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/

21 September 2021  
Version 1.23

Title word cross-reference

3 [MK21]. k [SLL+20].  
-way [SLL+20].

1 [FBG21b, TPFH20a].  

3 [HDT+15].  
Abort [DR15]. Abortable [CAL20].  
Abortable-locking [CAL20]. Abstract [GNC+17]. Accelerating [HSY+20].  
Acceleration [GCF+20]. Accelerators [HKL+14]. Access [AG18, AKMW18, BDE+21, HDT+15].  
Accesses [KD19]. Accuracy [BHB+15, SSSB20]. ACM [Gib14].  
Adapting [WSJ21]. Adaptive [GWWL16, JCG+14, MSA+18, MWF+19].  
Adaptivity [LPY18]. Adding [ST17].  
Addressing [DAC+16]. Affine [BCFC+21, DMB16]. Against [ES15].  
Aggregation [GNC+17]. Airwaves [GZ15].  
Algebraic [ABB+20]. Algorithm [AB20, ADMO17, BHB+15, CDPN19, SLL+20, SSSB20, SB14]. Algorithm-Based [BHB+15]. Algorithmic [GNC+17].  
Algorithms [AG18, AKPM20, BCRS16, CGT+17, DK20, ...]
DBS21, HEY'20, JMT16, Kha19, KX16, KMVV15, MMM16, PRR18, SG15.
Aligners [SMM+16]. All-to-All [SS19].
Allocating [SA16]. Allocation [JPK+15, XZZY15]. Allocator [SA+18].
Among [CB16]. Analysis [PSFB19, SB'16]. Analytics [BBB+20, WPD'17]. APGAS [THC+16].
application [SB14]. Applications [AGL19, BBPS19, BSSP20, BGA+16,
CDG17, FF20, HJWDM20, IWWC20, TPFH20a, TPFH20b, WMP14].
Applied [MA18]. Approach [KS21]. Approximate [LPY18, ST17].
Architectural [HHA17].
Architecture [HKL'14, SMM'16].
Assessing [BCRS16]. Asynchronous [BSB'20]. Atomicity [GGRSY17].
Attachment [AKPM20]. Attacks [ES15].
Autogen [CGT'17]. Automated [FF20].
Automatic [ALMS18, CGT'17, GGRSY17, REP'14, WMP14].
Autotuners [LTL+18].
Autotuning [BBPS19, LTL+18]. Avoiding [BDK15]. Aware [KR18].
Balanced [MWF'19]. Balancing
[CDPN19, ACYC'20]. Band [BDK15].
BARAN [MSA+18]. Based
[BGLP16, BHB'15, GCF'20, MMF'15,
SG18, SSL'20]. Be [DBS21]. Better
[MRR18]. Bimodal [MSA+18]. Bin [AV19].
Binary [NRM20]. Block [SMM'16].
Bound [BSS18, MP15]. Bounded
[AAB21, SB'16]. Bounds
[AV19, CRR19, MRR18]. Branch [MP15].
Branching [CRR19, DPRR15, MRR18].
Broadcast [EGMP21, GZ15]. BSP [BS18].
Bug [FF20]. Build [LTL+18]. Butterfly
[ST19]. Butterfly-patterned [ST19].

C [SG18]. C-Stream [SG18]. Cache
[HL16, LKPP20]. Cache- [LKPP20]. Can
[DBS21]. Cartesian [SB14]. Causes
[BGA+16]. CDC1 [EV21]. Centers
[Alb19]. Channel [XZZY15]. Checking

[RHR+21]. Chick [HEY'20]. Chief
[Bad19]. Chip [MSA+18, XZZY15].
Chromatic [KHSL16]. Clairvoyant [AV19].
class [RE'14]. Clique [DSMT20, MP15].
Clos [YNM16]. Closure [KH15].
Clustering [FLN15, GLZ19, SZ19].
Clusters [CDPN19, JMN15]. Co [SG18].
Co-routine-Based [SG18]. Coalescing
[CRR19, DPRR15, MRR18].
Coalescing-Branching
[CRR19, DPRR15, MRR18]. Coarrays
[NLE'20]. Code [MA18]. Cohort
[DMS15]. Collective [SG15]. Coloring
[ABB'20]. Combining [JXA20].

