A Complete Bibliography of *ACM Transactions on Spatial Algorithms and Systems (TSAS)*

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: `beebe@math.utah.edu`, `beebe@acm.org`, `beebe@computer.org` (Internet)
WWW URL: `http://www.math.utah.edu/~beebe/`

30 April 2024
Version 1.07

Title word cross-reference

References

Apon:2022:SSG

[AAGS22] Sajid Hasan Apon, Mohammed Eunus Ali, Bishwamittra Ghosh, and Timos Sellis. Social-spatial group queries with keywords. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8 (1):1:1–1:??, March 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3475962`.

Agarwal:2016:TNN

[ABM16] Pankaj K. Agarwal, Alex Beutel, and Thomas Mølhave. TerraNNI: Natural neighbor interpolation on 2D and 3D grids using a GPU. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2(2):7:1–7:31, July 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=2786757`.

Aly:2017:AEE

[ABY17] Heba Aly, Anas Basalamah, and Moustafa Youssef. Accurate and energy-efficient GPS-less outdoor localization. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 3(2):4:1–4:??, August 2017. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3085575`.

Anastasiou:2022:ARC

[ACC+22] Chrysovalantis Anastasiou, Constantinos Costa, Panos K. Chrysanthis, Cyrus Shahabi, and Demetrios Zeinalipour-Yazti. ASTRO: Reducing COVID-19 exposure through contact prediction and avoidance. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(2):11:1–11:??, June 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3490492`.

Ayhan:2019:DDF

[ACS19] Samet Ayhan, Pablo Costas, and Hanan Samet. A data-driven framework for long-range aircraft conflict detection and resolution. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(4):24:1–24:??, December 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3328832`.

Azad:2022:SSI

[ADV+22] Fahim Tasneema Azad, Robert W. Dodge, Allen M. Varghese, Jaejin Lee, Giulia Pedrielli, K. Selçuk Candan, and Gerardo Chowell-Puente. SIRTEM: Spatially informed rapid testing for epidemic modeling and response to COVID-19. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(4):29:1–29:??, December 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3555310`.

Ahmed:2015:PBD

[AFHW15] Mahmuda Ahmed, Brittany Terese Fasy, Kyle S. Hickmann, and Carola Wenk. A path-based distance for street map comparison. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 1(1):3:1–3:28, August 2015. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=2729977`.

Amagata:2017:GFM

[AH17] Daichi Amagata and Takahiro Hara. A general framework for MaxRS and MaxCRS monitoring in spatial data streams. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 3(1):1:1–1:34, May 2017. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=3080554`.

Aydin:2017:MSS

[AKAM17] Berkay Aydin, Ahmet Kucuk, Rafal A. Angryk, and Petrus C. Martens. Measuring the significance of spatiotemporal co-occurrences. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 3(3):9:1–9:??, November 2017. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3139351`.

Almaslukh:2021:TGS

[AKM21] Abdulaziz Almaslukh, Yunfan Kang, and Amr Magdy. Temporal geo-social personalized keyword search over streaming data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7(4):20:1–20:28, December 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3473006`.

Aly:2019:BBC

[AKRH19] Heba Aly, John Krumm, Gireeja Ranade, and Eric Horvitz. To buy or not to buy: Computing value of spatiotemporal information. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(4):22:1–22:??, December 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3320431`.

Alrashid:2023:PPS

[ALM23] Hussah Alrashid, Yongyi Liu, and Amr Magdy. PAGE: Parallel scalable regionalization framework. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(3):21:1–21:??, September 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3611011`.

Almaslukh:2024:SST

[ALM24] Abdulaziz Almaslukh, Yongyi Liu, and Amr Magdy. Scalable spatio-temporal top-k interaction queries on dynamic communities. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 10(1):6:1–6:??, March 2024. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3648374`.

Arge:2023:FRT

[ALSA23] Lars Arge, Aaron Lowe, Svend C. Svendsen, and Pankaj K. Agarwal. 1D and 2D flow routing on a terrain. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(1):3:1–3:??, March 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3539660`.

Aref:2019:ISI

[Are19] Walid G. Aref. Introduction to the special issue on the best papers from the 2017 ACM SIGSPATIAL Conference. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5 (1):1:1–1:??, June 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3325134`.

Aref:2021:ISS

[Are21] Walid G. Aref. Introduction to the special section on the best papers from the 2019 ACM SIGSPATIAL Conference. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7 (4):16:1–16:2, December 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3485049`.

Aref:2023:ESIa

[Are23a] Walid G. Aref. Editorial: Special issue on the best papers from the 2020 ACM SIGSPATIAL Conference. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(1):1:1–1:??, March 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3573198`.

Aref:2023:ESIb

[Are23b] Walid G. Aref. Editorial: Special issue on the best papers from the 2021 ACM SIGSPATIAL Conference. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(4):23:1–23:??, December 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3632619`.

Albert:2019:IMD

[ARF19] Marc Albert, Claudio Ruch, and Emilio Frazzoli. Imbalance in mobility-on-demand systems: A stochastic model and distributed control approach. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(2):13:1–13:??, August 2019. CODEN ???? ISSN 2374-0353. URL `https://`

dl.acm.org/citation.cfm?id=3325914.

Adhikari:2023:ABM

[ASJ+23] Anup Adhikari, Leen-Kiat Soh, Deepti Joshi, Ashok Samal, and Regina Werum. Agent based modeling of the spread of social unrest using infectious disease models. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(3):17:1–17:??, September 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3587463.

Akatsuka:2023:AKF

[AT23] Hiroto Akatsuka and Masayuki Terada. Application of Kalman filter to large-scale geospatial data: Modeling population dynamics. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(1):6:1–6:??, March 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3563692.

Ali:2016:SCQ

[ATS+16] Mohammed Eunus Ali, Egemen Tanin, Peter Scheuermann, Sarana Nutanong, and Lars Kulik. Spatial consensus queries in a collaborative environment. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2 (1):3:1–3:37, April 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL http://dl.acm.org/citation.cfm?id=2829943.

Ayala:2018:STM

[AWD+18] Daniel Ayala, Ouri Wolfson, Bhaskar Dasgupta, Jie Lin, and Bo Xu. Spatio-temporal matching for urban transportation applications. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 3(4):11:1–11:??, May 2018. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3183344.

Brito:2021:SPP

[BASM21] Denise E. F. Brito, Renato M. Assunção, Roberto C. S. N. P. Souza, and Wagner Meira, Jr. SCPP: a point process-based clustering of spatial visiting patterns. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7(1):5:1–5:30, January 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3423405.

