A Complete Bibliography of Publications in *IEEE Transactions on Parallel and Distributed Systems*: 2020–2029

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

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

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[NISJS21] R. Nobre, A. Ilic, S. Santander-Jiménez, and L. Sousa. Retargeting tensor accelerators for epistasis detection. *IEEE Transactions on Parallel and Distributed Systems*, 32(9): 2160–2174, September 2021. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[NK21] M. S. Q. Z. Nine and T. Kosar. A two-phase dynamic throughput optimization model for big data transfers. *IEEE Transactions on Parallel and Distributed Systems*, 32(2):269–280, February 2021. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[NKP+24] Javier Navaridas, Markos Kynigos, Jose A. Pascual, Mikel Luján, Jose Miguel-Alonso, and John Goodacre. Understanding the impact of arbitration in MZI-based Beneš switching fabrics. *IEEE Transactions on Parallel and Distributed Systems*, 35(2):338–348, February 2024. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[OMD+21] Y. Oyama, N. Maruyama, N. Dryden, E. McCarthy, P. Harrington, J. Balewski, S. Matsuoka, P. Nugent, and B. Van Essen. The case for strong scaling in deep learning: Training large 3D CNNs with hybrid parallelism. *IEEE Transactions on Parallel and Distributed Systems*, 32(7): 1641–1652, July 2021. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[ONP+23] Patrik Omland, Alessio Netti, Yang Peng, Andrea Baldovin, Michael Paulitsch, Gustavo Espinosa, Jorge Parra, Gereon Hinz, and Alois Knoll. HPC hardware design reliability benchmarking with `HDFIT`. *IEEE Transactions on Parallel and Distributed Systems*, 34 (3):995–1006, March 2023. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[OSF22] Murugaraj Odiathevar, Winston K. G. Seah, and Marcus Frean. A Bayesian approach to distributed anomaly detection in edge AI networks. *IEEE Transactions on Parallel and Distributed Systems*, 33(12):3306–3320, December 2022. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[OZCW22] Kwangsung Oh, Minmin Zhang, Abhishek Chandra, and Jon

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[Par21a] M. Parashar. Editor's note. *IEEE Transactions on Parallel and Distributed Systems*, 32 (4):743–745, April 2021. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[PBC+21] Y. Peng, Y. Bao, Y. Chen, C. Wu, C. Meng, and W. Lin. DL2: a deep learning-driven scheduler for deep learning clusters. *IEEE Transactions on Parallel and Distributed Systems*, 32(8):1947–1960, August 2021. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[PK21] T. Pozzetti and A. D. Kshemkalyani. Resettable encoded vector clock for causality analysis with an application to dynamic race detection. *IEEE Transactions on Parallel and Distributed Systems*, 32(4):772–785, April 2021. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[PKJ+22] Nicole Prindle, Ali Kazmi, Aman Jain, Albert Chen, Marissa Sorkin, Sudhanshu Agarwal, Richard Vuduc, and Vijay Thakkar. Critique of MemXCT: Memory-centric X-ray CT reconstruction with massive parallelization by SCC Team from Georgia Tech. *IEEE Transactions on Parallel and Distributed Systems*, 33(9):2035–2038, September 2022. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[PSS+20] L. Pons, J. Sahuquillo, V. Selfa, S. Petit, and J. Pons. Phase-aware cache partitioning to target both turnaround time and system performance. *IEEE Transactions on Parallel and Distributed Systems*, 31(11): 2556–2568, November 2020. CODEN ITDSEO. ISSN 1045-

