A Complete Bibliography of *ACM Transactions on Parallel Computing (TOPC)*

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/

01 June 2020
Version 1.18

Title word cross-reference

k [SLL+20].

-way [SLL+20].

1 [TPFH20].

2013 [DH15]. **2014** [MSS16]. **2016** [BHHL17a, BHHL17b, Gil18].

3 [HDT+15].

Abort [DR15]. **Abstract** [GNC+17]. **Accelerating** [HSY+20]. **Acceleration** [GCF+20]. **Accelerators** [HKL+14]. **Access** [AG18, AKMW18, HDT+15]. **Accesses** [KD19]. **Accuracy** [BHB+15]. **ACM** [Gib14]. **Adaptive** [GWWL16, JCG+14, MSA+18, MWF+19]. **Adaptivity** [LPY18]. **Adding** [ST17]. **Addressing** [DAC+16]. **Affine** [DMB16]. **Against** [ES15]. **Aggregation** [GNC+17]. **Airwaves** [GZ15]. **Algorithm** [ADMO17, BHB+15, CDPN19, SLL+20, SB14]. **Algorithm-Based** [BHB+15]. **Algorithmic** [GNC+17]. **Algorithms** [AG18, AKPM20, BCRS16, CGT+17, JMT16, Kha19, KX16, KMVV15, MMM16, PRS18, SG15]. **Aligners** [SMM+16]. **All-to-All** [SS19]. **Allocating** [SA16]. **Allocation** [JPK+15, XZZY15]. **Allocator** [MSA+18]. **Among** [CB16]. **Analysis** [PSFB19, SBF+16]. **Analytics** [WPD+17]. **APGAS** [THC+16]. **application** [SB14].

X10 [THC+16].

References

Anzt:2020:LBS

[ACYC+20] Hartwig Anzt, Terry Cojean, Chen Yen-Chen, Jack Dongarra, Goran Flegar, Pratik Nayak, Stanimire Tomov, Yuhsiang M. Tsai, and Weichung Wang. Load-balancing sparse matrix vector product kernels on GPUs. *ACM Transactions on Parallel Computing (TOPC)*, 7(1): 2:1–2:26, April 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3380930`.

Ashkiani:2017:GME

[ADMO17] Saman Ashkiani, Andrew Davidson, Ulrich Meyer, and John D. Owens. GPU Multisplit: an extended study of a parallel algorithm. *ACM Transactions on Parallel Computing (TOPC)*, 4 (1):2:1–2:??, October 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Ahn:2018:ADN

[AG18] Kook Jin Ahn and Sudipto Guha. Access to data and number of iterations: Dual primal algorithms for maximum matching under resource constraints. *ACM Transactions on Parallel Computing (TOPC)*, 4(4):17:1–17:??, September 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Aupy:2019:SSP

[AGL19] Guilllaume Aupy, Ana Gainaru, and Valentin Le Fèvre. I/O scheduling strategy for periodic applications. *ACM Transactions on Parallel Computing (TOPC)*, 6(2):7:1–7:??, September 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3338510`.

Aravind:2019:GME

[AH19] Alex Aravind and Wim H. Hesselink. Group mutual exclusion by fetch-and-increment. *ACM Transactions on Parallel Computing (TOPC)*, 5(4): 14:1–14:??, March 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3309202`.

Anta:2018:SDP

[AKMW18] Antonio Fernández Anta, Dariusz R. Kowalski, Miguel A. Mosteiro, and Prudence W. H. Wong. Scheduling dynamic parallel workload of mobile devices with access guarantees. *ACM Transactions on Parallel Computing (TOPC)*, 5(2):10:1–10:??, January 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Alam:2020:GMS

[AKPM20] Maksudul Alam, Maleq Khan, Kalyan S. Perumalla, and Madhav Marathe. Generating massive scale-free networks: Novel

parallel algorithms using the preferential attachment model. *ACM Transactions on Parallel Computing (TOPC)*, 7(2): 13:1–13:35, May 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3391446`.

Anderson:2020:RRO

[AKS+20] Jeff Anderson, Engin Kayraklioglu, Shuai Sun, Joseph Crandall, Yousra Alkabani, Vikram Narayana, Volker Sorger, and Tarek El-Ghazawi. ROC: a reconfigurable optical computer for simulating physical processes. *ACM Transactions on Parallel Computing (TOPC)*, 7(1): 8:1–8:29, April 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3380944`.

Amer:2018:LCM

[ALB+18] Abdelhalim Amer, Huiwei Lu, Pavan Balaji, Milind Chabbi, Yanjie Wei, Jeff Hammond, and Satoshi Matsuoka. Lock contention management in multithreaded MPI. *ACM Transactions on Parallel Computing (TOPC)*, 5(3):12:1–12:??, January 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3275443`.

Albers:2019:ECD

[Alb19] Susanne Albers. On energy conservation in data centers. *ACM Transactions on Parallel Computing (TOPC)*, 6(3):13:1–13:??, October 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3364210`.

Alistarh:2018:TAS

[ALMS18] Dan Alistarh, William Leiserson, Alexander Matveev, and Nir Shavit. ThreadScan: Automatic and scalable memory reclamation. *ACM Transactions on Parallel Computing (TOPC)*, 4 (4):18:1–18:??, September 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Agrawal:2018:ISI

[ALS18] Kunal Agrawal, I-Ting Angelina Lee, and Michael Spear. Introduction to special issue on SPAA'15. *ACM Transactions on Parallel Computing (TOPC)*, 4 (4):16:1–16:??, September 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Akbudak:2018:PMS

[ASA18] Kadir Akbudak, Oguz Selvitopi, and Cevdet Aykanat. Partitioning models for scaling parallel sparse matrix–matrix multiplication. *ACM Transactions on Parallel Computing (TOPC)*, 4(3): 13:1–13:??, April 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Azar:2019:TBC

[AV19] Yossi Azar and Danny Vainstein. Tight bounds for clair-

voyant dynamic bin packing. *ACM Transactions on Parallel Computing (TOPC)*, 6(3):15:1–15:??, October 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3364214`.