Bast:2019:EGG

[BBS19] Hannah Bast, Patrick Brosi, and Sabine Storandt. Efficient generation of geographically accurate transit maps. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5 (4):25:1–25:??, December 2019. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3337790.

Biswas:2023:MAS

[BCC+23] Subhodip Biswas, Fanglan Chen, Zhiqian Chen, Chang-Tien Lu, and Naren Ramakrishnan. Memetic algorithms for spatial partitioning problems. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(1):5:1–5:??, March 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3544779.

Brown:2023:PWB

[BCJ+23] Philip E. Brown, Krystian Czapiga, Arun Jotshi, Yaron Kanza, Velin Kounev, and Poornima Suresh. Planning wireless backhaul links by testing line of sight and Fresnel zone clearance. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9 (1):8:1–8:??, March 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3517382.

Brown:2019:RPS

[BDKS19] Philip E. Brown, Tamraparni Dasu, Yaron Kanza, and Divesh Srivastava. From rocks to pebbles: Smoothing spatiotemporal data streams in an overlay of sensors. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(3):18:1–18:??, September 2019. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3329677.

Behera:2022:EML

[BDS22] Shreetam Behera, Debi Prosad Dogra, and Manoranjan Satpathy. Effect of migrant labourer inflow on the early spread of Covid-19 in Odisha: a case study. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(4):27:1–27:??, December 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3558778.

Both:2018:ISE

[BDW18] Alan Both, Matt Duckham, and Michael F. Worboys. Identifying surrounds and engulfs relations in mobile and coordinate-free geosensor networks. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 4(2):6:1–6:??, August 2018. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3234505.

Bhore:2023:WAP

[BGL+23] Sujoy Bhore, Robert Ganian, Guangping Li, Martin Nöllenburg, and Jules Wulms. Worbel: Aggregating point labels into word clouds. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(3):19:1–19:??, September 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3603376.

Babu:2020:TTB

[BM20] Sarath Babu and B. S. Manoj. Toward a type-based analysis of road networks. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(4):28:1–28:45, August 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3397579.

Burtner:2022:CMM

[BM22] Susan Burtner and Alan T. Murray. COVID-19 and minimizing micro-spatial interactions. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8 (3):18:1–18:??, September 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3486970.

Belussi:2016:SRR

[BMNP16] Alberto Belussi, Sara Migliorini, Mauro Negri, and Giuseppe Pelagatti. Snap rounding with restore: An algorithm for producing robust geometric datasets. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2 (1):1:1–1:36, April 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL http://dl.acm.org/citation.cfm?id=2811256.

Buchin:2016:APS

[BMVS16] Kevin Buchin, Wouter Meulemans, André Van Renssen, and Bettina Speckmann. Area-preserving simplification and schematization of polygonal subdivisions. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2(1):2:1–2:36, April 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL http://dl.acm.org/citation.cfm?id=2818373.

Bose:2021:PST

[BPM21] Sunanda Bose, Sumit Kumar Paul, and Nandini Mukherjee. Predicting spatio-temporal phenomena of mobile resources in sensor cloud infrastructure. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7 (3):11:1–11:38, September 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3446936.

Belesiotis:2018:APS

[BPS18] Alexandros Belesiotis, George Papadakis, and Dimitrios Skoutas. Analyzing and predicting spatial crime distribution using crowdsourced and open data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 3(4):12:1–12:??, May 2018. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3190345.

Budig:2016:MLM

[BVW16] Benedikt Budig, Thomas C. Van Dijk, and Alexander Wolff. Matching labels and markers in historical maps: An algorithm with interactive postprocessing. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2 (4):13:1–13:24, November 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL http://dl.acm.org/citation.cfm?id=2994598.

BinKhunayn:2023:DSM

[BXKR23] Eman Bin Khunayn, Hairuo Xie,

Shanika Karunasekera, and Kotagiri Ramamohanarao. Dynamic straggler mitigation for large-scale spatial simulations. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9 (2):11:1–11:??, June 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3578933.

Coro:2022:HRG

[CB22] Gianpaolo Coro and Pasquale Bove. A high-resolution global-scale model for COVID-19 infection rate. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(3):20:1–20:??, September 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3494531.

Chen:2023:SCB

[CCA23] Zhida Chen, Gao Cong, and Walid G. Aref. STAR: a cache-based stream warehouse system for spatial data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(4):28:1–28:??, December 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3605944.

Cardoso:2022:MGE

[CCB+22] Mário Cardoso, André Cavalheiro, Alexandre Borges, Ana Filipa Duarte, Amílcar Soares, Maria João Pereira, Nuno Jardim Nunes, Leonardo Azevedo, and Arlindo Oliveira. Modeling the geospatial evolution of COVID-19 using spatio-temporal convolutional sequence-to-sequence neural networks. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(4):28:1–28:??, December 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3550272.

Choudhury:2018:BPT

[CCBS18] Farhana M. Choudhury, J. Shane Culpepper, Zhifeng Bao, and Timos Sellis. Batch processing of top-k spatial-textual queries. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 3 (4):13:1–13:??, May 2018. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3196155.

Cicerone:2021:CPS

[CDFP21] Serafino Cicerone, Mattia D'emidio, Daniele Frigioni, and Filippo Tirabassi Pascucci. Combining polygon schematization and decomposition approaches for solving the cavity decomposition problem. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7 (4):22:1–22:37, June 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3462760.

Chawla:2017:CPF

[CEGH17] Sanjay Chawla, Joël Estephan, Joachim Gudmundsson, and

Michael Horton. Classification of passes in football matches using spatiotemporal data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 3 (2):6:1–6:??, August 2017. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3105576`.

Chambers:2020:MMU

[CFWW20] Erin Chambers, Brittany Terese Fasy, Yusu Wang, and Carola Wenk. Map-matching using shortest paths. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(1):6:1–6:17, February 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3368617`.

Custers:2021:MPC

[CKM+21] Bram Custers, Mees Van De Kerkhof, Wouter Meulemans, Bettina Speckmann, and Frank Staals. Maximum physically consistent trajectories. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7 (4):17:1–17:33, June 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3452378`.

Correa:2019:CAR

[CKT+19] Oscar Correa, A. K. M. Mustafizur Rahman Khan, Egemen Tanin, Lars Kulik, and Kotagiri Ramamohanarao. Congestion-aware ridesharing. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(1):5:1–5:??, June 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3317639`.

Costa:2020:RTS

[CN20] Camila F. Costa and Mario A. Nascimento. In-route task selection in spatial crowdsourcing. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6 (2):7:1–7:45, February 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3368268`.

Cao:2019:UMC

[CSF+19] Hancheng Cao, Jagan Sankaranarayanan, Jie Feng, Yong Li, and Hanan Samet. Understanding metropolitan crowd mobility via mobile cellular accessing data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(2):8:1–8:??, August 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3323345`.