Communication
[BDK15, BSS18, CDPN19, SS19, WMP14].
Compact [SSB20]. Competitive
[DKKM15]. Competitively [IMPT16].
Compiling [DMB16]. Complexity
[PRS21]. Composable [MG17].
Composition [KH15]. Compressible
[MK21]. Computation
[BDE'21, CSC'18, MK21].
Computational [KH15]. Computations
[HSH15, KHSL16, KL19, MHLK18, PRR21].
Computer [AKS+20]. Computing
[BGHS16, HSY'20, JMN15, Gb14].
Concurrency [TDB16]. Concurrent
[GNC'17, MSD19, MRR20, VN19].
Conjugate [GWW16]. Connectivity
[PRS18]. Conquer [CGT'17].
Conservation [Alb19]. Constant
[EGMP21]. Constant-Length [EGMP21].
Constraint [RHR'21]. Constraints
[AG18]. construction [SB14].
Consumption [JCG'14]. Containers
[IS17]. Contended [HHA17]. Contention
[ALB+18, WSJ21]. Continuous [DKKM15].
Controlled [TDB16]. Cope [BCRS16].
core [AB20, JAX20]. CoREC [DSD'20].
Cores [SA16]. Correctness [CAL20].
Counters [ST17]. Cover [CRR19].
Creation [BGLP16]. CUDA [KH15].
Customized [GCF'20]. Cuts [GG21].
Cycles [FO19].

D [MK21]. Damaris [DAC+16]. Data
AG18, Alb19, DK20, DAC+16, DSD+20, Gre21, GNC+17, HHA17, KHS16, MG17, RB14, ZLLD18. Data-Graph [KHS16]. Deadline [JMNY15]. Deadline-Sensitive [JMNY15]. Decomposition [LSE+19].


EagerMap [CDPN19]. Editor


MMG15, PWS17, WPD+17.


Introduction [ALS18, BHHL17a, BHHL17b, BHL19, Ber21, DH15, FBG21b, FFB21a, Gil18, Gro17, Her15, LDML16, LRLS20, Lil14, MSS16, PWS15, RLML19, TPFH20a, TPFH20b, Gib14]. Invariant [MK21]. Invariant-domain [MK21]. Inversion [SSS15]. IRIS [ES15]. Irregular [FF20, HEY+20, LWCC20, TPFH20a, TPFH20b, REP+14]. Issue [ALS18, BHHL17a, BHHL17b, BHL19, Ber21, DH15, FBG21b, FFB21a, Gil18, LDML16, LRLS20, MSS16, PWS15, RLML19, TPFH20a, TPFH20b]. Iterations [AG18].


Kernels [ACYC+20]. Key [BBB+20]. KiWi [BBB+20].


Machines [JXA20, LMT+21]. Management [ALB+18, DAC+16, TJK15]. Mantissa [GCF+20]. Many [AB20, JXA20].
Many-core [AB20]. Many/Multi [JXA20].
Many/Multi-core [JXA20]. Map [BB20+20]. Mapping [CDPN19].
Moore [HSY+20]. MPI [ALB+18, DK20, HDT+15, WMP14].
MPI-3 [HDT+15]. MPI-Parallel [DK20].
Optimization [GWWL16, PSFB19, RB14, SA16]. Optimizations [MG17]. Optimizing [AB20, BBPS19]. Order [BOU16, KL19, MK21].