Bader:2019:EEC

[Bad19] David A. Bader. Editorial from the Editor-in-Chief. *ACM Transactions on Parallel Computing (TOPC)*, 6(1):1:1–1:??, June 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3325883`.

Behzad:2019:OPH

[BBPS19] Babak Behzad, Surendra Byna, Prabhat, and Marc Snir. Optimizing I/O performance of HPC applications with autotuning. *ACM Transactions on Parallel Computing (TOPC)*, 5(4):15:1–15:??, March 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3309205`.

Benoit:2016:AGP

[BCRS16] Anne Benoit, Aurélien Cavelan, Yves Robert, and Hongyang Sun. Assessing general-purpose algorithms to cope with fail-stop and silent errors. *ACM Transactions on Parallel Computing (TOPC)*, 3(2):13:1–13:??, August 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Burtscher:2018:HQF

[BDA+18] Martin Burtscher, Sindhu Devale, Sahar Azimi, Jayadharini Jaiganesh, and Evan Powers. A high-quality and fast maximal independent set implementation for GPUs. *ACM Transactions on Parallel Computing (TOPC)*, 5(2):8:1–8:??, January 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Ballard:2015:ACS

[BDK15] Grey Ballard, James Demmel, and Nicholas Knight. Avoiding communication in successive band reduction. *ACM Transactions on Parallel Computing (TOPC)*, 1(2):11:1–11:??, January 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Ballard:2016:HPS

[BDKS16] Grey Ballard, Alex Druinsky, Nicholas Knight, and Oded Schwartz. Hypergraph partitioning for sparse matrix–matrix multiplication. *ACM Transactions on Parallel Computing (TOPC)*, 3(3):18:1–18:??, December 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Bohme:2016:IRC

[BGA+16] David Böhme, Markus Geimer, Lukas Arnold, Felix Voigtlaender, and Felix Wolf. Identifying the root causes of wait states in large-scale parallel applications. *ACM Transactions on Parallel*

Computing (TOPC), 3(2):11:1–11:??, August 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Bercea:2016:CMI

[BGHS16] Ioana O. Bercea, Navin Goyal, David G. Harris, and Aravind Srinivasan. On computing maximal independent sets of hypergraphs in parallel. *ACM Transactions on Parallel Computing (TOPC)*, 3(1):5:1–5:??, August 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Bilo:2016:LBN

[BGLP16] Davide Bilò, Luciano Gualà, Stefano Leucci, and Guido Proietti. Locality-based network creation games. *ACM Transactions on Parallel Computing (TOPC)*, 3 (1):6:1–6:??, August 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Bouteiller:2015:ABF

[BHB+15] Aurelien Bouteiller, Thomas Herault, George Bosilca, Peng Du, and Jack Dongarra. Algorithm-based fault tolerance for dense matrix factorizations, multiple failures and accuracy. *ACM Transactions on Parallel Computing (TOPC)*, 1(2):10:1–10:??, January 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Ballard:2017:GEIa

[BHHL17a] Grey Ballard, Mary Hall, Tim Harris, and Brandon Lucia. Guest Editor introduction PPoPP 2016, special issue 2 of 2. *ACM Transactions on Parallel Computing (TOPC)*, 4(1): 1:1–1:??, October 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Ballard:2017:GEIb

[BHHL17b] Grey Ballard, Mary Hall, Tim Harris, and Brandon Lucia. Guest Editor introduction PPoPP 2016, special issue 2 of 2. *ACM Transactions on Parallel Computing (TOPC)*, 4(2): 6:1–6:??, October 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Bateni:2019:ISI

[BHL19] Mohammed Hossein Bateni, Mohammad T. Hajiaghayi, and Silvio Lattanzi. Introduction to the special issue for SPAA'17. *ACM Transactions on Parallel Computing (TOPC)*, 6(3):10:1–10:??, October 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3363417`.

Blanchard:2016:SMO

[BOU16] Jeffrey D. Blanchard, Erik Opavsky, and Emircan Uysaler. Selecting multiple order statistics with a graphics processing unit. *ACM Transactions on Parallel Computing (TOPC)*, 3(2): 10:1–10:??, August 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Bilardi:2018:LBT

[BSS18] Gianfranco Bilardi, Michele Scquizzato, and Francesco Silvestri. A lower bound technique for communication in BSP. *ACM Transactions on Parallel Computing (TOPC)*, 4(3):14:1–14:??, April 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Bonifaci:2019:GPT

[BWB+19] Vincenzo Bonifaci, Andreas Wiese, Sanjoy K. Baruah, Alberto Marchetti-Spaccamela, Sebastian Stiller, and Leen Stougie. A generalized parallel task model for recurrent real-time processes. *ACM Transactions on Parallel Computing (TOPC)*, 6(1):3:1–3:??, June 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3322809`.