Cabannes:2019:RRN

[CSKB19] Théophile Cabannes, Marco Sangiovanni, Alexander Keimer, and Alexandre M. Bayen. Regrets in routing networks: Measuring the impact of routing apps in traffic. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(2):9:1–9:??, August 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3325916`.

Daghistani:2021:SAL

[DAGM21] Anas Daghistani, Walid G. Aref, Arif Ghafoor, and Ahmed R. Mahmood. SWARM: Adaptive load balancing in distributed streaming systems for big spatial data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7(3):14:1–14:43, September 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3460013`.

Das:2020:EDD

[DBB20] Nabanita Das, Souvik Basu, and Sipra Das Bit. Efficient DropBox deployment toward improving post-disaster information exchange in a smart city. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6 (2):9:1–9:18, February 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3373645`.

Teixeira:2021:ISR

[DCAA21] Douglas Do Couto Teixeira, Aline Carneiro Viana, Jussara M. Almeida, and Mário S. Alvim. The impact of stationarity, regularity, and context on the predictability of individual human mobility. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7(4):19:1–19:24, June 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3459625`.

Dong:2018:WAR

[DCY+18] Yuyang Dong, Hanxiong Chen, Jeffrey Xu Yu, Kazutaka Furuse, and Hiroyuki Kitagawa. Weighted aggregate reverse rank queries. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 4(2):5:1–5:??, August 2018. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3225216`.

Damiani:2021:LRD

[DHQ+21] Maria Luisa Damiani, Fatima Hachem, Christian Quadri, Matteo Rossini, and Sabrina Gaito. On location relevance and diversity in human mobility data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7 (2):7:1–7:38, February 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3423404`.

Dan:2022:IGT

[DPD22] Ovidiu Dan, Vaibhav Parikh, and Brian D. Davison. IP geolocation through geographic clicks. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8 (1):2:1–2:??, March 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3476774`.

Das:2020:SSA

[DPG20] Monidipa Das, Mahardhika Pratama, and Soumya K. Ghosh. SARDINE: a self-adaptive recurrent deep incremental network model for spatio-temporal prediction of remote sensing data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6 (3):16:1–16:26, May 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3380972`.

Doocy:2019:RPM

[DPKW19] Lauren Doocy, Steven D. Prager, Joseph T. Kider, Jr., and R. Paul Wiegand. Robust path matching and anomalous route detection using posterior weighted graphs. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(2):14:1–14:??, August 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3338905`.

DeBock:2021:SDD

[DV21] Jelle De Bock and Steven Verstockt. SmarterROUTES — a data-driven context-aware solution for personalized dynamic routing and navigation. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7 (1):2:1–2:25, January 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3402125`.

Darji:2023:PSR

[DV23] Dhruvil Darji and Gustavo Vejarano. Point set registration for target localization using unmanned aerial vehicles. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9 (3):16:1–16:??, September 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3586575`.

Efstathiades:2016:EPR

[EEP16] Christodoulos Efstathiades, Alexandros Efentakis, and Dieter Pfoser. Efficient processing of relevant nearest-neighbor queries. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2 (3):9:1–9:28, October 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=2934675`.

Emiris:2020:PEM

[EP20] Ioannis Z. Emiris and Ioannis Psarros. Products of Euclidean metrics, applied to proximity problems among curves: Unified treatment of discrete Fréchet and dynamic time warping distances. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6 (4):27:1–27:20, August 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3397518`.

Ferreira:2016:EEM

[FAMF16] Chaulio R. Ferreira, Marcus V. A. Andrade, Salles V. G. Magalhães, and W. Randolph Franklin. An efficient external memory algorithm for terrain viewshed computation. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2

(2):6:1–6:17, July 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL http://dl.acm.org/citation.cfm?id=2903206.

Fellegara:2020:TTF

[FDMW20] Riccardo Fellegara, Leila De Floriani, Paola Magillo, and Kenneth Weiss. Tetrahedral trees: a family of hierarchical spatial indexes for tetrahedral meshes. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6 (4):23:1–23:34, August 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3385851.

Fujino:2018:DDI

[FHK+18] Takumi Fujino, Atsushi Hashimoto, Hidekazu Kasahara, Mikihiko Mori, Masaaki Iiyama, and Michihiko Minoh. Detecting deviations from intended routes using vehicular GPS tracks. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 4 (1):1:1–1:??, June 2018. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3204455.

Ferreira:2020:DLA

[FNCO20] Danielle L. Ferreira, Bruno A. A. Nunes, Carlos Alberto V. Campos, and Katia Obraczka. A deep learning approach for identifying user communities based on geographical preferences and its applications to urban and environmental planning. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6 (3):17:1–17:24, May 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3380970.

Fanticelli:2022:DDM

[FRV+22] Haron C. Fanticelli, Solohaja Rabenjamina, Aline Carneiro Viana, Razvan Stanica, Lucas Santos De Oliveira, and Artur Ziviani. Data-driven mobility analysis and modeling: Typical and confined life of a metropolitan population. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(3):23:1–23:??, September 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3517222.

Fan:2022:HMB

[FYZ+22] Zipei Fan, Chuang Yang, Zhiwen Zhang, Xuan Song, Yinghao Liu, Renhe Jiang, Quanjun Chen, and Ryosuke Shibasaki. Human mobility-based individual-level epidemic simulation platform. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8 (3):19:1–19:??, September 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3491063.

Ghinita:2016:PAV

[GDSB16] Gabriel Ghinita, Maria Luisa Damiani, Claudio Silvestri, and

Elisa Bertino. Protecting against velocity-based, proximity-based, and external event attacks in location-centric social networks. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2 (2):8:1–8:36, July 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=2910580`.

Gemsa:2015:MBL

[GHN15] Andreas Gemsa, Jan-Henrik Haunert, and Martin Nöllenburg. Multirow boundary-labeling algorithms for panorama images. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 1 (1):1:1–1:30, August 2015. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=2794299`.

Gudmundsson:2021:PIS

[GHPS21] Joachim Gudmundsson, Michael Horton, John Pfeifer, and Martin P. Seybold. A practical index structure supporting Fréchet proximity queries among trajectories. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7(3):15:1–15:33, September 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3460121`.

Goel:2016:PAD

[GKR16] Preeti Goel, Lars Kulik, and Kotagiri Ramamohanarao. Privacy-aware dynamic ride sharing. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2 (1):4:1–4:41, April 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=2845080`.

Gollapudi:2019:ISI

[Gol19] Sreenivas Gollapudi. Introduction to the special issue on urban mobility: Algorithms and systems. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(2):7:1–7:??, August 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3346023`.