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[PWX+23] Shuyu Pei, Jigang Wen, Kun Xie, Gaogang Xie, and Kenli Li. On-line network traffic anomaly detection based on tensor sketch. *IEEE Transactions on Parallel and Distributed Systems*, 34(12):3028–3045, December 2023. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[PWZ+21] Santosh Pandey, Zhibin Wang, Sheng Zhong, Chen Tian, Bolong Zheng, Xiaoye Li, Lingda Li, Adolfy Hoisie, Caiwen Ding, Dong Li, and Hang Liu. Trust: Triangle counting reloaded on GPUs. *IEEE Transactions on Parallel and Distributed Systems*, 32(11): 2646–2660, November 2021. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[PZL+22] Zaifeng Pan, Feng Zhang, Hourun Li, Chenyang Zhang, Xiaoyong Du, and Dong Deng. G-SLIDE: a GPU-based sublinear deep learning engine via LSH sparsification. *IEEE Transactions on Parallel and Distributed Systems*, 33(11): 3015–3027, November 2022. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[PZZ+22] Zaifeng Pan, Feng Zhang, Yanliang Zhou, Jidong Zhai, Xipeng Shen, Onur Mutlu, and Xiaoyong Du. Exploring data analytics without decompression on embedded GPU systems. *IEEE Transactions on Parallel and Distributed Systems*, 33(7):1553–1568, July 2022. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[QCZ+25] Mimi Qian, Lin Cui, Xiaoquan Zhang, Fung Po Tso, Yuhui Deng, Zhetao Li, and Weijia Jia. DisPLOY: Target-constrained distributed deployment for network measurement tasks on data plane. *IEEE Transactions on Parallel and Distributed Systems*, 36(8): 1608–1619, August 2025. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[QJC+24] Sheng Qi, Chao Jin, Mosharaf Chowdhury, Zhenming Liu, Xuanzhe Liu, and Xin Jin. Pyxis: Scheduling mixed tasks in disaggregated datacenters. *IEEE Transactions on Parallel and Distributed Systems*, 35(9): 1536–1550, September 2024. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[QJZF23] Yudi Qiu, Jie Jiao, Xiaoyang Zeng, and Yibo Fan. Tag-sharer-fusion directory: a scalable coherence directory with flexible entry formats. *IEEE Transactions on Parallel and Distributed Systems*, 34(1):262–274, January 2023. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[QLP+23] Peng Qu, Hui Lin, Meng Pang, Xiaofei Liu, Weimin Zheng, and Youhui Zhang. ENLARGE: an efficient SNN simulation framework on GPU clusters. *IEEE Transactions on Parallel and Distributed Systems*, 34(9): 2529–2540, September 2023. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[QLY+25] Yudi Qiu, Lingfei Lu, Shiyan Yi, Minge Jing, Xiaoyang Zeng, Yang Kong, and Yibo Fan. Flips: a flexible partitioning strategy near memory processing architecture for recommendation system. *IEEE Transactions on Parallel and Distributed Systems*, 36(4):745–758, April 2025. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

Qian:2024:EBP

[QQD+24] Junyan Qian, Kunzhu Qiu, Hao Ding, Huimin Zhang, and Zhongyi Zhai. An efficient bottleneck planes exclusion method for reconfiguring 3D VLSI arrays. *IEEE Transactions on Parallel and Distributed Systems*, 35(2):250–263, February 2024. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[QTR21] M. H. Quraishi, E. B. Tavakoli, and F. Ren. A survey of system architectures and techniques for FPGA virtualization. *IEEE Transactions on Parallel and Distributed Systems*, 32(9): 2216–2230, September 2021. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[QWY+25] Lin Qiu, Xingwei Wang, Bo Yi, Kaimin Zhang, Fei Gao, Min Huang, and Yanpeng Qu. Towards efficiency and decentralization: a blockchain assisted distributed fuzzy-rough feature selection. *IEEE Transactions on Parallel and Distributed Systems*, 36(8):1762–1778, August 2025. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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Qiu:2020:FKF