Creech:2016:TSS

[CB16] Timothy Creech and Rajeev Barua. Transparently space sharing a multicore among multiple processes. *ACM Transactions on Parallel Computing (TOPC)*, 3(3):17:1–17:??, December 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Chatzopoulos:2017:EES

[CDG17] Georgios Chatzopoulos, Aleksandar Dragojević, and Rachid Guerraoui. ESTIMA: Extrapolating ScalabiliTy of in-memory applications. *ACM Transactions on Parallel Computing (TOPC)*, 4(2):10:1–10:??, October 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Cruz:2019:ETM

[CDPN19] Eduardo H. M. Cruz, Matthias Diener, Laércio L. Pilla, and Philippe O. A. Navaux. EagerMap: a task mapping algorithm to improve communication and load balancing in clusters of multicore systems. *ACM Transactions on Parallel Computing (TOPC)*, 5(4):17:1–17:??, March 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3309711`.

Chowdhury:2017:AAD

[CGT+17] Rezaul Chowdhury, Pramod Ganapathi, Stephen Tschudi, Jesmin Jahan Tithi, Charles Bachmeier, Charles E. Leiserson, Armando Solar-Lezama, Bradley C. Kuszmaul, and Yuan Tang. Autogen: Automatic discovery of efficient recursive divide-&-conquer algorithms for solving dynamic programming problems. *ACM Transactions on Parallel Computing (TOPC)*, 4(1):4:1–4:??, October 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Cole:2017:ROS

[CR17] Richard Cole and Vijaya Ramachandran. Resource oblivious sorting on multicores. *ACM Transactions on Parallel Com-*

puting (TOPC), 3(4):23:1–23:??, March 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Cooper:2019:NCT

[CRR19] Colin Cooper, Tomasz Radzik, and Nicolas Rivera. New cover time bounds for the coalescing-branching random walk on graphs. *ACM Transactions on Parallel Computing (TOPC)*, 6 (3):16:1–16:??, October 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3364206`.

Chen:2018:PDG

[CSC+18] Rong Chen, Jiaxin Shi, Yanzhe Chen, Binyu Zang, Haibing Guan, and Haibo Chen. PowerLyra: Differentiated graph computation and partitioning on skewed graphs. *ACM Transactions on Parallel Computing (TOPC)*, 5(3):13:1–13:??, January 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Cao:2017:HRD

[CZS+17] Man Cao, Minjia Zhang, Aritra Sengupta, Swarnendu Biswas, and Michael D. Bond. Hybridizing and relaxing dependence tracking for efficient parallel runtime support. *ACM Transactions on Parallel Computing (TOPC)*, 4(2):9:1–9:??, October 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Dorier:2016:DAP

[DAC+16] Matthieu Dorier, Gabriel Antoniu, Franck Cappello, Marc Snir, Robert Sisneros, Orcun Yildiz, Shadi Ibrahim, Tom Peterka, and Leigh Orf. Damaris: Addressing performance variability in data management for post-petascale simulations. *ACM Transactions on Parallel Computing (TOPC)*, 3(3):15:1–15:??, December 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Dinitz:2015:ISI

[DH15] Michael Dinitz and Torsten Hoefler. Introduction to the special issue on SPAA 2013. *ACM Transactions on Parallel Computing (TOPC)*, 2(3):14:1–14:??, October 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Degener:2015:LCS

[DKKM15] Bastian Degener, Barbara Kempkes, Peter Kling, and Friedhelm Meyer Auf Der Heide. Linear and competitive strategies for continuous robot formation problems. *ACM Transactions on Parallel Computing (TOPC)*, 2 (1):2:1–2:??, May 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Dathathri:2016:CAL

[DMB16] Roshan Dathathri, Ravi Teja Mullapudi, and Uday Bondhugula. Compiling affine loop nests for a dynamic scheduling runtime on shared and

distributed memory. *ACM Transactions on Parallel Computing (TOPC)*, 3(2):12:1–12:??, August 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Dice:2015:LCG

[DMS15] David Dice, Virendra J. Marathe, and Nir Shavit. Lock cohorting: a general technique for designing NUMA locks. *ACM Transactions on Parallel Computing (TOPC)*, 1(2):13:1–13:??, January 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Dutta:2015:CBR

[DPRR15] Chinmoy Dutta, Gopal Pandurangan, Rajmohan Rajaraman, and Scott Roche. Coalescing-branching random walks on graphs. *ACM Transactions on Parallel Computing (TOPC)*, 2 (3):20:1–20:??, October 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Diegues:2015:TWE

[DR15] Nuno Diegues and Paolo Romano. Time-Warp: Efficient abort reduction in transactional memory. *ACM Transactions on Parallel Computing (TOPC)*, 2 (2):12:1–12:??, July 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Duan:2020:CSR

[DSD+20] Shaohua Duan, Pradeep Subedi, Philip Davis, Keita Teranishi, Hemanth Kolla, Marc Gamell, and Manish Parashar. CoREC: Scalable and resilient in-memory data staging for in-situ workflows. *ACM Transactions on Parallel Computing (TOPC)*, 7(2):12:1–12:29, May 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3391448`.

Das:2020:SMP

[DSMT20] Apurba Das, Seyed-Vahid Sanei-Mehri, and Srikanta Tirthapura. Shared-memory parallel maximal clique enumeration from static and dynamic graphs. *ACM Transactions on Parallel Computing (TOPC)*, 7(1): 5:1–5:28, April 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3380936`.