Gudmundsson:2023:PNS

[GPS23] Joachim Gudmundsson, John Pfeifer, and Martin P. Seybold. On practical nearest sub-trajectory queries under the Fréchet distance. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(2):14:1–14:??, June 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3587426`.

Guting:2015:ST

[GVD15] Ralf Hartmut Güting, Fabio Valdés, and Maria Luisa Damiani. Symbolic trajectories. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 1(2):7:1–7:51, November 2015. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=2786756`.

He:2021:MIA

[HBH+21] Eric He, Fan Bai, Curtis Hay, Jinzhu Chen, and Vijayakumar Bhagavatula. A map inference approach using signal processing from crowd-sourced GPS data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7 (2):9:1–9:23, February 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3431785.

Huang:2020:IIT

[HHRR20] Xiaohui Huang, Pan He, Anand Rangarajan, and Sanjay Ranka. Intelligent intersection: Two-stream convolutional networks for real-time near-accident detection in traffic video. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6 (2):10:1–10:28, February 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3373647.

Huang:2024:SST

[HHYT24] Huiqun Huang, Suining He, Xi Yang, and Mahan Tabatabaie. STICAP: Spatio-temporal interactive attention for citywide crowd activity prediction. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 10 (1):3:1–3:??, March 2024. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3603375.

Hemminki:2019:CRS

[HKK+19] Samuli Hemminki, Keisuke Kuribayashi, Shin'ichi Konomi, Petteri Nurmi, and Sasu Tarkoma. Crowd replication: Sensing-assisted quantification of human behavior in public spaces. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5 (3):15:1–15:??, September 2019. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3317666.

Haldar:2023:TCM

[HWD+23] Aparajita Haldar, Shuang Wang, Gunduz Vehbi Demirci, Joe Oakley, and Hakan Ferhatosmanoglu. Temporal cascade model for analyzing spread in evolving networks. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(2):12:1–12:??, June 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3579996.

Hung:2016:SIA

[HYL16] Hui-Ju Hung, De-Nian Yang, and Wang-Chien Lee. Social influence-aware reverse nearest neighbor search. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2(3):12:1–12:35, October 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL http://dl.acm.org/citation.cfm?id=2964906.

Iwata:2017:EPF

[ISNU17] Tomoharu Iwata, Hitoshi Shimizu, Futoshi Naya, and Naonori Ueda. Estimating people flow from spatiotemporal population data via collective graphical mixture models. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 3(1):2:1–2:18, May 2017. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=3080555`.

Jepsen:2022:UBB

[JJN22] Tobias Skovgaard Jepsen, Christian S. Jensen, and Thomas Dyhre Nielsen. UniTE — the best of both worlds: Unifying function-fitting and aggregation-based approaches to travel time and travel speed estimation. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(4):30:1–30:??, December 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3517335`.

Jagadeesh:2019:FCC

[JS19] George R. Jagadeesh and Thambipillai Srikanthan. Fast computation of clustered many-to-many shortest paths and its application to map matching. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(3):17:1–17:??, September 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3329676`.

Jauhri:2020:GRR

[JSL+20] Abhinav Jauhri, Brad Stocks, Jian Hui Li, Koichi Yamada, and John Paul Shen. Generating realistic ride-hailing datasets using GANs. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(3):18:1–18:14, May 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3380968`.

Joshi:2022:FBM

[JSR+22] Manas Joshi, Arshdeep Singh, Sayan Ranu, Amitabha Bagchi, Priyank Karia, and Puneet Kala. FoodMatch: Batching and matching for food delivery in dynamic road networks. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(1):6:1–6:??, March 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3494530`.

Jiang:2022:SCT

[JZZ+22] Ting Jiang, Yang Zhang, Minhao Zhang, Ting Yu, Yizheng Chen, Chenhao Lu, Ji Zhang, Zhao Li, Jun Gao, and Shuigeng Zhou. A survey on contact tracing: The latest advancements and challenges. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(2):9:1–9:??, June 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3494529`.

Kato:2022:PTT

[KCY22] Fumiyuki Kato, Yang Cao, and Mastoshi Yoshikawa. PCT-TEE: Trajectory-based private contact tracing system with trusted execution environment. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8 (2):13:1–13:??, June 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3490491.

Khan:2018:ECO

[KKT+18] A. K. M. Mustafizur Rahman Khan, Lars Kulik, Egemen Tanin, Hua Hua, and Tanzima Hashem. Efficient computation of the optimal accessible location for a group of mobile agents. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 4 (4):10:1–10:??, October 2018. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3239124.

Karagiorgou:2017:LAM

[KPS17] Sophia Karagiorgou, Dieter Pfoser, and Dimitrios Skoutas. A layered approach for more robust generation of road network maps from vehicle tracking data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 3 (1):3:1–3:21, May 2017. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL http://dl.acm.org/citation.cfm?id=3061713.

Kovanen:2015:TAC

[KS15] Janne Kovanen and Tapani Sarjakoski. Tilewise accumulated cost surface computation with graphics processing units. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 1(2):8:1–8:27, November 2015. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL http://dl.acm.org/citation.cfm?id=2803172.

Krapu:2023:RBN

[KSR23] Christopher Krapu, Robert Stewart, and Amy Rose. A review of Bayesian networks for spatial data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(1):7:1–7:??, March 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3516523.

Kannangara:2019:SSG

[KTHK19] Sameera Kannangara, Egemen Tanin, Aaron Harwood, and Shanika Karunasekera. Stepping stone graph: A graph for finding movement corridors using sparse trajectories. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5 (4):23:1–23:??, December 2019. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3324883.

Koide:2018:EIQ

[KTY+18] Satoshi Koide, Yukihiro Tadokoro, Takayoshi Yoshimura, Chuan Xiao, and Yoshiharu Ishikawa. Enhanced indexing and querying of trajectories in road networks via string algorithms. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 4(1):3:1–3:??, June 2018. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3200200`.

Lowe:2019:FRA

[LA19] Aaron Lowe and Pankaj K. Agarwal. Flood-risk analysis on terrains under the multiflow-direction model. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(4):26:1–26:??, December 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3340707`.

Li:2020:TGF

[LCKQ20] Wei Li, Haiquan Chen, Wei-Shinn Ku, and Xiao Qin. TurboGTS: a fast framework of optimizing task throughput for large-scale mobile crowdsourcing. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6 (1):1:1–1:29, February 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3363450`.

Li:2019:PTT

[LGLG19] Yang Li, Dimitrios Gunopulos, Cewu Lu, and Leonidas J. Guibas. Personalized travel time prediction using a small number of probe vehicles. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(1):4:1–4:??, June 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3317663`.

