3571281`.

Fakas:2023:PSD

[1066] Georgios J. Fakas and Georgios Kalamatianos. Proportionality on spatial data with context. *ACM Transactions on Database Systems*, 48(2):4:1–4:??, June 2023. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3588434`.

Hu:2023:RDW

[1067] Donghui Hu, Qing Wang, Song Yan, Xiaojun Liu, Meng Li, and Shuli Zheng. Reversible database watermarking based on order-preserving encryption for data sharing. *ACM Transactions on Database Systems*, 48 (2):5:1–5:??, June 2023. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3589761`.

Chen:2023:EBO

[1068] Yaxing Chen, Qinghua Zheng, and Zheng Yan. Efficient bi-objective SQL optimization for enclaved cloud databases with differentially private padding. *ACM Transactions on Database Systems*, 48(2):6:1–6:??, June 2023. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3597021`.

Pavan:2023:MCM

[1069] A. Pavan, N. V. Vinodchandran, Arnab Bhattacharyya, and Kuldeep S. Meel. Model counting meets F_0 estimation. *ACM Transactions on Database Systems*, 48(3):7:1–7:??, September 2023. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL `https://dl.acm.org/doi/10.1145/3603496`.

Sarkar:2023:ETP

[1070] Subhadeep Sarkar, Tarikul Islam Papon, Dimitris Staratzis, Zichen Zhu, and Manos Athanassoulis. Enabling timely and persistent deletion in LSM-engines. *ACM Transactions on Database Systems*, 48(3):8:1–8:??, September 2023. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3599724.

Leventidis:2023:DHD

[1071] Aristotelis Leventidis, Laura Di Rocco, Wolfgang Gatterbauer, Renée J. Miller, and Mirek Riedewald. DomainNet: Homograph detection and understanding in data lake disambiguation. *ACM Transactions on Database Systems*, 48 (3):9:1–9:??, September 2023. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3612919.

Shangqi:2023:POM

[1072] Lu Shangqi, Wim Martens, Matthias Niewerth, and Yufei Tao. Partial order multiway search. *ACM Transactions on Database Systems*, 48(4): 10:1–10:??, December 2023. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3626956.

Herodotou:2023:CBD

[1073] Herodotos Herodotou and Elena Kakoulli. Cost-based data prefetching and scheduling in big data platforms over tiered storage systems. *ACM Transactions on Database Systems*, 48(4): 11:1–11:??, December 2023. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3625389.

Gottlob:2024:FPH

[1074] Georg Gottlob, Matthias Lanzinger, Cem Okulmus, and Reinhard Pichler. Fast parallel hypertree decompositions in logarithmic recursion depth. *ACM Transactions on Database Systems*, 49 (1):1:1–1:??, March 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3638758.

Fan:2024:LEA

[1075] Wenfei Fan, Ping Lu, Kehan Pang, Ruochun Jin, and Wenyuan Yu. Linking entities across relations and graphs. *ACM Transactions on Database Systems*, 49(1):2:1–2:??, March 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3639363.

Wang:2024:AHT

[1076] Zhaoguo Wang, Chuzhe Tang, Xiaodong Zhang, Qianmian Yu, Binyu Zang, Haibing Guan, and Haibo Chen. Ad hoc transactions through the looking glass: an empirical study of application-level transactions in Web applications. *ACM Transactions on Database Systems*, 49(1):3:1–3:??, March 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3638553.

Currim:2024:IRC

[1077] Sabah Currim, Richard T. Snodgrass, and Young-Kyoon Suh. Identifying the root causes of DBMS suboptimality. *ACM Transactions on Database Systems*, 49(1):4:1–4:??, March 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3636425.

Arroyuelo:2024:RWC

[1078] Diego Arroyuelo, Adrián Gómez-Brandón, Aidan Hogan, Gonzalo Navarro, Juan Reutter, Javiel Rojas-Ledesma, and Adrián Soto. The ring: Worst-case optimal joins in graph databases using (almost) no extra space. *ACM Transactions on Database Systems*, 49(2):5:1–5:??, June 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3644824.

Chapman:2024:SBI

[1079] Adriane Chapman, Luca Lauro, Paolo Missier, and Riccardo Torlone. Supporting better insights of data science pipelines with fine-grained provenance. *ACM Transactions on Database Systems*, 49(2):6:1–6:??, June 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3644385.

Zhang:2024:SQN

[1080] Chao Zhang and Toumani Farouk. Sharing queries with nonequivalent user-defined aggregate functions. *ACM Transactions on Database Systems*, 49 (2):7:1–7:??, June 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3649133.

Carmeli:2024:DRS

[1081] Nofar Carmeli, Martin Grohe, Benny Kimelfeld, Ester Livshits, and Muhammad Tibi. Database repairing with soft functional dependencies. *ACM Transactions on Database Systems*, 49 (2):8:1–8:??, June 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3651156.