Dimitrov:2018:RDT

[DVS18] Dimitar Dimitrov, Martin Vechev, and Vivek Sarkar. Race detection in two dimensions. *ACM Transactions on Parallel Computing (TOPC)*, 4(4):19:1–19:??, September 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Eyraud-Dubois:2015:PST

[EDMSV15] Lionel Eyraud-Dubois, Loris Marchal, Oliver Sinnen, and Frédéric Vivien. Parallel scheduling of task trees with limited memory. *ACM Transactions on Parallel Computing (TOPC)*,

2(2):13:1–13:??, July 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Eikel:2015:IRI

[ES15] Martina Eikel and Christian Scheideler. IRIS: a robust information system against insider DoS attacks. *ACM Transactions on Parallel Computing (TOPC)*, 2(3):18:1–18:??, October 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Feldkord:2019:MSP

[FH19] Björn Feldkord and Friedhelm Meyer Auf Der Heide. The mobile server problem. *ACM Transactions on Parallel Computing (TOPC)*, 6(3):14:1–14:??, October 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3364204`.

Feldman:2015:HCG

[FLEN15] Moran Feldman, Liane Lewin-Eytan, and Joseph (Seffi) Naor. Hedonic clustering games. *ACM Transactions on Parallel Computing (TOPC)*, 2(1):4:1–4:??, May 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Fraigniaud:2019:DDC

[FO19] Pierre Fraigniaud and Dennis Olivetti. Distributed detection of cycles. *ACM Transactions on Parallel Computing (TOPC)*, 6(3):12:1–12:??, October 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3322811`.

Grutzmacher:2020:APC

[GCF+20] Thomas Grützmacher, Terry Cojean, Goran Flegar, Hartwig Anzt, and Enrique S. Quintana-Ortí. Acceleration of PageRank with customized precision based on mantissa segmentation. *ACM Transactions on Parallel Computing (TOPC)*, 7(1): 4:1–4:19, April 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3380934`.

Golan-Gueta:2017:ASA

[GGRSY17] Guy Golan-Gueta, G. Ramalingam, Mooly Sagiv, and Eran Yahav. Automatic scalable atomicity via semantic locking. *ACM Transactions on Parallel Computing (TOPC)*, 3(4):21:1–21:??, March 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Gibbons:2014:ATP

[Gib14] Phillip B. Gibbons. ACM Transactions on Parallel Computing: an introduction. *ACM Transactions on Parallel Computing (TOPC)*, 1(1):1:1–1:??, September 2014. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Gilbert:2018:ISI

[Gil18] Seth Gilbert. Introduction to the special issue for SPAA 2016.

ACM Transactions on Parallel Computing (TOPC), 5(1):1:1–1:??, September 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Guha:2019:DPC

[GLZ19] Sudipto Guha, Yi Li, and Qin Zhang. Distributed partial clustering. *ACM Transactions on Parallel Computing (TOPC)*, 6 (3):11:1–11:??, October 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3322808`.

Gulisano:2017:EDS

[GNC+17] Vincenzo Gulisano, Yiannis Nikolakopoulos, Daniel Cederman, Marina Papatriantafilou, and Philippas Tsigas. Efficient data streaming multiway aggregation through concurrent algorithmic designs and new abstract data types. *ACM Transactions on Parallel Computing (TOPC)*, 4(2):11:1–11:??, October 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Grove:2017:ISS

[Gro17] David Grove. Introduction to the special section on PPoPP'15. *ACM Transactions on Parallel Computing (TOPC)*, 3(4):19:1–19:??, March 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Gao:2016:AOM

[GWWL16] Jiaquan Gao, Yu Wang, Jun Wang, and Ronghua Liang. Adaptive optimization modeling of preconditioned conjugate gradient on multi-GPUs. *ACM Transactions on Parallel Computing (TOPC)*, 3(3):16:1–16:??, December 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Gilbert:2015:SBO

[GZ15] Seth Gilbert and Chaodong Zheng. SybilCast: Broadcast on the open airwaves. *ACM Transactions on Parallel Computing (TOPC)*, 2(3):16:1–16:??, October 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Hoefler:2015:RMA

[HDT+15] Torsten Hoefler, James Dinan, Rajeev Thakur, Brian Barrett, Pavan Balaji, William Gropp, and Keith Underwood. Remote memory access programming in MPI-3. *ACM Transactions on Parallel Computing (TOPC)*, 2 (2):9:1–9:??, July 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Herlihy:2015:GEI

[Her15] Maurice Herlihy. Guest Editor introduction. *ACM Transactions on Parallel Computing (TOPC)*, 2(1):1:1–1:??, May 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Haider:2017:LRA

[HHA17] Syed Kamran Haider, William Hasenplaugh, and Dan Alistarh. Lease/Release: Architec-

tural support for scaling contended data structures. *ACM Transactions on Parallel Computing (TOPC)*, 4(2):8:1–8:??, October 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Hadade:2020:SPU

[HJWdM20] Ioan Hadade, Timothy M. Jones, Feng Wang, and Luca di Mare. Software prefetching for unstructured mesh applications. *ACM Transactions on Parallel Computing (TOPC)*, 7(1):3:1–3:23, April 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3380932`.

Heil:2014:APH

[HKL+14] Timothy Heil, Anil Krishna, Nicholas Lindberg, Farnaz Toussi, and Steven Vanderwiel. Architecture and performance of the hardware accelerators in IBM's PowerEN processor. *ACM Transactions on Parallel Computing (TOPC)*, 1(1):5:1–5:??, September 2014. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Herlihy:2016:WSF

[HL16] Maurice Herlihy and Zhiyu Liu. Well-structured futures and cache locality. *ACM Transactions on Parallel Computing (TOPC)*, 2(4):22:1–22:??, March 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Hammouda:2015:NTE

[HSS15] Adam Hammouda, Andrew R. Siegel, and Stephen F. Siegel. Noise-tolerant explicit stencil computations for nonuniform process execution rates. *ACM Transactions on Parallel Computing (TOPC)*, 2(1):7:1–7:??, May 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Hamilton:2020:ASC

[HSY+20] Kathleen E. Hamilton, Catherine D. Schuman, Steven R. Young, Ryan S. Bennink, Neena Imam, and Travis S. Humble. Accelerating scientific computing in the post-Moore's era. *ACM Transactions on Parallel Computing (TOPC)*, 7(1):6:1–6:31, April 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3380940`.