Long:2017:SPB

[LH17] Yuan Long and Xiaolin Hu. Spatial partition-based particle filtering for data assimilation in wildfire spread simulation. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 3(2):5:1–5:??, August 2017. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3099471`.

Lin:2022:GBT

[LH22] Fandel Lin and Hsun-Ping Hsieh. A grid-based two-stage parallel matching framework for Bi-objective Euclidean traveling salesman problem. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(4):31:1–31:??, December 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3526025`.

Lin:2023:ENS

[LH23] Fandel Lin and Hsun-Ping Hsieh. Exploiting network structure in multi-criteria distributed and competitive stationary-resource searching. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(4):26:1–26:??, December 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3569937`.

Lorch:2022:QEC

[LKT+22] Lars Lorch, Heiner Kremer, William Trouleau, Stratis Tsirtsis, Aron Szanto, Bernhard Schölkopf, and Manuel Gomez-Rodriguez. Quantifying the effects of contact tracing, testing, and containment measures in the presence of infection hotspots. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(4):25:1–25:??, December 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3530774`.

Lu:2024:FUS

[LL24] Yi-Ju Lu and Cheng-Te Li. Forecasting urban sensory values through learning attention-adjusted graph spatio-temporal networks. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 10(1):4:1–4:??, March 2024. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3635140`.

Leung:2022:BSW

[LLC+22] Raymond Leung, Alexander Lowe, Anna Chlingaryan, Arman Melkumyan, and John Zigman. Bayesian surface warping approach for rectifying geological boundaries using displacement likelihood and evidence from geochemical assays. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(1):3:1–3:??, March 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3476979`.

Luo:2023:GTM

[LLJ+23] Yan Luo, Chak-Tou Leong, Shuhai Jiao, Fu-Lai Chung, Wenjie Li, and Guoping Liu. GeoTile2Vec: a multi-modal and multi-stage embedding framework for urban analytics. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(2):10:1–10:??, June 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3571741`.

Laoudias:2021:IQP

[LNK+21] Christos Laoudias, Artyom Nikitin, Panagiotis Karras, Moustafa Youssef, and Demetrios Zeinalipour-Yazti. Indoor quality-of-position visual assessment using crowdsourced fingerprint maps. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7(2):10:1–10:32, February 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3433026`.

Li:2020:CPM

[LZLL20] Qingzhe Li, Liang Zhao, Yi-Ching Lee, and Jessica Lin. Contrast pattern mining in paired multivariate time series of a controlled driving behavior experiment. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(4):25:1–25:28, August

2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3397272.

Mahmood:2018:DBI

[MAK+18] Ahmed R. Mahmood, Ahmed M. Aly, Tatiana Kuznetsova, Saleh Basalamah, and Walid G. Aref. Disk-based indexing of recent trajectories. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 4(3):7:1–7:??, September 2018. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3234941.

Mehrab:2022:EUH

[MAM+22] Zakaria Mehrab, Aniruddha Adiga, Madhav V. Marathe, Srinivasan Venkatramanan, and Samarth Swarup. Evaluating the utility of high-resolution proximity metrics in predicting the spread of COVID-19. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8 (4):26:1–26:??, December 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3531006.

Mckennney:2015:GMR

[MF15] Mark Mckennney and Roger Frye. Generating moving regions from snapshots of complex regions. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 1(1):4:1–4:30, August 2015. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL http://dl.acm.org/citation.cfm?id=2774220.

Mahin:2019:AAR

[MH19] Mehnaz Tabassum Mahin and Tanzima Hashem. Activity-aware ridesharing group trip planning queries for flexible POIs. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5 (3):20:1–20:??, September 2019. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3341818.

Mariescu-Istodor:2021:VDC

[MICNC21] Radu Mariescu-Istodor, Alexandru Cristian, Mihai Negrea, and Peiwei Cao. VRPDiv: a divide and conquer framework for large vehicle routing problems. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7(4):23:1–23:41, December 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3474832.

Mariescu-Istodor:2017:GBM

[MIF17] Radu Mariescu-Istodor and Pasi Fränti. Grid-based method for GPS route analysis for retrieval. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 3(3):8:1–8:??, November 2017. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3125634.

Mariescu-Istodor:2018:CIR

[MIF18] Radu Mariescu-Istodor and Pasi Fränti. CellNet: Inferring road networks from GPS trajectories. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 4(3):8:1–8:??, September 2018. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3234692`.

Mishra:2020:TSP

[MKW20] Suman Mishra, Lina Kattan, and S. C. Wirasinghe. Transit signal priority along a signalized arterial: a passenger-based approach. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6 (1):5:1–5:19, February 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3355611`.

Middya:2021:SIT

[MR21] Asif Iqbal Middya and Sarbani Roy. Spatial interpolation techniques on participatory sensing data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7(3):13:1–13:32, September 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3457609`.

Middya:2022:CPS

[MRC22] Asif Iqbal Middya, Sarbani Roy, and Debjani Chattopadhyay. CityLightSense: a participatory sensing-based system for monitoring and mapping of illumination levels. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(1):5:1–5:??, March 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3487364`.

Mostafiz:2022:CAO

[MUUR22] Rafid Mostafiz, Mohammad Shorif Uddin, Khandaker Mohammad Mohi Uddin, and Mohammad Motiur Rahman. COVID-19 along with other chest infection diagnoses using faster R-CNN and generative adversarial network. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(3):24:1–24:??, September 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3520125`.

Mokbel:2022:ISI

[MXZY22] Mohamed F. Mokbel, Li Xiong, and Demetrios Zeinalipour-Yazti. Introduction to the special issue on contact tracing. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8 (2):8:1–8:??, June 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3514137`.

Naghizade:2020:PCA

[NKTB20] Elham Naghizade, Lars Kulik, Egemen Tanin, and James Bailey. Privacy- and context-aware release of trajectory data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6 (1):3:1–3:25, February 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3363449`.

Niu:2016:LED

[NLC16] Wei Niu, Zhijiao Liu, and James Caverlee. On local expert discovery via geo-located crowds, queries, and candidates. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2 (4):14:1–14:24, November 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=2994599`.

Nur:2018:GRI

[NT18] Abdullah Yasin Nur and Mehmet Engin Tozal. Geography and routing in the Internet. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 4(4):11:1–11:??, October 2018. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3239162`.

Pillai:2016:MMT

[PAB+16] Karthik Ganesan Pillai, Rafal A. Angryk, Juan M. Banda, Dustin Kempton, Berkay Aydin, and Petrus C. Martens. Mining at most top-K % spatiotemporal co-occurrence patterns in datasets with extended spatial representations. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2(3):10:1–10:27, October 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=2936775`.