Tench:2024:GHF

[1082] David Tench, Evan West, Victor Zhang, Michael A. Bender, Abiyaz Chowdhury, Daniel Delayo, J. Ahmed Dellas, Martín Farach-Colton, Tyler Seip, and Kenny Zhang. GraphZeppelin: How to find connected components (even when graphs are dense, dynamic, and massive). *ACM Transactions on Database Systems*, 49(3): 9:1–9:??, September 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3643846.

Salas:2024:FCM

[1083] Jorge Salas, Cristian Riveros, and Sebastián Bugedo. A family of centrality measures for graph data based on subgraphs. *ACM Transactions on Database Systems*, 49(3):10:1–10:??, September 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3649134.

Gershtein:2024:ACT

[1084] Shay Gershtein, Uri Avron, Ido Guy, Tova Milo, and Slava Novgorodov. Automated category tree construction: Hardness bounds and algorithms. *ACM*

Transactions on Database Systems, 49 (3):11:1–11:??, September 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3664283.

Hu:2024:ASB

[1085] Pan Hu and Boris Motik. Accurate sampling-based cardinality estimation for complex graph queries. *ACM Transactions on Database Systems*, 49 (3):12:1–12:??, September 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3689209.

Dong:2024:IOT

[1086] Wei Dong, Juanru Fang, Ke Yi, Yuchao Tao, and Ashwin Machanavajjhala. Instance-optimal truncation for differentially private query evaluation with foreign keys. *ACM Transactions on Database Systems*, 49(4): 13:1–13:??, December 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3697831.

Benedikt:2024:RIC

[1087] Michael Benedikt, Maxime Buron, Stefano Germano, Kevin Kappelmann, and Boris Motik. Rewriting the infinite chase for guarded TGDs. *ACM Transactions on Database Systems*, 49(4): 14:1–14:??, December 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3696416.

Munoz:2024:SEN

[1088] Martín Muñoz and Cristian Riveros. Streaming enumeration on nested documents. *ACM Transactions on Database Systems*, 49(4):15:1–15:??, December 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3701557.

Fan:2024:MIT

[1089] Wenfei Fan, Kehan Pang, Ping Lu, and Chao Tian. Making it tractable to detect and correct errors in graphs. *ACM Transactions on Database Systems*, 49(4):16:1–16:??, December 2024. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3702315.

Bringmann:2025:TFG

[1090] Karl Bringmann, Nofar Carmeli, and Stefan Mengel. Tight fine-grained bounds for direct access on join queries. *ACM Transactions on Database Systems*, 50(1):1:1–1:??, March 2025. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3707448.

Mouratidis:2025:MTS

[1091] Kyriakos Mouratidis, Keming Li, and Bo Tang. Marrying top-k with skyline queries: Operators with relaxed preference input and controllable output size. *ACM Transactions on Database Systems*, 50(1):2:1–2:??, March 2025. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3705726.

Li:2025:CBF

[1092] Yiming Li, Yanyan Shen, Lei Chen, and Mingxuan Yuan. A caching-based framework for scalable temporal graph neural network training. *ACM Transactions on Database Systems*, 50 (1):3:1–3:??, March 2025. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3705894.

Jasny:2025:SDD

[1093] Matthias Jasny, Tobias Ziegler, Jacob Nelson-Slivon, Viktor Leis, and Carsten Binnig. Synchronizing disaggregated data structures with one-sided RDMA: Pitfalls, experiments and design guidelines. *ACM Transactions on Database Systems*, 50(1):4:1–4:??, March 2025. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic). URL https://dl.acm.org/doi/10.1145/3716377.

Metwally:2025:SLB

[1094] Ahmed Metwally. Scaling and load-balancing equi-joins. *ACM Transactions on Database Systems*, 50(2):5:1–5:??, June 2025. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Sun:2025:PTD

[1095] Zitan Sun, Xin Huang, Jianliang Xu, Francesco Bonchi, and Lijun Chang. Probabilistic truss decomposition on uncertain graphs: Indexing and dynamic maintenance. *ACM Transactions on Database Systems*, 50(2):6:1–6:??, June 2025. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Wang:2025:AIT

[1096] Chen Wang, Jialin Qiao, Xiangdong Huang, Shaoxu Song, Haonan Hou, Tian Jiang, Lei Rui, Jianmin Wang, and Jiaguang Sun. Apache IoTDB: a time series database for large scale IoT applications. *ACM Transactions on Database Systems*, 50(2):7:1–7:??, June 2025. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Vandevoort:2025:AIL

[1097] Brecht Vandevoort, Bas Ketsman, and Frank Neven. Allocating isolation levels to transactions in a multiversion setting. *ACM Transactions on Database Systems*, 50(2):8:1–8:??, June 2025. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Lebeda:2025:BDP