Im:2016:CST

[IMPT16] Sungjin Im, Benjamin Moseley, Kirk Pruhs, and Eric Torng. Competitively scheduling tasks with intermediate parallelizability. *ACM Transactions on Parallel Computing (TOPC)*, 3(1):4:1–4:??, August 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Izraelevitz:2017:GSN

[IS17] Joseph Izraelevitz and Michael L. Scott. Generality and speed in nonblocking dual containers.

ACM Transactions on Parallel Computing (TOPC), 3(4):22:1–22:??, March 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Jimenez:2014:APP

[JCG+14] Víctor Jiménez, Francisco J. Cazorla, Roberto Gioiosa, Alper Buyuktosunoglu, Pradip Bose, Francis P. O'Connell, and Bruce G. Mealey. Adaptive prefetching on POWER7: Improving performance and power consumption. *ACM Transactions on Parallel Computing (TOPC)*, 1(1):4:1–4:??, September 2014. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Jain:2015:NOS

[JMNY15] Navendu Jain, Ishai Menache, Joseph (Seffi) Naor, and Jonathan Yaniv. Near-optimal scheduling mechanisms for deadline-sensitive jobs in large computing clusters. *ACM Transactions on Parallel Computing (TOPC)*, 2(1):3:1–3:??, May 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Jiang:2016:PPA

[JMT16] Jiayang Jiang, Michael Mitzenmacher, and Justin Thaler. Parallel peeling algorithms. *ACM Transactions on Parallel Computing (TOPC)*, 3(1):7:1–7:??, August 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Jahn:2015:RRA

[JPK+15] Janmartin Jahn, Santiago Pagani, Sebastian Kobbe, Jian-Jia Chen, and Jörg Henkel. Runtime resource allocation for software pipelines. *ACM Transactions on Parallel Computing (TOPC)*, 2 (1):5:1–5:??, May 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Kagaris:2019:SME

[KD19] Dimitri Kagaris and Sourav Dutta. Scheduling mutual exclusion accesses in equal-length jobs. *ACM Transactions on Parallel Computing (TOPC)*, 6(2): 8:1–8:??, September 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3342562`.

Kramer:2015:SET

[KH15] Stephan C. Kramer and Johannes Hagemann. SciPAL: Expression templates and composition closure objects for high performance computational physics with CUDA and OpenMP. *ACM Transactions on Parallel Computing (TOPC)*, 1(2):15:1–15:??, January 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Khan:2019:NOP

[Kha19] Shahbaz Khan. Near optimal parallel algorithms for dynamic DFS in undirected graphs. *ACM Transactions on Parallel Computing (TOPC)*, 6(3):18:1–

18:??, October 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3364212`.

Kaler:2016:EDD

[KHSL16] Tim Kaler, William Hasenplaugh, Tao B. Schardl, and Charles E. Leiserson. Executing dynamic data-graph computations deterministically using chromatic scheduling. *ACM Transactions on Parallel Computing (TOPC)*, 3(1):2:1–2:??, August 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Kronbichler:2019:MMF

[KL19] Martin Kronbichler and Karl Ljungkvist. Multigrid for matrix-free high-order finite element computations on graphics processors. *ACM Transactions on Parallel Computing (TOPC)*, 6(1):2:1–2:??, June 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3322813`.

Kumar:2015:FGA

[KMVV15] Ravi Kumar, Benjamin Moseley, Sergei Vassilvitskii, and Andrea Vattani. Fast greedy algorithms in MapReduce and streaming. *ACM Transactions on Parallel Computing (TOPC)*, 2(3):14:1–14:??, October 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Kalikar:2017:DNM

[KN17] Saurabh Kalikar and Rupesh Nasre. DomLock: a new multi-granularity locking technique for hierarchies. *ACM Transactions on Parallel Computing (TOPC)*, 4(2):7:1–7:??, October 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Kling:2015:PSM

[KP15] Peter Kling and Peter Pietrzyk. Profitable scheduling on multiple speed-scalable processors. *ACM Transactions on Parallel Computing (TOPC)*, 2(3):19:1–19:??, October 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Korupolu:2018:RPF

[KR18] Madhukar Korupolu and Rajmohan Rajaraman. Robust and probabilistic failure-aware placement. *ACM Transactions on Parallel Computing (TOPC)*, 5(1):5:1–5:??, September 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Kestor:2015:TPD

[KUCT15] Gokcen Kestor, Osman S. Unsal, Adrian Cristal, and Serdar Tasiran. TRADE: Precise dynamic race detection for scalable transactional memory systems. *ACM Transactions on Parallel Computing (TOPC)*, 2(2):11:1–11:??, July 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Koutis:2016:SPD

[KX16] Ioannis Koutis and Shen Chen Xu. Simple parallel and distributed algorithms for spectral graph sparsification. *ACM Transactions on Parallel Computing (TOPC)*, 3(2):14:1–14:??, August 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Larus:2016:ISI

[LDML16] James Larus, Sandhya Dwarkadas, José Moreira, and Andrew Lumsdaine. Introduction to the special issue on PPoPP'14. *ACM Transactions on Parallel Computing (TOPC)*, 2(4):21:1–21:??, March 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Lilja:2014:I

[Lil14] David J. Lilja. Introduction. *ACM Transactions on Parallel Computing (TOPC)*, 1(1):2:1–2:??, September 2014. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Lakhotia:2020:GSC

[LKPP20] Kartik Lakhotia, Rajgopal Kannan, Sourav Pati, and Viktor Prasanna. GPOP: a scalable cache- and memory-efficient framework for graph processing over parts. *ACM Transactions on Parallel Computing (TOPC)*, 7(1):7:1–7:24, April 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3380942`.