Pejo:2022:GTC

[PB22] Balázs Pejó and Gergely Biczók. Games in the time of COVID-19: Promoting mechanism design for pandemic response. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8 (3):21:1–21:??, September 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3503155`.

Pavlovic:2019:DCP

[PBGA19] Mirjana Pavlovic, Kai-Niklas Bastian, Hinnerk Gildhoff, and Anastasia Ailamaki. Dictionary compression in point cloud data management. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(1):3:1–3:??, June 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3299770`.

Petroff:2021:SEA

[Pet21] Matthew A. Petroff. A square equal-area map projection with low angular distortion, minimal cusps, and closed-form solutions. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7(4):21:1–21:16, December 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3460521`.

Purushotham:2016:PGR

[PK16] Sanjay Purushotham and C.-C. Jay Kuo. Personalized group recommender systems for location- and event-based social networks. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2(4):16:1–16:29, November 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=2987381`.

Pietrobon:2019:ARC

[PLHC19] Davide Pietrobon, Andrew P. Lewis, and Gavin S. Heverly-Coulson. An algorithm for road closure detection from vehicle probe data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(2):12:1–12:??, August 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3325912`.

Papadakis:2022:SDP

[PMMK22] George Papadakis, George Mandilaras, Nikos Mamoulis, and Manolis Koubarakis. Static and dynamic progressive geospatial interlinking. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(2):16:1–16:??, June 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3510025`.

Paoluzzi:2021:TCA

[PSD+21] Alberto Paoluzzi, Vadim Shapiro, Antonio Dicarlo, Francesco Furiani, Giulio Martella, and Giorgio Scorzelli. Topological computing of arrangements with (co)chains. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7 (1):1:1–1:29, January 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3401988`.

Pelekis:2016:SOL

[PSTT16] Nikos Pelekis, Stylianos Sideridis, Panagiotis Tampakis, and Yannis Theodoridis. Simulating our LifeSteps by example. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2 (3):11:1–11:39, October 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=2937753`.

Peng:2021:FOS

[PWH21] Dongliang Peng, Alexander Wolff, and Jan-Henrik Haunert. Finding optimal sequences for area aggregation — $A^\star$ vs. integer linear programming. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7 (1):4:1–4:40, January 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3409290`.

Pedersen:2023:SRA

[PYJM23] Simon Aagaard Pedersen, Bin Yang, Christian S. Jensen, and Jesper Møller. Stochastic routing with arrival windows. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9 (4):30:1–30:??, December 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic).

URL https://dl.acm.org/doi/10.1145/3617500.

Qian:2020:UOD

[QKZU20] Xinwu Qian, Dheeraj Kumar, Wenbo Zhang, and Satish V. Ukkusuri. Understanding the operational dynamics of mobility service providers: a case of Uber. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(2):12:1–12:20, February 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3378888.

Qin:2023:MLP

[QRS+23] Kyle K. Qin, Yongli Ren, Wei Shao, Brennan Lake, Filippo Privitera, and Flora D. Salim. Multiple-level point embedding for solving human trajectory imputation with prediction. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9 (2):15:1–15:??, June 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3582427.

Rayhan:2023:AIA

[RH23] Yeasir Rayhan and Tanzima Hashem. AIST: an interpretable attention-based deep learning model for crime prediction. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9 (2):13:1–13:??, June 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3582274.

Rayhan:2019:ESG

[RHJC19] Yeasir Rayhan, Tanzima Hashem, Roksana Jahan, and Muhammad Aamir Cheema. Efficient scheduling of generalized group trips in road networks. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(2):10:1–10:??, August 2019. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3325915.

Rifai:2024:VSD

[RJ24] Mouad Rifai and Lennart Johnsson. VxH: a systematic determination of efficient hierarchical voxel structures. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 10 (1):2:1–2:??, March 2024. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3632404.

Rav:2019:FRA

[RLA19] Mathias Rav, Aaron Lowe, and Pankaj K. Agarwal. Flood risk analysis on terrains. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(1):2:1–2:??, June 2019. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3295459.

Robles-Ortega:2017:EVD

[ROOF17] M. D. Robles-Ortega, L. Ortega, and F. R. Feito. Efficient visibility determination in urban scenes considering terrain information.

ACM Transactions on Spatial Algorithms and Systems (TSAS), 3(3):10:1–10:??, November 2017. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3152536.

Ren:2022:URT

[RRW22] Xinyu Ren, Seyyed Mohammadreza Rahimi, and Xin Wang. Utilization of real time behavior and geographical attraction for location recommendation. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8 (1):4:1–4:??, March 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3484318.

Rizk:2023:LRS

[RYYH23] Hamada Rizk, Hirozumi Yamaguchi, Moustafa Youssef, and Teruo Higashino. Laser range scanners for enabling zero-overhead WiFi-based indoor localization system. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(1):4:1–4:??, March 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3539659.

Rambhatla:2022:TAS

[RZS+22] Sirisha Rambhatla, Sepanta Zeighami, Kameron Shahabi, Cyrus Shahabi, and Yan Liu. Toward accurate spatiotemporal COVID-19 risk scores using high-resolution real-world mobility data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(2):10:1–10:??, June 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3481044.

Sinop:2023:RRU

[SFGK23] Ali Kemal Sinop, Lisa Fawcett, Sreenivas Gollapudi, and Kostas Kollias. Robust routing using electrical flows. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(4):24:1–24:??, December 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3567421.

Shaham:2023:HHT

[SGA+23] Sina Shaham, Gabriel Ghinita, Ritesh Ahuja, John Krumm, and Cyrus Shahabi. HTF: Homogeneous tree framework for differentially private release of large geospatial datasets with self-tuning structure height. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9 (4):25:1–25:??, December 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3569087.

Smolyak:2020:CIG

[SGBM20] Daniel Smolyak, Kathryn Gray, Sarkhan Badirli, and George Mohler. Coupled IGMM-GANs with applications to anomaly detection in human mobility data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6

(4):24:1–24:14, August 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3385809.

Steininger:2020:MEN

[SKZ+20] Michael Steininger, Konstantin Kobs, Albin Zehe, Florian Lautenschlager, Martin Becker, and Andreas Hotho. MapLUR: Exploring a new paradigm for estimating air pollution using deep learning on map images. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6 (3):19:1–19:24, May 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3380973.

Sabek:2019:RSM

[SMM19] Ibrahim Sabek, Mashaal Musleh, and Mohamed F. Mokbel. RegRocket: Scalable multinomial autologistic regression with unordered categorical variables using Markov logic networks. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5 (4):27:1–27:??, December 2019. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3366459.