[QXL+20] Y. Qiu, J. Xie, H. Lv, W. Yin, W. Luk, L. Wang, B. Yu, H. Chen, X. Ge, Z. Liao, and X. Shi. FULL–KV: Flexible and ultra-low-latency in-memory key–value store system design on CPU-FPGA. *IEEE Transactions on Parallel and Distributed Systems*, 31(8): 1828–1444, August 2020. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[QXL+24] Jiaxing Qi, Wencong Xiao, Mingzhen Li, Chaojie Yang, Yong Li, Wei Lin, Hailong Yang, Zhongzhi Luan, and Depei Qian. ElasticBatch: a learning-augmented elastic scheduling system for batch inference on MIG. *IEEE Transactions on Parallel and Distributed Systems*, 35(10):1708–1720, October 2024. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[QZCZ21] X. Qiu, W. Zhang, W. Chen, and Z. Zheng. Distributed and collective deep reinforcement learning for computation offloading: a practical perspective. *IEEE Transactions on Parallel and Distributed Systems*, 32(5):1085–1101, May 2021. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[RCW+23] Lanlan Rui, Shiyou Chen, Shuyun Wang, Zhipeng Gao, Xuesong Qiu, Wenjing Li, and Shaoyong Guo. SFC orchestration method for edge cloud and central cloud collaboration: QoS and energy consumption joint optimization combined with reputation assessment. *IEEE Transactions on Parallel and Distributed Systems*, 34(10):2735–2748, October 2023. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[RDBG25] Sanaz Rabinia, Niloofar Didar, Marco Brocanelli, and Daniel Grosu. Algorithms for data sharing-aware task allocation in edge computing systems. *IEEE Transactions on Parallel and Distributed Systems*, 36(1):15–28, January 2025. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[RLSK25] Junhee Ryu, Dongeun Lee, Kang G. Shin, and Kyungtae Kang. Paralfetch: Fast application launch on personal computing/communication devices. *IEEE Transactions on Parallel and Distributed Systems*, 36 (4):616–632, April 2025. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[RP20] V. Y. Raparti and S. Pasricha. Approximate NoC and memory controller architectures for GPGPU accelerators. *IEEE Transactions on Parallel and Distributed Systems*, 31(5):25–39, May 2020. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[RSL+25] Omer Rana, Josef Spillner, Stephen Leak, Gerald F. Lofstead II, and Rafael Tolosana Calasanz. Guest editorial:special section on SC22 Student Cluster Competition. *IEEE Transactions on Parallel and Distributed Systems*, 36(5): 803, May 2025. CODEN ITD-

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[SA25] Neha Singh and Mainak Adhikari. FedTune-SGM: a Stackelberg-driven personalized federated learning strategy for edge networks. *IEEE Transactions on Parallel and Distributed Systems*, 36(4):791–802, April 2025. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[SBK+25] William Andrew Simon, Irem Boybat, Riselda Kodra, Elena Ferro, Gagandeep Singh, Mohammed Alser, Shubham Jain, Hsinyu Tsai, Geoffrey W. Burr, Onur Mutlu, and Abu Sebastian. CiMBA: Accelerating genome sequencing through on-device basecalling via compute-in-memory. *IEEE Transactions on Parallel and Distributed Systems*, 36(6):1130–1145, June 2025. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[SBM24] Ajay Singh, Trevor Alexander Brown, and Ali José Mashtizadeh. Simple, fast and widely applicable concurrent memory reclamation via neutralization. *IEEE Transactions on Parallel and Distributed Systems*, 35(2):203–220, February 2024. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[SCA23] Ankit Srivastava, Sriram P. Chockalingam, and Srinivas Aluru. A parallel framework for constraint-based Bayesian network learning via Markov blanket discovery. *IEEE Transactions on Parallel and Distributed Systems*, 34(6):1699–1715, June 2023. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic). See critiques [LCZ+23, SGH+23, CRZ+23, GGL+23].

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[SCL21a] S. Shi, X. Chu, and B. Li. MG-WFBP: Merging gradients wisely for efficient communication in distributed deep learning. *IEEE Transactions on Parallel and Distributed Systems*, 32(8):1903–1917, August 2021. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[SCL+21b] Wei-Fang Sun, Hung-Hsin Chen, Shao-Fu Lin, Yuan-Ching Lin, Jing-Wei Wu, En-Te Lin, and Jerry Chou. Critique of planetary normal mode computation: Parallel algorithms, performance, and reproducibility by SCC Team From National Tsing Hua University. *IEEE Transactions on Parallel and Distributed Systems*, 32(11):2623–2626, November 2021. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic). See [SLX+21b].

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[SCS+23] Hui Sun, Yiru Chen, Kewei Sha, Shaoyuan Huang, Xiaofei Wang, and Weisong Shi. A proactive on-demand content placement strategy in edge intelligent gateways. *IEEE Transactions on Parallel and Distributed Systems*, 34(7):2072–2090, July 2023. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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[SCYJ21] Y. Sahni, J. Cao, L. Yang, and Y. Ji. Multi-hop multi-task partial computation offloading in collaborative edge computing. *IEEE Transactions on Parallel and Distributed Systems*, 32 (5):1133–1145, May 2021. CODEN ITDSEO. ISSN 1045-9219 (print), 1558-2183 (electronic).

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