Packing [AV19]. PageRank [GCF+20]. Pagoda [YSS+19]. Parallel [ASA18, AKPM20, AKMW18, ADMO17, BDE+21, BGHS16, BGA+16, BWB+19, CYS+17, DSMT20, DK20, DBS21, EDMSV15, GG21, Gib14, JMT16, Kha19,
Parallelism [EV21, JXA20, LLS+15, RBj+19, SML19].
Parallelization [MHLK18, REP+14].
Parallelizing [MMM16].
Power [JCG17, CRF15, JPK].
Personalized [SSS15].
Physical [AKS+20].
PowerLyra [CSC+18].
PoPP [BHHL17a, BHHL17b, LSLS19].
PoPP+12 [PRS15].
PoPP+14 [LDML16].
Precise [KUCT15].
Preconditioned [GWW16].
Preemption [AAB21].
Prefetching [HJWdM20].
Preserving [MK21].
Primal [AG18].
Problem [FH19].
Process [CGT+17, DKKM15].
Processor [HKL+14].
Processor-Oblivious [UALK19].
Processors [KP15, KL19].
Product [ACYC+20].
Profitable [KP15].
QoS [MMF+15].
Quality [BDA+18].
Quality-of-Service [SLL+20].
Race [DVS18].
Random [EGMP21].
Reconfigurable [AKPM21].
Reconfigurable-Allocator [MSA+18].
Record [UALK19].
Recursive [ABB+20].
Reduction [BDK15].
Remote [BDE+21].
Relay [UALK19].
Reclaliming [MA18].
Requirements [MMF+15].
Resource [AG18].
Robot [DKKM15].
Robust [ES15].
Root [BGA+16].
Scalable [ALMS18].
Scalability [CDG17].
SLL+20, SSB+20.
DSD+20, GGRSY17, Gre21, KUCT15, KP15, LKPP20, MGG15, PSF19, RHR+21.

Scale [AKPM20, BGA+16, PRS21, TJK15, BNSPP20]. Scale-free [AKPM20]. Scaling [ASA18, HHA17]. Schedule [SS19].


Solvers [EV21]. Solving [CGT+17]. Sorting [CR17]. SPAA [Ber21, DH15, FGB21b, FGB21a, Gil18, MS16]. SPAA’15 [ALS18].

SPAA’17 [BHL19]. Space [CB16, SBF+16, SLL+20]. Space-Bounded [SBF+16]. Sparse [ASA18, ABB+20, ACYC+20, BDKS16, DK20, Gre21, KS21].

Sparsification [KKX16, SZ19]. Special [ALS18, BHHL17a, BHHL17b, BHL19, Ber21, DH15, FGB21b, FGB21a, Gil18, Gro17, LDML16, LRSLS20, MSS16, PRS15, RLSLS19, TPFH20a, TPFH20b].


Strategies [DKKM15, HEY+20]. Strategy [AGL19]. Streaming [GNC+17, KMMV15].


Time-Warp [DR15]. Tolerance [BHB+15]. Tolerant [HSS15]. TOPC [TPFH20a, TPFH20b]. Torus [SG15].


Traversal [MGG15]. Tree [MP15, NRM20, SB14]. Trees
REFERENCES

[EDMSV15, WSJ21]. Two [DVS18]. Types [GNC+17].


X10 [THC+16].

References

Alon:2021:PBP


[ACYC+20]


Aggarwal:2020:OLF


Alappat:2020:RAC


Anzt:2020:LBS


[AB20]
Ashkiani:2017:GME


Ahn:2018:ADN


Aupy:2019:SSP


Aravind:2019:GME


Arama:2019:SDP


Alam:2020:GMS


Anderson:2020:RRO

REFERENCES


REFERENCES


REFERENCES


[BHHL17a] Grey Ballard, Mary Hall, Tim Harris, and Brandon Lucia. Guest Editor introduction PPoPP 2016, special issue 2 of


[CAL20] Milind Chabbi, Abdelhalim Amer, and Xu Liu. Ef-
cient abortable-locking protocol for multi-level NUMA systems: Design and correctness. 

Creec:2016:TSS

ISSN 2329-4949 (print), 2329-4957 (electronic).

Chatzopoulos:2017:EES

ISSN 2329-4949 (print), 2329-4957 (electronic).

Cruz:2019:ETM


Chowdhury:2017:AAD

ISSN 2329-4949 (print), 2329-4957 (electronic).

Cole:2017:ROS

ISSN 2329-4949 (print), 2329-4957 (electronic).

Cooper:2019:NCT

ISSN 2329-4949 (print), 2329-4957 (electronic).
REFERENCES

URL https://dl.acm.org/ft_gateway.cfm?id=3364206.