Sydora:2022:BOS

[SNBS22] Christoph Sydora, Faiza Nawaz, Leepakshi Bindra, and Eleni Stroulia. Building occupancy simulation and analysis under virus scenarios. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(3):17:1–17:??, September 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3486898.

Souza:2020:STD

[SOdB+20] Roberto C. S. N. P. Souza, Derick M. Oliveira, Denise E. F. de Brito, Renato M. Assunção, and Wagner Meira Jr. Space-time drift point detection in mobility patterns. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(1):4:1–4:24, February 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/abs/10.1145/3360721.

Skoumas:2016:LEU

[SPKS16] Georgios Skoumas, Dieter Pfoser, Anastasios Kyrillidis, and Timos Sellis. Location estimation using crowdsourced spatial relations. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2(2):5:1–5:23, July 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL http://dl.acm.org/citation.cfm?id=2894745.

Sun:2021:RTE

[SS21] Yuhan Sun and Mohamed Sarwat. Riso-Tree: an efficient and scalable index for spatial entities in graph database management systems. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7(3):12:1–12:39, September 2021. CO-

DEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3450945`.

Sharma:2024:SAD

[SSSJ24] Praval Sharma, Ashok Samal, Leen-Kiat Soh, and Deepti Joshi. A spatially-aware data-driven approach to automatically geocoding non-gazetteer place names. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 10(1):1:1–1:??, March 2024. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3627987`.

Suzuki:2019:PVP

[SSTN19] Jun Suzuki, Yoshihiko Suhara, Hiroyuki Toda, and Kyosuke Nishida. Personalized visited-POI assignment to individual raw GPS trajectories. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5 (3):16:1–16:??, September 2019. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3317667`.

Schoemans:2023:CTV

[SSZ23] Maxime Schoemans, Mahmoud Sakr, and Esteban Zimányi. On computing the time-varying distance between moving bodies. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(4):29:1–29:??, December 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3611010`.

Shao:2020:ILA

[STZ+20] Wei Shao, Siyu Tan, Sichen Zhao, Kyle Kai Qin, Xinhong Hei, Jeffrey Chan, and Flora D. Salim. Incorporating LSTM auto-encoders in optimizations to solve parking officer patrolling problem. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(3):20:1–20:21, May 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3380966`.

Tang:2022:ALP

[Tan22] Qiang Tang. Another look at privacy-preserving automated contact tracing. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(2):12:1–12:??, June 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3490490`.

Tampakis:2020:DSJ

[TDPT20] Panagiotis Tampakis, Christos Doulkeridis, Nikos Pelekis, and Yannis Theodoridis. Distributed subtrajectory join on massive datasets. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(2):8:1–8:29, February 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3373642`.

Toll:2018:MAM

[TIKG18] Wouter Van Toll, Atlas F. Cook Iv, Marc J. Van Kreveld, and

Roland Geraerts. The medial axis of a multi-layered environment and its application as a navigation mesh. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 4(1):2:1–2:??, June 2018. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3204456`.

Teng:2017:TMS

[TKC17] Shan-Yun Teng, Wei-Shinn Ku, and Kun-Ta Chuang. Toward mining stop-by behaviors in indoor space. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 3(2):7:1–7:??, August 2017. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3106736`.

Touya:2020:DLE

[TL20] Guillaume Touya and Imran Lokhat. Deep learning for enrichment of vector spatial databases: Application to highway interchange. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(3):21:1–21:21, May 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3382080`.

Tokuda:2020:NAP

[TLF+20] Eric K. Tokuda, Yitzchak Lockerman, Gabriel B. A. Ferreira, Ethan Sorrelgreen, David Boyle, Roberto M. Cesar, Jr., and Claudio T. Silva. A new approach for pedestrian density estimation using moving sensors and computer vision. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(4):26:1–26:20, August 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3397575`.

Teng:2022:ESQ

[TLV+22] Dejun Teng, Yanhui Liang, Hoang Vo, Jun Kong, and Fusheng Wang. Efficient 3D spatial queries for complex objects. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(2):14:1–14:??, June 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3502221`.

That:2015:TGT

[TPZ15] Dai Hai Ton That, Iulian Sandu Popa, and Karine Zeitouni. TRIFL: A generic trajectory index for flash storage. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 1(2):6:1–6:44, November 2015. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `http://dl.acm.org/citation.cfm?id=2786758`.

To:2015:SAS

[TSK15] Hien To, Cyrus Shahabi, and Leyla Kazemi. A server-assigned spatial crowdsourcing framework. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 1(1):2:1–2:28, August 2015. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL http://dl.acm.org/citation.cfm?id=2729713.

Teng:2023:DOC

[TTZ23] Xu Teng, Goce Trajcevski, and Andreas Züfle. Distance, origin and category constrained paths. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9 (3):18:1–18:??, September 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3596601.

Tang:2015:EGF

[TYZO15] Suhua Tang, Yi Yu, Roger Zimmermann, and Sadao Obana. Efficient geo-fencing via hybrid hashing: A combination of bucket selection and in-bucket binary search. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 1(2):5:1–5:22, November 2015. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL http://dl.acm.org/citation.cfm?id=2774219.

Uddin:2023:DRG

[UMR+23] Reaz Uddin, Mehnaz Tabassum Mahin, Payas Rajan, Chinya V. Ravishankar, and Vassilis J. Tsotras. Dwell regions: Generalized stay regions for streaming and archival trajectory data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(2):9:1–9:??, June 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3543850.

Valdes:2022:MMM

[Val22] Fabio Valdes. MFPMiner: Mining meaningful frequent patterns from spatio-textual trajectories. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8 (1):7:1–7:??, March 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3498728.

Vu:2021:UDL

[VBME21] Tin Vu, Alberto Belussi, Sara Migliorini, and Ahmed Eldway. Using deep learning for big spatial data partitioning. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7 (1):3:1–3:37, January 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3402126.

Vollmer:2018:HSA

[VTSD18] Jan Ole Vollmer, Matthias Trapp, Heidrun Schumann, and Jürgen Döllner. Hierarchical spatial aggregation for level-of-detail visualization of 3D thematic data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 4(3):9:1–9:??, September 2018. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3234506.

Wang:2020:SGS

[WCC+20] Senzhang Wang, Jiannong Cao, Hao Chen, Hao Peng, and Zhiqiu Huang. SeqST-GAN: Seq2Seq generative adversarial nets for multi-step urban crowd flow prediction. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(4):22:1–22:24, August 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3378889`.