[1098] Christian Janos Lebeda and Jakub Tetek. Better differentially private approximate histograms and heavy hitters using the Misra–Gries sketch. *ACM Transactions on Database Systems*, 50(3):9:1–9:??, September 2025. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Chai:2025:CEM

[1099] Chengliang Chai, Kaisen Jin, Nan Tang, Ju Fan, Dongjing Miao, Jiayi Wang, Yuyu Luo, Guoliang Li, Ye Yuan, and Guoren Wang. Cost-effective missing value imputation for data-effective machine learning. *ACM Transactions on Database Systems*, 50 (3):10:1–10:??, September 2025. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

John:2025:HDD

[1100] Sachin Basil John, Christoph Koch, and Peter Lindner. High-dimensional data cubes. *ACM Transactions on*

Database Systems, 50(3):11:1–11:??, September 2025. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Aamer:2025:EWS

[1101] Heba Aamer, Jan Hidders, Jan Paredaens, and Jan Van den Bussche. Expressiveness within sequence Datalog. *ACM Transactions on Database Systems*, 50(3):12:1–12:??, September 2025. CODEN ATDSD3. ISSN 0362-5915 (print), 1557-4644 (electronic).

Litwin:1980:LHN

[1102] W. Litwin. Linear hashing: a new tool for file and table addressing. In Lochovsky and Taylor [1105], pages 212–223. Reprinted in [1109, p. 570–581].

Regnier:1985:AGF

[1103] Mireille Regnier. Analysis of grid file algorithms. *BIT*, 25(2):335–357, June 1985. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL http://www.springerlink.com/openurl.asp?genre=article&issn=0006-3835&volume=25&issue=2&spage=335.

Kerr:1975:PIC

[1104] Douglas S. Kerr, editor. *Proceedings of the International Conference on Very Large Data Bases, Framingham, MA, USA, September 22–24, 1975*. ACM Press, New York, NY 10036, USA, 1975. ISSN 0278-2596. LCCN QA76.9.D3 I55 1975. US$15.00. ACM SIGMOD v. 1, no. 1, September 1975.

Lochovsky:1980:SIC

[1105] Frederick H. Lochovsky and ?. Taylor, editors. *Sixth International Conference on Very Large Data Bases: reprinted from Very large data bases*. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1980. IEEE Catalog Number 80CH1534-7C. ACM Order Number 471800. Long Beach Order Number 322.

Schkolnick:1983:ICV

[1106] Mario Schkolnick and C. (Costantino) Thanos, editors. *9th International Conference on Very Large Data Bases (Florence, Italy, October 31–November 2, 1983)*. VLDB Endowment, P.O. Box 2245, Saratoga, CA, USA, 1983. ISBN 0-934613-15-X. LCCN QA 76.9 D3 I61 1983. This conference is sponsored by VLDB Endowment and co-sponsored by IFIP et al.

ACM:1985:PFA

[1107] ACM, editor. *Proceedings of the Fourth ACM SIGACT-SIGMOD Symposium on Principles of Database Systems, March 25–27, 1985, Portland, Oregon*. ACM Press, New York, NY 10036, USA, 1985. ISBN 0-89791-153-9. LCCN QA 76.9 D3 A296 1985.

Kambayashi:1986:TIC

[1108] Yahiko Kambayashi, Wesley Chu, Georges Gardarin, and Setsuo Ohsuga, editors. *Twelfth International Conference on Very Large Data Bases, Proceedings (VLDB '86)*. Morgan Kaufmann Publishers, Los Altos, CA 94022, USA, 1986. ISBN 0-934613-18-4. xiii + 512 pp. LCCN QA 76.9 D3 I61 1986.

Stonebraker:1988:RDS

[1109] Michael Stonebraker, editor. *Readings in Database Systems*. Morgan Kaufmann Publishers, Los Altos, CA 94022, USA, 1988. ISBN 0-934613-65-6. xii + 644 pp. LCCN QA76.9.D3 R4 1988. US$29.95. Contains reprint of [1102].

Garcia-Molina:1990:PAS

[1110] Héctor García-Molina and H. V. Jagadish, editors. *Proceedings of the 1990 ACM SIGMOD International Conference on Management of Data, May 23–25, 1990, Atlantic City, NJ*, volume 19(2) of *SIGMOD Record*. ACM Press, New York, NY 10036, USA, June 1990. ISBN 0-89791-365-5. LCCN QA 76.9 D3 S53 v.19 no.2 1990.

Zdonik:1990:ROO

[1111] B. Zdonik and David Maier, editors. *Readings in Object-Oriented Database Systems*. Morgan Kaufmann series in data management systems. Morgan Kaufmann Publishers, Los Altos, CA 94022, USA, 1990. ISBN 1-55860-000-0. x + 629 pp. LCCN QA76.9.D3 R42 1990. US$29.95.