Chen:2018:PDG


Cao:2017:HRD


Dorier:2016:DAP


Dhulipala:2021:TEP


Dinitz:2015:ISI


Davydov:2020:ADS


Degener:2015:LCS

Bastian Degener, Barbara Kempkes, Peter Kling, and Friedhelm Meyer Auf Der Heide. Linear and competitive strategies for continuous robot formation.

Dathathri:2016:CAL


Dice:2015:LCG


Dutta:2015:CBR


Diegues:2015:TWE


Duan:2020:CSR


Das:2020:SMP


Dimitrov:2018:RDT

[DVS18] Dimitar Dimitrov, Martin Vechev, and Vivek Sarkar. Race detec-

**Eyraud-Dubois:2015:PST**


**Ellen:2021:CLL**


**Eikel:2015:IRI**


**Edwards:2021:SFG**


**Fineman:2021:ISIb**


**Fineman:2021:ISIa**


**Fezzardi:2020:ABD**

Pietro Fezzardi and Fabrizio Ferrandi. Automated bug detection for high-level synthesis of multi-threaded irregular applications. *ACM Transactions on
REFERENCES


REFERENCES

ISSN 2329-4949 (print), 2329-4957 (electronic).

**Gilbert:2018:ISI**


**Guha:2019:DPC**


**Gulisano:2017:EDS**


**Green:2021:HSH**


**Grove:2017:ISS**


**Gao:2016:AOM**


**Gilbert:2015:SBO**


**Hoefler:2015:RMA**

Torsten Hoefler, James Dinan, Rajeev Thakur, Brian Barrett, Pavan Balaji, William Gropp, and Keith Underwood. Remote memory access programming in
REFERENCES


Herlihy:2015:GEI


Hein:2020:PSI


Hadade:2020:SPU


Heil:2014:APH


Herlihy:2016:WSF


Haider:2017:LRA


Hamed:2015:NTE

Adam Hammad, Andrew R. Siegel, and Stephen F. Siegel. Noise-tolerant explicit stencil computations for nonuniform process execution rates. ACM
REFERENCES

Hamilton:2020:ASC

Im:2016:CST

Izraelevitz:2017:GSN

Jimenez:2014:APP

Jain:2015:NOS

Jiang:2016:PPA

Jahn:2015:RRA
Janmartin Jahn, Santiago Pagani, Sebastian Kobbe, Jian-Jia Chen, and Jörg Henkel. Runtime

Jiang:2020:CSM


Kagaris:2019:SME


Kramer:2015:SET


Khan:2019:NOP


Kaler:2016:EDD


Kronbichler:2019:MMF

Kumar:2015:FGA


Kalikar:2017:DNM


Kling:2015:PSM


Korupolu:2018:RPF


Kaplan:2021:DRS


Kestor:2015:TPD


Koutis:2016:SPD


Larus:2016:ISI

REFERENCES


REFERENCES

ISSN 2329-4949 (print), 2329-4957 (electronic).

Maier:2021:EPC


Monemi:2020:EDW


Maldonado:2015:STB


ISSN 2329-4949 (print), 2329-4957 (electronic).

Maleki:2016:LRM


McCreesh:2015:SST


Mitzenmacher:2018:BBC


Mirhosseini:2018:BBA

Amirhossein Mirhosseini, Mohammad Sadrosadati, Fatemeh Aghamohammadi, Mehdì Modarressi, and Hamid Sarbazi-Azad. BARAN: Bimodal adap-
Maier:2019:CHT


MeyeraufderHeide:2016:ISI


Mollah:2019:MUG


Natarajan:2020:FLL


Pingali:2015:ISI


Lee Savoie, David K. Lowenthal, Bronis R. De Supinski, Kathryn Mohror, and Nikhil
REFERENCES


REFERENCES


[XZZY15] Yi Xu, Bo Zhao, Youtao Zhang, and Jun Yang. Simple virtual channel allocation for high-throughput and high-frequency

**Yuan:2016:FCN**


**Yeh:2019:PGR**


**Zhang:2018:LFT**