Lee:2015:FPP

[LLS+15] I-Ting Angelina Lee, Charles E. Leiserson, Tao B. Schardl, Zhunping Zhang, and Jim Sukha. On-the-fly pipeline parallelism. *ACM Transactions on Parallel Computing (TOPC)*, 2(3):17:1–17:??, October 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Liu:2018:RAN

[LPY18] Mingmou Liu, Xiaoyin Pan, and Yitong Yin. Randomized approximate nearest neighbor search with limited adaptivity. *ACM Transactions on Parallel Computing (TOPC)*, 5(1):3:1–3:??, September 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Lee:2018:ERD

[LS18] I-Ting Angelina Lee and Tao B. Schardl. Efficient race detection for reducer hyperobjects. *ACM Transactions on Parallel Computing (TOPC)*, 4(4):20:1–20:??, September 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Ltaief:2019:MPP

[LSE+19] Hatem Ltaief, Dalal Sukkari, Aniello Esposito, Yuji Nakatsukasa, and David Keyes. Massively parallel polar decomposition on distributed-memory systems. *ACM Transactions on Parallel Computing (TOPC)*, 6

(1):4:1–4:??, June 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3328723`.

Liu:2018:APR

[LTL+18] Junhong Liu, Guangming Tan, Yulong Luo, Jiajia Li, Zeyao Mo, and Ninghui Sun. An autotuning protocol to rapidly build autotuners. *ACM Transactions on Parallel Computing (TOPC)*, 5 (2):9:1–9:??, January 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Muller:2018:NHP

[MA18] Michel Müller and Takayuki Aoki. New high performance GPGPU code transformation framework applied to large production weather prediction code. *ACM Transactions on Parallel Computing (TOPC)*, 5(2):7:1–7:??, January 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Majo:2017:LPC

[MG17] Zoltan Majo and Thomas R. Gross. A library for portable and composable data locality optimizations for NUMA systems. *ACM Transactions on Parallel Computing (TOPC)*, 3(4):20:1–20:??, March 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Merrill:2015:HPS

[MGG15] Duane Merrill, Michael Garland, and Andrew Grimshaw. High-performance and scalable GPU graph traversal. *ACM Transactions on Parallel Computing (TOPC)*, 1(2):14:1–14:??, January 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Malas:2018:MIP

[MHLK18] Tareq M. Malas, Georg Hager, Hatem Ltaief, and David E. Keyes. Multidimensional intratile parallelization for memory-starved stencil computations. *ACM Transactions on Parallel Computing (TOPC)*, 4(3):12:1–12:??, April 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Monemi:2020:EDW

[MKPSA20] Alireza Monemi, Farshad Khunjush, Maurizio Palesi, and Hamid Sarbazi-Azad. An enhanced dynamic weighted incremental technique for QoS support in NoC. *ACM Transactions on Parallel Computing (TOPC)*, 7(2):9:1–9:31, May 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3391442`.

Maldonado:2015:STB

[MMF+15] Walther Maldonado, Patrick Marlier, Pascal Felber, Julia Lawall, Gilles Muller, and Etienne Rivière. Supporting time-based QoS requirements in software transactional memory. *ACM Transactions on Parallel*

Computing (TOPC), 2(2):10:1–10:??, July 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Maleki:2016:LRM

[MMM16] Saeed Maleki, Madanlal Musuvathi, and Todd Mytkowicz. Low-rank methods for parallelizing dynamic programming algorithms. *ACM Transactions on Parallel Computing (TOPC)*, 2 (4):26:1–26:??, March 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

McCreesh:2015:SST

[MP15] Ciaran McCreesh and Patrick Prosser. The shape of the search tree for the maximum clique problem and the implications for parallel branch and bound. *ACM Transactions on Parallel Computing (TOPC)*, 2 (1):8:1–8:??, May 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Mitzenmacher:2018:BBC

[MRR18] Michael Mitzenmacher, Rajmohan Rajaraman, and Scott Roche. Better bounds for coalescing-branching random walks. *ACM Transactions on Parallel Computing (TOPC)*, 5 (1):2:1–2:??, September 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Mirhosseini:2018:BBA

[MSA+18] Amirhossein Mirhosseini, Mohammad Sadrosadati, Fatemeh Aghamohammadi, Mehdi Modarressi, and Hamid Sarbazi-Azad. BARAN: Bimodal adaptive reconfigurable-allocator network-on-chip. *ACM Transactions on Parallel Computing (TOPC)*, 5 (3):11:1–11:??, January 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Maier:2019:CHT

[MSD19] Tobias Maier, Peter Sanders, and Roman Dementiev. Concurrent hash tables: Fast and general(?)! *ACM Transactions on Parallel Computing (TOPC)*, 5 (4):16:1–16:??, March 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3309206`.