Wang:2020:TTG

[WCM20] Lijing Wang, Jiangzhuo Chen, and Madhav Marathe. TDEFSI: Theory-guided deep learning-based epidemic forecasting with synthetic information. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6 (3):15:1–15:39, May 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3380971`.

Werner:2021:GAE

[Wer21] Martin Werner. GloBiMapsAI: an AI-enhanced probabilistic data structure for global raster datasets. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7(4):18:1–18:24, June 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3453184`.

Wang:2023:AUP

[WFL+23] Dongjie Wang, Yanjie Fu, Kunpeng Liu, Fanglan Chen, Pengyang Wang, and Chang-Tien Lu. Automated urban planning for reimagining city configuration via adversarial learning: Quantification, generation, and evaluation. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(1):2:1–2:??, March 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3524302`.

Wolfson:2023:GRM

[WGJT23] Ouri Wolfson, Prabin Giri, Sushil Jajodia, and Goce Trajcevski. Geographic-region monitoring by drones in adversarial environments. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(3):22:1–22:??, September 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3611009`.

Wang:2018:VMF

[WK18] Nana Wang and Mohan Kankanhalli. 2D vector map fragile watermarking with region location. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 4(4):12:1–12:??, October 2018. CODEN ???? ISSN 2374-0353. URL `https://dl.acm.org/citation.cfm?id=3239163`.

Wang:2019:ADR

[WLL+19] Haiquan Wang, Yilin Li, Guoping Liu, Xiang Wen, and Xiaohu Qie. Accurate detection of road network anomaly by understanding crowd's driving strategies from human mobility. *ACM Transactions on Spatial Algorithms and Systems*

(TSAS), 5(2):11:1–11:??, August 2019. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3325913.

Whitman:2019:DSS

[WMPH19] Randall T. Whitman, Bryan G. Marsh, Michael B. Park, and Erik G. Hoel. Distributed spatial and spatio-temporal join on Apache spark. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5(1):6:1–6:??, June 2019. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3325135.

Xiao:2022:REM

[XWG+22] Mengbai Xiao, Hao Wang, Liang Geng, Rubao Lee, and Xiaodong Zhang. An RDMA-enabled in-memory computing platform for R-tree on clusters. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(2):15:1–15:??, June 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3503513.

Yin:2023:MDL

[YHT+23] Yifang Yin, Wenmiao Hu, An Tran, Ying Zhang, Guanfeng Wang, Hannes Kruppa, Roger Zimmermann, and See-Kiong Ng. Multimodal deep learning for robust road attribute detection. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(4):27:1–27:??, December 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3618108.

Youssef:2020:ISI

[YKC20] Moustafa Youssef, John Krum, and Muhammad Aamir Cheema. Introduction to the special issue on deep learning for spatial algorithms and systems. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(3):14:1–14:2, May 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3386878.

Yang:2020:SFB

[YÖR20] Dongfang Yang, Ümit Özgüner, and Keith Redmill. A social force based pedestrian motion model considering multi-pedestrian interaction with a vehicle. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(2):11:1–11:27, February 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3373646.

Yin:2018:FBM

[YSWZ18] Yifang Yin, Rajiv Ratn Shah, Guanfeng Wang, and Roger Zimmermann. Feature-based map matching for low-sampling-rate GPS trajectories. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 4(2):4:1–4:??, August 2018. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3223049.

Zufle:2022:ISIa

[ZAG22] Andreas Züfle, Taylor Anderson, and Song Gao. Introduction to the special issue on understanding the spread of COVID-19, Part 1. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(3):17:1–17:??, September 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3568670.

Zhao:2016:OSE

[ZCLR16] Liang Zhao, Feng Chen, Chang-Tien Lu, and Naren Ramakrishnan. Online spatial event forecasting in microblogs. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 2 (4):15:1–15:39, November 2016. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL http://dl.acm.org/citation.cfm?id=2997642.

Zufle:2022:ISIb

[ZGA22] Andreas Züfle, Song Gao, and Taylor Anderson. Introduction to the special issue on understanding the spread of COVID-19, Part 2. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8(4):25:1–25:??, December 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3568669.

Zhao:2019:SAR

[ZGP19] Liang Zhao, Olga Gkountouna, and Dieter Pfoser. Spatial auto-regressive dependency interpretable learning based on spatial topological constraints. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 5 (3):19:1–19:??, September 2019. CODEN ???? ISSN 2374-0353. URL https://dl.acm.org/citation.cfm?id=3339823.

Zhang:2021:ADI

[ZSBA21] Xiaowei Zhang, Aly Shehata, Bedrich Benes, and Daniel Aliaga. Automatic deep inference of procedural cities from global-scale spatial data. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7 (2):6:1–6:28, February 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/10.1145/3423422.

Zhang:2020:DPS

[ZSFB20] Rui Zhang, Kevin G. Stanley, Daniel Fuller, and Scott Bell. Differentiating population spatial behavior using representative features of geospatial mobility (ReFGeM). *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(1):2:1–2:25, February 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL https://dl.acm.org/doi/abs/10.1145/3362063.

Zakaria:2022:AIC

[ZTC+22] Camellia Zakaria, Amee Trivedi, Emmanuel Cecchet, Michael Chee, Prashant Shenoy, and Rajesh Balan. Analyzing the impact of COVID-19 control policies on campus occupancy and mobility via WiFi sensing. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 8 (3):22:1–22:??, September 2022. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3516524`.

Zhou:2020:SST

[ZWT+20] Fan Zhou, Hantao Wu, Goce Trajcevski, Ashfaq Khokhar, and Kunpeng Zhang. Semi-supervised trajectory understanding with POI attention for end-to-end trip recommendation. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 6(2):13:1–13:25, February 2020. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3378890`.

Zang:2024:DIH

[ZXTZ24] Andi Zang, Runsheng Xu, Goce Trajcevski, and Fan Zhou. Data issues in high-definition maps furniture — a survey. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 10 (1):5:1–5:??, March 2024. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3627160`.

Zhang:2023:DSP

[ZYLZ23] Minxing Zhang, Dazhou Yu, Yun Li, and Liang Zhao. Deep spatial prediction via heterogeneous multi-source self-supervision. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 9(3):20:1–20:??, September 2023. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3605358`.

Zhu:2021:PCK

[ZYW+21] Huaijie Zhu, Xiaochun Yang, Bin Wang, Wang-Chien Lee, Jian Yin, and Jianliang Xu. Processing continuous k nearest neighbor queries in obstructed space with Voronoi diagrams. *ACM Transactions on Spatial Algorithms and Systems (TSAS)*, 7 (2):8:1–8:27, February 2021. CODEN ???? ISSN 2374-0353 (print), 2374-0361 (electronic). URL `https://dl.acm.org/doi/10.1145/3425955`.