MeyeraufderHeide:2016:ISI

[MSS16] Friedhelm Meyer auf der Heide, Peter Sanders, and Nodari Sitchinava. Introduction to the special issue on SPAA 2014. *ACM Transactions on Parallel Computing (TOPC)*, 3(1):1:1–1:??, August 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Mollah:2019:MUG

[MWF+19] Md Atiqul Mollah, Wenqi Wang, Peyman Faizian, MD Shafayat Rahman, Xin Yuan, Scott Pakin, and Michael Lang. Modeling universal globally adaptive load-balanced routing. *ACM Transactions on Parallel Computing (TOPC)*, 6(2):9:1–9:??, September 2019. CODEN ???? ISSN 2329-4949 (print), 2329-

4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3349620`.

Natarajan:2020:FLL

[NRM20] Aravind Natarajan, Arunmoezhi Ramachandran, and Neeraj Mittal. FEAST: a lightweight lock-free concurrent binary search tree. *ACM Transactions on Parallel Computing (TOPC)*, 7(2): 10:1–10:64, May 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3391438`.

Pingali:2015:ISI

[PRS15] Keshav Pingali, J. Ramanujam, and P. Sadayappan. Introduction to the special issue on PPoPP'12. *ACM Transactions on Parallel Computing (TOPC)*, 1(2):9:1–9:??, January 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Petrovic:2016:LHM

[PRS16] Darko Petrović, Thomas Ropars, and André Schiper. Leveraging hardware message passing for efficient thread synchronization. *ACM Transactions on Parallel Computing (TOPC)*, 2(4):24:1–24:??, March 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Pandurangan:2018:FDA

[PRS18] Gopal Pandurangan, Peter Robinson, and Michele Scquizzato. Fast distributed algorithms for connectivity and MST in large graphs. *ACM Transactions on Parallel Computing (TOPC)*, 5(1):4:1–4:??, September 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Pumma:2019:SDL

[PSFB19] Sarunya Pumma, Min Si, Wu-Chun Feng, and Pavan Balaji. Scalable deep learning via I/O analysis and optimization. *ACM Transactions on Parallel Computing (TOPC)*, 6(2): 6:1–6:??, September 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3331526`.

Rane:2014:EPO

[RB14] Ashay Rane and James Browne. Enhancing performance optimization of multicore/multichip nodes with data structure metrics. *ACM Transactions on Parallel Computing (TOPC)*, 1(1): 3:1–3:??, September 2014. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Ren:2019:ESP

[RBJ+19] Bin Ren, Shruthi Balakrishna, Youngjoon Jo, Sriram Krishnamoorthy, Kunal Agrawal, and Milind Kulkarni. Extracting SIMD parallelism from recursive task-parallel programs. *ACM Transactions on Parallel Computing (TOPC)*, 6(4):24:1–24:??, December 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Ravishankar:2014:APC

[REP+14] Mahesh Ravishankar, John Eisenlohr, Louis-Noël Pouchet, J. Ramanujam, Atanas Rountev, and P. Sadayappan. Automatic parallelization of a class of irregular loops for distributed memory systems. *ACM Transactions on Parallel Computing (TOPC)*, 1(1):7:1–7:??, September 2014. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Rauchwerger:2019:ISI

[RLSLS19] Lawrence Rauchwerger, Jaejin Lee, Armando Solar-Lezama, and Guy Steele. Introduction to the special issue on PPoPP 2017 (part 1). *ACM Transactions on Parallel Computing (TOPC)*, 6 (4):19:1–19:??, December 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Sheikh:2016:SHJ

[SA16] Hafiz Fahad Sheikh and Ishfaq Ahmad. Sixteen heuristics for joint optimization of performance, energy, and temperature in allocating tasks to multicores. *ACM Transactions on Parallel Computing (TOPC)*, 3 (2):9:1–9:??, August 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Shun:2014:SPC

[SB14] Julian Shun and Guy E. Blelloch. A simple parallel Cartesian tree algorithm and its application to parallel suffix tree construction. *ACM Transactions on Parallel Computing (TOPC)*, 1(1):8:1–8:??, September 2014. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Simhadri:2016:EAS

[SBF+16] Harsha Vardhan Simhadri, Guy E. Blelloch, Jeremy T. Fineman, Phillip B. Gibbons, and Aapo Kyrola. Experimental analysis of space-bounded schedulers. *ACM Transactions on Parallel Computing (TOPC)*, 3 (1):8:1–8:??, August 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Sack:2015:CAM

[SG15] Paul Sack and William Gropp. Collective algorithms for multiported torus networks. *ACM Transactions on Parallel Computing (TOPC)*, 1(2):12:1–12:??, January 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Sahin:2018:CSC

[SG18] Semih Sahin and Bugra Gedik. C-Stream: a co-routine-based elastic stream processing engine. *ACM Transactions on Parallel Computing (TOPC)*, 4(3):15:1–15:??, April 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Salah:2020:TSE

[SLL+20] Ahmad Salah, Kenli Li, Qing Liao, Mervat Hashem, Zhiyong Li, Anthony T. Chronopoulos, and Albert Y. Zomaya. A time-space efficient algorithm for

parallel k-way in-place merging based on sequence partitioning and perfect shuffle. *ACM Transactions on Parallel Computing (TOPC)*, 7(2):11:1–11:23, May 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3391443`.

Schardl:2019:TER

[SML19] Tao B. Schardl, William S. Moses, and Charles E. Leiserson. Tapir: Embedding recursive fork-join parallelism into LLVM's intermediate representation. *ACM Transactions on Parallel Computing (TOPC)*, 6 (4):19:1–19:??, December 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3365655`.

Sandes:2016:MMA

[SMM+16] Edans F. De O. Sandes, Guillermo Miranda, Xavier Martorell, Eduard Ayguade, George Teodoro, and Alba C. M. A. De Melo. MASA: a multiplatform architecture for sequence aligners with block pruning. *ACM Transactions on Parallel Computing (TOPC)*, 2(4):28:1–28:??, March 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Saha:2019:OSA

[SS19] Dibakar Saha and Koushik Sinha. Optimal schedule for all-to-all personalized communication in multiprocessor systems. *ACM Transactions on Parallel Computing (TOPC)*, 6(1):5:1–5:??, June 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3329867`.

Sanders:2015:WEM

[SSS15] Peter Sanders, Jochen Speck, and Raoul Steffen. Work-efficient matrix inversion in polylogarithmic time. *ACM Transactions on Parallel Computing (TOPC)*, 2(3):15:1–15:??, October 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Steele:2017:AAC

[ST17] Guy L. Steele Jr. and Jean-Baptiste Tristan. Adding approximate counters. *ACM Transactions on Parallel Computing (TOPC)*, 4(1):5:1–5:??, October 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Steele:2019:UBP

[ST19] Guy L. Steele Jr. and Jean-Baptiste Tristan. Using butterfly-patterned partial sums to draw from discrete distributions. *ACM Transactions on Parallel Computing (TOPC)*, 6(4):22:1–22:??, November 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Sun:2019:DGC

[SZ19] He Sun and Luca Zanetti. Distributed graph clustering and

sparsification. *ACM Transactions on Parallel Computing (TOPC)*, 6(3):17:1–17:??, October 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3364208`.

Thomson:2016:CTU

[TDB16] Paul Thomson, Alastair F. Donaldson, and Adam Betts. Concurrency testing using controlled schedulers: an empirical study. *ACM Transactions on Parallel Computing (TOPC)*, 2(4):23:1–23:??, March 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Tardieu:2016:XAP

[THC+16] Olivier Tardieu, Benjamin Herta, David Cunningham, David Grove, Prabhanjan Kambadur, Vijay Saraswat, Avraham Shinnar, Mikio Takeuchi, Mandana Vaziri, and Wei Zhang. X10 and APGAS at petascale. *ACM Transactions on Parallel Computing (TOPC)*, 2(4):25:1–25:??, March 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Totoni:2015:PME

[TJK15] Ehsan Totoni, Nikhil Jain, and Laxmikant V. Kale. Power management of extreme-scale networks with on/off links in runtime systems. *ACM Transactions on Parallel Computing (TOPC)*, 1(2):16:1–16:??, January 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Tumeo:2020:ITS

[TPFH20] Antonino Tumeo, Fabrizio Petrini, John Feo, and Mahantesh Halappanavar. Introduction to the TOPC special issue on innovations in systems for irregular applications,Part 1. *ACM Transactions on Parallel Computing (TOPC)*, 7(1):1:1–1:2, April 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3383318`.

Utterback:2019:POR

[UALK19] Robert Utterback, Kunal Agrawal, I-Ting Angelina Lee, and Milind Kulkarni. Processor-oblivious record and replay. *ACM Transactions on Parallel Computing (TOPC)*, 6(4):20:1–20:??, December 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL `https://dl.acm.org/ft_gateway.cfm?id=3365659`.

Vandierendonck:2019:HDI

[VN19] Hans Vandierendonck and Dimitrios S. Nikolopoulos. Hyperqueues: Design and implementation of deterministic concurrent queues. *ACM Transactions on Parallel Computing (TOPC)*, 6 (4):23:1–23:??, November 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Wu:2014:MAG

[WMP14] Xing Wu, Frank Mueller, and Scott Pakin. A methodology for automatic generation of executable communication specifications from parallel MPI applications. *ACM Transactions on Parallel Computing (TOPC)*, 1(1):6:1–6:??, September 2014. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Wang:2017:GGG

[WPD+17] Yangzihao Wang, Yuechao Pan, Andrew Davidson, Yuduo Wu, Carl Yang, Leyuan Wang, Muhammad Osama, Chenshan Yuan, Weitang Liu, Andy T. Riffel, and John D. Owens. Gunrock: GPU graph analytics. *ACM Transactions on Parallel Computing (TOPC)*, 4(1):3:1–3:??, October 2017. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Xu:2015:SVC

[XZZY15] Yi Xu, Bo Zhao, Youtao Zhang, and Jun Yang. Simple virtual channel allocation for high-throughput and high-frequency on-chip routers. *ACM Transactions on Parallel Computing (TOPC)*, 2(1):6:1–6:??, May 2015. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Yuan:2016:FCN

[YNM16] Xin Yuan, Wickus Nienaber, and Santosh Mahapatra. On folded-Clos networks with deterministic single-path routing. *ACM Transactions on Parallel Computing (TOPC)*, 2(4):27:1–27:??, March 2016. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Yeh:2019:PGR

[YSS+19] Tsung Tai Yeh, Amit Sabne, Putt Sakdhnagool, Rudolf Eigenmann, and Timothy G. Rogers. Pagoda: a GPU runtime system for narrow tasks. *ACM Transactions on Parallel Computing (TOPC)*, 6(4):21:1–21:??, November 2019. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).

Zhang:2018:LFT

[ZLLD18] Deli Zhang, Pierre Laborde, Lance Lebanoff, and Damian Dechev. Lock-free transactional transformation for linked data structures. *ACM Transactions on Parallel Computing (TOPC)*, 5(1):6:1–6:??, September 2018. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic).