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**Title word cross-reference**

2 [BSL17]. 3 [CAY+18, CWMC16, LGP+16, NRQ16b, SZJK18, ZSLX13]. 3 [CCZ13, DDT+17]. Z [SLM12].

-D [CAY+18]. -polytopes [SLM12].

/channel [LCL+14].

000-core [DAKK19].

2014 [Aca16, Ano15].

6 [KWM+08]. 64-bit [BWLR06, VED07].

7 [BKM+17]. 754 [LDG+13].

Abstracting [JSH09]. Abstraction [RLBBN15, ZM15, RCV+12]. Accelerate [CNS+16b]. Accelerated  
[HS05, SWF16, JED19]. Accelerating [DAKK19, GASÁ+13, GR15, JYJ+13, LWF+16, RMA14, TMP16, HWX+13].  
Acceleration [GáSÁ+16, HAC13, WFKL10]. Accelerator [MCB+12, YCA18, LHWB12, VDSP09].  
accelerator-based [LHWB12].  
Accelerators [KCA+13, KMG14, MTK18, USCMI6, BKA13, CI13]. Access  
[CG15b, CSK19, GFD+14, HK14, LGP+16, LHC+17, LTX16, SKH+16, XHJY16, FTLG11, HLR+13, HCC+14, JSH09,  
KCKG14, LWH11]. Accounting
Accumulate [GG18]. Accuracy [AAL+16, ASS17].
Accurate [NDP17, WAST16, LMJ+13b]. ACM [Aca16, Ano13a, Ano15, Bil19].
Across [DFD+14, NDP17, SW17a]. activations [JLCR13]. Active [KHS+14].
Adapt [DGI+14, FGB13]. adaptation [DJB13, LGA07, SS04]. Adapting [GHH15, LB05].
Adaptive [CG14, CWMC16, FQRG13, GFD+14, HWX+13, JRK16, Lee16, LYH16, Per18, WCI+16, WM11, AGI+12, MAN+08, RBM10, SW13, ZK05].
Adaptively [ZCF18]. Adaptness [AEC16]. Address-First [OAM19].
Addressing [WA08, CWCS13]. Advancing [TZK18]. Affine [AP17, NCC13, SLM12].
Against [BCHC19, ERAG+16, PHBC17, BVIB12, ZHS+19]. Agent [JPS17].
Aggregate [LY16]. Aggregation [AYC16]. Aging [DGI+14, KKW+15, LRBG15].
Aging-Aware [LRBG15]. Agnostic [SLJ+18, ZDC+16]. agreement [GMW09].
ALEA [MPW+17]. Algorithm [BC13, DGI+14, DTD16, BRSG12, CW13, CDPD13, HAJ+12, PLL10, XCO6, ZGC+12].
Analogue [DSK19]. Analysis [DSR15, GAM12, JK17, KR19, LMZ18, MMDs06, VTN13, VXG16, XFS+19, ARS04, AFD12, FER+13, JOA+09b, Nas13, SV05, SMK10, ZCW10].
analytic [XMM04].
Anticipating [LJMG12]. API [CI13].
Application [GTT+16, PLT+15, AS13, GASA+13, RCV+12, SB09, TDP15].
Application-Guided [GTT+16]. Application-Level [PLT+15].
Applications [ASS17, AZG17, DMR+16, DTD16, FWJ+16, GR15, JYE+16, NKKH16, RHLA14, RMA14, RLBBN15, WZG+19, XFS+19, CS13, DWDS13, HLR+13, KNBK12, MBKM12, STLM12, SY05, SLA+07, SLM12, YLTL04, ZG05]. Applied
[LB10]. applying [WWM05]. Approach [AZG17, CNS+16b, EMR14, FDF+14, GKK18, KS16, TS15, WAST16, WZG+19, ZX16, FT10, SSR13, WYJL10, YJTF13, ZCS06]. approachable [WHV+13].
Approximate [DS12, YPT+16].
approximation [LTG12]. Apps [PCM16].
Arbitrary [RHC15, WMS19]. arbitration [XCC+13]. Architecting [CPB+07].
Architectural [CPS+15, DCP+12, HEMK17, ME15, WAST16, WZG+19, IMS+08, SB09, ZQZ+05, CWC06].
Architecture [HK14, KAC+18, PVS+17, SLJ+18, SHY14, SWF16, VC16, VFJ+17, ZFT+18, ARS04, BVIB12, BWG+12, CPB+07, DJX13, GKP14, GSZ10, JYJ+13, JA14, LNLK13, PM12, STLM12, SNL+04, SRLPV04, SSPL+13, ZK06].
Architecture-Agnostic [SLJ+18]. architecture-independent [BVIB12].
Architectures [AJE+16, ASK+16, ASP17, CG15a, CEP+16, CDPN16, GR15, HAM17, JMJ+18a, LAS+13, PT17, RMA14, ZLYZ16, ZQZ+19, BBG13, BWLR06, BTS10, CG14, CK11, CDM13, KCP13, KKL+13, OKG+12, RCV+12, SSK11, SD12, SB09, TC07, TDG13, VIE13, YXK+12].
Area [LAS+13, SB09]. area-efficient [SB09].
ARI [FQRG13]. Arithmetic
[LA+15, BWG+12]. ARM
[GDL16, LHW+19, SHY14, SPH+17].
ARM-to-x86 [LHW+19]. Array
[DSK19, WG17, BWLR06, KLMP12].
Arrays [LMSE18, TD16]. ARSEC
[DDT+17]. Art [MWJ19]. Assembly
[LVR+15]. assistance [JOA+09a]. Assisted
[CDPN16, HNKK17, JDZ+13, KKAR16,
PHRC17, CST+06]. associative
[HL07, KWCL09]. associativity [YJTF13].
Asymmetric
[ZCQ+19, CG14, CCPG13, PCT12, SW13].
Asymmetry [LW+19]. Attacks
[BCHC19, ERAG+16, PHRC17, ZHS+19,
BVIB12, CCD12, DYL+12]. AUKE
[DK19]. Auto [CG15a, WG17].
Auto-Tuning [CG15a, WG17]. automata
[VW11]. automatable [AF07].
Automated [ASS17, BSSS14, BCHC19].
Automatic
[AMG16, DS19, JLR12, LBO14, LT13,
MGA+17, NC15, RB13, WLZ+13, WGO15,
WM10, SPS12, KWCS12]. Automatic
[FWJ+16]. Automatically [DGI+14].
Autotuning [AMP+16, SYE19, YAG+16,
KBR+13, LFC13]. AVPP [OAM19]. Aware
[ACA+19, DGI+14, CG15a, DTD16,
DH+14, GVT+17, KFEG18, LYH16,
LRBG15, PVA+17, PG17, RSK+18, SEF+19,
SLJ+18, SKH+16, SZK+18, SKPD19,
USCM16, WLZ+13, WJXC17, ZCQ+19,
ZYY17, CG14, CWC513, EE09, GGFPRG12,
NB13, SSS+04, SEP07, WYLJ10, WSC+13,
WDXJ14, ZYCZ10, ZDC+12, ZK06].
Awareness [HLSW17, LKL+13].
Bahurupi [PM12]. Balancing
[LLRC17, PGB16, HWH+16]. Band
[SPS17]. Band-Pass [SPS17]. Banded
[BLS17]. Bandwidth [LGP+16, ZCCD16,
ZCQ+19, DZC+13, WYLJ10, XCC+13].
Bandwidth-Asymmetric [ZCQ+19]. bank
[LCL+14]. bank- [LCL+14].
bank-/channel-level [LCL+14]. banked
[AGT+12]. Banks [ZCF18]. Based
[AJE+16, CNS+16b, CG15a, CG15b, DSR15,
DAD16, DAP+15, FDF+14, GAM12,
HY16, JPS17, KS16, LCS+19, LTX16,
LY16, MNC+16, MTK18, NC15, SBS16,
WGO15, WDX15, WCI+16, WWC+16,
WMGS19, XHJY16, XFS+19, ZH19,
ZLC+15, ZSM+16, AVRF07, BCVT13,
CPP08, CW13, GK13, HLR+13, HAJ+12,
HW14, HWX+13, JYJ+13, KBR+13,
LBO14, LGT12, LCL+14, LHWB12, RLS13,
SS04, SKKB18, TKJ13, WSC+13, WTP14,
ZHD+04, ZGC+12, ZFT+18]. Bayesian
[AMP+16]. Be [SW17a]. behavior
[AF07, LS10]. Benchmark [ABB+16,
AYL+18, CCM+16, DDT+17, DS16, BE13].
Benchmarking [DAP+15]. benchmarks
[JE18]. Benefits [LW+12]. Benzene
[KAC+18]. BestSF [BJWS18]. better
[TBC+12]. Between [EPS17]. Beyond
[FER+13]. Bias [Lee16]. Big
ZLYW18, ZLC+13]. Big-Memory
ZLC+15]. Bimodal [TD16]. Binary
[DGGL16, GDL16, HWH+19, LHW+19,
SHY14, CDM13, GH12, HS06, HLC10,
LWH11, PKC12]. bipartite [BZS13]. Bit
[TBS06, BWLR06, VED07]. Bit-split
[TBS06]. bitwidth [NB13].
bitwidth-aware [NB13]. Blaze [PWPD19].
Blaze-Tasks [PWPD19]. Block
[GF14, KTA16, LLRC17, LTX16,
MPS18, TJKZ18, ZK06]. Block-aware
[ZK06]. Blocks [HJ+15, SYX+15].
Boltzmann [PAVB15]. Bones [NC15].
Boosting [ASV+16, KH18, RLS13, BTS10].
both [BSWE13, HP04, MP13].
bottlenecks [MM+06]. bound [MBKM12].
bounded [HS06]. Bounding [XM04].
Bounds [ECP+15, BWLR06]. BPM
[LCL+14]. BPM/BPM [LCL+14]. Branch
[EPAG16, LYL18, Mic16, ZC07, HWH+11,
Jim09, JS+04, LB05, MG12, TS05].
branch-predictor [JS+04].
branch-target [LB05]. Branches
[DGGL16]. Breakdown [HYA16].
bridging [HCC+14]. Bringing [DDT+17].
buddy [KW10, ZJJ+15]. Budget
[LWF+16]. buffer [LB05, RB13].
Buffering [YMM+15, GPL+05]. Bugs
[AAI+16]. build [SSH+13]. Building
[KRHK16, WDX15]. Buri [ZLC+15].

C [CWW+16, NC15, NED+13].
C-to-CUDA [NC15]. C/C [NED+13].
C1C [LZL+13]. CACF [ZFT+18]. Cache
[CAGS17, DAD16, GFP+14, HK14, HMY15, KR19, KAC+18, KAC15, LLRC17, Mic16, SSW16, SBS16, SKH+16, SLJ+19, VPTS19, WJX17, YDL+17, ZWY17, ZWL+19, APG13, AGV05, AGI+12, AFD07, BSWL13, C11, CWS06, DJL+12, FTLG11, GGFPR12, GSZ10, HAJ+12, KS11, KWC10, LCC+11, LZL+13, MMdS06, RFD13, SS04, SBC05, SSH+13, TKJ13, VSP+12, WSC+13, WDX14, ZHD+04, ZVYN05, Zha08, NTG13]. cache-coherence
[MMdS06]. cache-coherent [APG13].

Caches [CAGS17, CPS+15, GBD+15, JPS17, SBS16, WDX14, AI13, DJL+12, HS06, HJ07, KS11, KWC10, LCC11, LZL+13, MMdS06, MS05, SSK+11, SSC+13, VSP+12, WDX14, WLZ+10, WM11, ZDC+12]. Caching
[DNT16, SYX+15, DZC+13, JOA+09, WFKL10]. CACTI [BKM+17]. Caffe
[RSP+18]. CAFFEINE [PB15]. CAIRO
[HNKK17]. Call [Lee16, MG12]. Capability
[AHA+19, DGI+14]. Capacity
[GBD+15, SSK11, WM11]. CART
[CDP13, CDP13]. Case
[KH18, MMS15, SKAEG16, SSRS15, AFD12, FPS06, WK09, LB10]. CATCH [KS11].

Caused [SYX+15]. CAVA [CST+06]. CC
[CCZ13]. Cell [YMM+15, STL12]. cells
[JSN+04]. Center [FXC+15]. centers
[AVG12]. Centric [ILJ+18]. CERE
[DAP+15]. CG [MAD17]. CG-OoO
[MAD17]. CGRA [HAC13]. chains
[SSH+13]. Chameleon [WFKL10]. Change
[HSA16, JDS+13, YMM+15, ZDC+12]. Channel
[BHC19, BVI12, DJL+12]. channel-level [LCL+14]. Channels
[DJC16, EPAG16]. chaotic [LTG12].

Characterization
[CVB15, DS12, FER+13, VW11]. Characterizing [BCM11]. Checking
[KK15, BWLR06, MG13]. Checkpoint
[GW09, ARS04, CST+06]. checkpoint-assisted [CST+06].

Checkpointing [WZG+19, DXM11]. Chip
[BKM+17, CPS+15, CEP+16, DJC16, EPS18, LBM13, VFW16, APG13, BKA13, CK11, EE11, GSZ10, JPS17, LWWH12, LT13, LNLK13, LAS+08, LM05, LPZ12, LMM08, SMK10, TDG13, XCC+13]. Chips
[LCS+19, ZM15]. choices [VE13].

Circuit [ZFT+18, DJX13].

circuit-architecture [DJX13]. Circuits
[KKW+15]. Circuits/Cores [KKW+15].

Citadel [NRQ16a]. Class
[AAI+16, PAVB15]. Classification
[DRHK15, MCB+12, SN+19, CDP13, LMJ13a, NCC13]. client [KWM+08].

Clock
[CCL+13]. Cluster
[SKKB18, YCA18, TC07]. Clustered
[MMS15, ACGK04, SW13]. Clustering
[MNC+16, WMGS19, DS12, JLCR13, SB09].

Clustering-Based
[MNC+16, WMGS19]. Clusters
[KHS+14, MMS15]. CMP
[CPB+07, LMCV13, SSK+11, SLJ+18, WM11].

CMPs
[LMJ13a, LY16]. Co [AHA+19, JPS17, KHN+18, ZFT+18, DJX13, YLW08].

Co-location
[KHN+18, YLW08].

Co-optimization
[JPS17, ZFT+18, DJX13].

Co-Processor
[AHA+19]. coalescing
[SSU+13]. coalescing-lowering
[SSU+13].

Coarse
[LMSE18, MAD17, TD16, KCP13].

Coarse-Grain
[LMSE18, MAD17].

Coarse-Grained
[TD16, KCP13].

Coarsening
[SF18]. COBAYM [AMP+16].

CODA
[KHN+18]. Code
[CZ07, DSK19, KLI, ZAVB, PKPM19, SYE19, AvRF07, CDM13, GNB08, HLR+13, HS06, JLER12, KB+13, LKL+13, LB05, LLYZ09, LHY+06, PK12, RCG+10b, VJ+13, ZK05, ZWHM05].

code-positioning [ZWHM05]. Codelet
[DAP+15]. Codes
[CWMC16, TZEK18, AFD07, AFD12].
Codes [KAC+13]. Codesigned
[KMG14]. Coding [PM17]. Coherence
[DRHK15, KAC15, MMD06, SSH+13, VHKK11]. coherent [APG13].
Collaborative [FT10]. collapse [CWCS13].
Collection [ASV04]. Collective [FT10].
collector [WK09]. colocated [DWDS13].
Coloring [YXW92, LFX09].
Combinatorial [SKP09, SSR13].
combined [BWW+12]. Combining
[VSP+12]. Commodity [WX15].
common [WK09]. Communication
[DSR15, HAM17, HWX+13, SSPL+13, TC07]. communications [ACGK04].
Compact [HEM17, SCH13]. compaction
[WK09]. Comparability [YXW92].
Comparative [ASV+04]. Comparators
[YHI+14]. comparison [FBW13].
CompEx [PM17]. Compilation [DMR+16, LRBG15, PKPM19, SYE19, SN17, CI13, JK13, KHL+13, LBO14, LZY+09, PC13].
Compile [KTAE16]. Compile-Time
[KTAE16]. compiled [NE+13]. Compiler
[AMP+16, ABP+17, CCD12, DMR13, EPS17, GGG18, HNKK17, HYR+15, KPP+15, LFX09, MNC+16, MG12, NKK16, NC15, PHBC17, ZSCM08, ZX16, CYX13, DC07, HWM14, HLC10, JOA+09a, JOA+09b, KBR+13, KW+08, LZZ+13, LCH+04, TR13, YX+12, ZHD+04].
Compiler-Assisted [HNK17, PHBC17].
compiler-based [ZHD+04].
Compiler-Directed [HYAR+15, LFX09].
compiler-guided [LZL+13].
Compiler-Oriented [GGK18].
Compiler/Runtime [KPP+15]. compilers
[CDM13, HEL+09, SD12]. Complex
[SHD15, SLA+07]. Complexities
[GHH15, ZBH+13]. Complexity
[GG18, KAC15, CPP08, DJL+12, RPS06, SRLP04]. complexity-effective [RPS06].
component [LGAZ07]. Comprehensive
[CPS+15]. Compressed [SSW16, DZC+13].
Compression [BC13, KPM17, LMSE18, PM17, SW17, KKG10].
Compression-Expansion [PM17].
Compression/Decompression [LMSE18].
Compressive [WCI+16]. Computation
[CWI+16, HAM17, KHN+18, DDU12, LFC13]. Computationally [DSH+18].
Computations [PAV15, CYX13].
Compute [DAKK9]. Computing
[DSH+18, KHS+14, LCS+19, ME17, PWPD19, SW17, TC16, ZLYW18, ZLC+15, AVG12, LM05]. conceived
[APG13]. Concurrency
[AAI+16, GMS1P14, ME17]. Concurrent
[PC13]. Conditional [Mic18].
Conditionals [JSL13]. Configurable
[NRQ16b, HV09, LZZ+13]. conflicts
[TGC+12]. connected [BRS].
conscious [LZY+09]. Conserving
[LYW07]. Considerations
[HMY15, MTK18, LM05]. considering
[AVG12, HP04]. Consistency [ZGN15].
constrained [MSF+07, NMKS06, ZK05].
Constraints [AEJE16, KCA+13, WYJ10].
Consumption [FCD+17, GFD+14, LTG12, LYY07, VED07, ZHD+04]. Contech
[RHC15]. content [KS11]. contention
[CWCS13]. Context
[EPS17, DGM13, LS11]. continual [JA14].
Continuous [TR13]. Control
[AP17, BRJM15, HAC13, HHC+16, SMK15, KHH+16, CWW+06, FSyA09, IWP+04, MBKM12, TQ07]. Control-Flow
[SMKH15]. Controlled [ASS17, RCV+05].
controller [AGI+12]. Conventional
[NRQ16b]. conversion [CS13]. Converting
[HLC10]. convolution [FBW13].
Convolutional [GG18, TDP15, ZFF+18].
cooling [AVG12]. cooling-computing
[AVG12]. Cooperation [TZK18].
Cooperative
[DNT16, JPS17, JDZ+13, LBM13, SHLM14].
Coordinated [ZDC+16]. coprocessor

d [BSL17, CAY+18, CWMC16, LGP+16, NRQ16b, SZJ18, ZSLX13]. d-Packed [BSL17]. D-Stacked [LGP+16, NRQ16b]. DAPSCO [GGFPRG12]. dark [PCT12].

DarkCache [ZCF18]. DASH [USCM16]. Data [AMG16, CDNP16, DAKK19, EPS18, ESR+15, FXC+15, GAM12, HAM17, HLSW17, JLLJ+18a, KPM17, KHN+18, LWL18, ME15, ME17, MTK18, MNSC16, MGA+17, MSGH16, NKKH16, PD17, RMA14, RTK15, SKH+16, TDP15, VFJ+17, WGO15, WZG+19, YMM+15, ZLYW18, AVG12, BSWLE13, CS10, CA11, CDPD13, CWCC06, FER+13, FLG12, HLR+13, HL07, LWH11, LJM12, PC13, RB13, RFD13, STL12, TG07]. Data-Driven [ME15, ME17].


Dependence [BRJM15, DHD+14, JK17, SL09, TG07, VTN13]. Dependence-Aware [DHD+14]. dependences [BCVT13].


RTK15, SZJ18, SPH+17, SL09, VHKP11, WLZ+10, BE13, CPP08, IMS+08, LB10, LCC11, LHZ13, VE13, ZK05]. Designing [BKA13, BSWLE13, MGSH16]. Details


Direct-Mapped [LLRC17]. Directed [HYAR+15, VZS+18, LFX09, NED+13, SEP07, WM10]. directives [CWX+12]. Directories [PT17]. Dirty [LLRC17].


dispatching [LZ12]. dissemination [LZZB09]. Distance [DAD16, GGFPRG12, KR19, FER+13, FTLG11]. Distance-aware [GGFPRG12]. Distance-Based [DAD16].


Domain [GAS+16, GAS+13]. Domains [SW17a]. DPCS [GBD+15]. DPM [GK13].

Dragonfly [CVB15]. DRAM [CAGS17, HCC+14, LJOR13, LLRC17, LCL+14, OTR+18, TMK14, VTS19, XHJY16].

DRAMCache [PG17]. DRAMS [LSC+15]. Drift [SZJK18]. Driven [ME15, ME17, PB15, ZWS+16, CDM13, FTLG11, SLP08, WTOF014, XT09, ZCS06].

Dropping [GFD+14]. DSL [PBY+17]. DSPs [VCJ+17]. Dual [EPS18, WZG+19].


Dynamically [LZ12, PG12, KS11].

eager [JLCR13]. early [JOA+09b, LSL08]. Easy [TDG13]. ECC [CWM16]. ECCs [ZW+19]. ECS [SPM17]. Editorial [CT08]. EECache [CP+15]. Effective [GMG14, HV06, KHI18, PGB16, SSW16, SPS17, WH+05, LWH11, RPL06, SBC05].

Effectiveness [JK16]. Effects [DRHK15, MGI15, CK11]. Efficiency [AJK+12, CAM15, CSK19, HLSW17, LMSE18, LAAMJ15, OTR+18, OAM19, TCS16, ZJ+15, BSWLE13, CWS06, RCG+10a, ZSLX13].

Efficient [AYC16, BC13, CC13, CPS+15, DDU12, DD16, GASP+16, GBN08, HAC13, HEM17, IMS+08, KR19, KAC+18, KHI18, KMG14, LWH11, LDC15, MCB+12, MKKE15, MAD17, NMKS06, PS15, SN17, TDP15, TTS19, WZG+19, YMM+15, ZPC06, ZHS+19, ZJL18, ZZQ+05, APG13, ARS04, CW13, CWCS13, DCP+12, GW08, JSLS13, JOA+09a, KHK+05, LZZB09, LMJ13a, LHZ13, NAS13, PLL10, RDF13, SPGE06, SHC13, SB09, TDG13, XCC+13, ZGC+12, FSYA09, SLA+07].

Efficiently [NRQ16a, PCT12, RHC15, ZWL+19].

[JLER12, VED07]. Embedded
[GTG+16, GKECE17, KE15, KTA16, CPP08, CDM13, GHS12, MP13, SCH13, SD12, XT09].
embedded [KKM+13], emergences [RG+10b], emerging [DXM11, XCC+13].
empirical [AvRF07]. Emulation
[NZ15, TKKM15]. Emulators
[HHC+16, TKKM15]. Enabling [BGG+15, CC18, HNKK17, KH+18, SKAE16].
Encoding [TDP15, ZX19]. End [ZJ+15].
Endurance [WDXJ14]. Endurance-aware
[WDXJ14]. Energy [AJK+12, AYC16, AS17, CPS+15, DH16, GKE17, GFD+14, HMYZ15, JOA+09a, KAC+18, LMSE18, LSC+15, LMA+16, MCB+12, MTK18, MKKE15, MAD17, MPW+17, OTR+18, PM17, RTK15, SW17b, SN17, SB09, TCS16, TTS19, ZJ+15, ZFT+18, ZCF18, AVG12, BSWE13, CWS06, CWSC13, FBWE13, GWS13, GKP14, LTG12, LG09, LMY+13b, LHZ13, SPGE06, SHC13, TDG13, ZHD+04, ZVYN05, ZGC+12, ZSLX13].
Energy- [SB09]. Energy-Efficient [AYC16, CPS+15, KAC+18, MKKE15, MAD17, SN17, TTS19, JOA+09a, CWSC13, LZY09, LHZ13, SPGE06, SHC13, TDG13, ZGD+12].
Energy-Optimal [SW17b].
Energy-Performance [MTK18, ZCF18].
Energy-Proportional [DH16].
Enforcement [AHA+19, GW07]. Engine
[LP17, PB15, RMA14, WLZ+13, CW13].
Engines [MG15, TBS06]. Enhance [GAM12]. Enhanced [TKM14].
enumeration [SWH09]. Environment
[KMG14], environments
[RG+12, WWWL13]. EOLE [EPS17]. Era
[GBD+15, LNLK13, PCT12]. Error
[DGI+14, CWMC16, DSH+18, LSC+15, SPM17, TJK18, YEI+14, CZZ+13, LKL+13].
Error-Correcting [SPM17].
Error-Tolerant [DSH+18]. Errors
[FWJ+16, ZWS+16]. essence [JEBJ08].
Estimation [WAST16, XHJY17, LG12].
Evaluate [TDO16a]. Evaluating
[CCM+16, CWS06, HWH+11, SSK11, SW17a].
Evaluation
[BC13, CHE+14, FWJ+16, AvRF07, KWT10, LCC11, LAS+08, RGG+12, ZK05].
Evaluator [JSL13]. Evaluator-executor
[JSL13]. event [GW07]. Evolving
[DGX+16]. Examining [WSS+16]. exascale
[DXMJ11]. ExaStencils [KL19]. exception
[HW14]. Exceptionization [YKLM17].
Exclusivity [YDL+17]. Execution
[AS17, CC18, D17, GMGZP14, HAC13, HEM17, KS16, ME15, MAD17, NZ15, PVA+17, PS15, SEF+19, SYE19, VSD16, WLZ+13, ZX19, ZC16, GB06, LZ12, LHZ13, SJA12, VTN13, XIC12, ZG05].
Executions [ND17], executor [JSL13].
Exhaustive [KWT10]. Existing [YEL+14].
Expanding [YBSY19]. Expansion
[PM17, ZLC+15]. explicit [SL12].
Exploit [AAC+16]. Exploiting
[AYV13, ASK+16, HWJ+15, KG10, LW+19, MA08, NKE16, YEL+14, YZ08, YZ+10, ZX16, LYYB07, PCT12, RLS13, SNL+04, JOA+09b]. Exploration
[BKM17, KL19, MNC+16, CPP08, IMS+08, KWT10, VHKP11, WLZ+10].
Explorations [G+15]. Exploring
[CK11, JK13, JOA+09b, MB12, MK05, SKPD19, BE13, DX13]. Exposing
[CSK19]. Express [JDC16]. Expression
[BC13], expressions [JSH19].
Expressiveness [PC13]. Extendable
[CXW+12]. extended [SV08]. Extending
[DBH16, DSH+18, JED19, VC17].
extension [DCP12]. Extensions
[KHS+14]. Extractor [DP15]. Extreme
[CAY+18, JLY+18a]. Extreme-Scale
[CAY+18, JLY+18a].
Factorizations [AP17]. Facts [Mic16].
Failures [NRQ16a]. Fair [LMC13].
Fairness [GW07, LY16]. Falcon
[CNS16a]. false [BCV13]. Fast
[BC13, CCPG13, KCP13, KWH+05].
Finding MPW [AZG17, BSSS14, EE11, HYYAM16, OAM19].

Finite [OAB12]. Fine [AZG17, BSSS14, EE11, HYYAM16, MPWt+17].

Fine-Grained [BSSS14, MPW+17, YEI+14, EE11, WM11, LT13]. Finite [LVR+15, VW11].

Floating-Point [ASS17, BWG+12]. Flow [BRJM15, CWW+16, DMR+16, GAM12, HAC13, LY16, MMT+12, SMKH15, FSAY09, JA14, KHL+13, MBKM12, Nas13, PC13, TG07]. Floating-Plane [DSK19]. Format [BJWS18].

Formulating [MAN+08]. Four [TDO16a].

FPGA [CS13, CWW+16, CDPD13, MTK18].


frame [GK13]. frame-based [SK13].

Fusion [FBWS13, GNB08, PI12]. fractal [YJY+13]. fractal-based [YJY+13]. Fraction [SPS17].

frame [GK13]. frame-based [SK13].

Fusion [FBWS13, GNB08, PI12]. fractal [YJY+13]. fractal-based [YJY+13]. Fraction [SPS17].

frame [GK13]. frame-based [SK13].

Fusion [FBWS13, GNB08, PI12]. fractal [YJY+13]. fractal-based [YJY+13]. Fraction [SPS17].

frame [GK13]. frame-based [SK13].

Fusion [FBWS13, GNB08, PI12]. fractal [YJY+13]. fractal-based [YJY+13]. Fraction [SPS17].

frame [GK13]. frame-based [SK13].

Fusion [FBWS13, GNB08, PI12]. fractal [YJY+13]. fractal-based [YJY+13]. Fraction [SPS17].

frame [GK13]. frame-based [SK13].
[BGG+15, HLSW17, MBKM12, YXK+12].

GPUs [ZJJ+16].

GPU [BJWS18, DS16, HLR+13, JED19, JGSM15, KHN+18, LHC+17, LMZ+18, LAMMJ15, LFCL+13, RBB+19, SNF+19, TBC+12, VC16, VZS+18, WGO15, ZSLX13].

GPU-accelerated [JED19].

GPU-Based [WGO15].

GPUs [ASS17, CSK19, DS16, DNT16, FBWSS+13, JAK17, KR19, LRBG15, NC15, SHLM14, WYCC11, YBSY19, ZSM+16].

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gradient-based [HAJ+12].

Gradients [FWJ+16].

Grain [AZG17, HYYAM16, LMESE18, MAD17].

Grained [BSSS14, MPW+17, TD16, YEE+14, EE11, KCP13, LT13, WM11].

Granularity [DRHK15, NRQ16a, TKM14].

Graph [CNS16a, KKA16, YXWY+12, ZLJ18, DS12, LFY09].

Graphics [ASS17, FSYA09, ZSLX13].

Graphs [BRJM15, LC16, RHC15, VGY16, BZS13, DDD12, MG13].

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Guided [GTT+16, HWL+19, CS13, LZL+13, RC+10b, SSU+13].

Hadoop [KHS+14].

Halide [VCJ+17].

halting [ZVY05].

Hamming [CVB15].

handling [HWM14, WHH+11, LW11].

HAP [WJCX17].

Hardening [PHBC17].

Hardware [BGG+15, CDPN16, DHK18, DD16, JDZ+13, KAC15, LMMJ+13b, NDP17, PVA+17, RHLA14, SKAEG16, SWF16, TGAG+12, USCM16, WC+16, ZHS+19, ZLC+15, ZSM+16, ATGN+13, CS10, CI13, FSYA09, GNB08, HCC+14, MMdS06, OAB12, RLS13, REI12, YJFT13, ZSCM08].

Hardware-Accelerated [SWF16].

Hardware-Assisted [CDPN16, JDZ+13].

Hardware-Based [ZLC+15, ZSM+16].

hardware/software [CS10, HCC+14, MMdS06].

Hash [SBS16].

Hash-Based [SBS16].

HASHCache [PG17].

HC [CDPN13].

HC-CART [CDPN13].

header [VED07].

Healthy [JLJ+18b].

heap [WVY+12].

Heterogeneity [PG17, SB09].

Heterogeneity-Aware [PG17].

Heterogeneous

[AEJ+16, ASV+16, ASF17, CNS16a, CWW+16, DMR+16, FDP+14, GAT+16, GHH15, HAM17, HYZ15, KRHK16, LP17, PG17, PBY+17, TDO16a, TDO16b, TTS19, USCM16, WGO15, ZFL18, BBG13, KNBK12, LH13, PM+12, TDG13, VE13, WFKL10].

Heuristics [MKKE15, TR13].

hide [CST+06].

Hiding [GW08].

Hierarchical

[ASK+16, CDPN16, ZGP15, SW13].

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Hierarchy

[AYC16, ZDC+16, ZSM+16].

High

[CAY+18, CHE+14, CAMJ15, GCK18, JED19, ME17, SU+15, SLJ+19, TCS16, TM14, USCM16, ASK13, BCN10, CK11, CD13, GW08, KBR+13, OGK+12, SRLPV04, SD12, ZVYN05].

High-Efficiency [CAMJ15].

High-Level

[CHE+14, BCN10].

High-Order

[CAY+18].

High-Performance

[GGK18, SLJ+19, TM14, USCM16, JED19, CK11, CD13, GW08, KBR+13, SRLPV04, SD12, ZVYN05].

high-radix [ASK13].

high-throughput [OGK+12].

Highly

[TMP16].

Histogram [FWJ+16].

hits [CA11].

HMTT [HCC+14].

Homogeneous

[CC18].

HotSpotT* [KWM+08].

HPAR

[ZBH+13].

HPC

[ACA+19, MP13, PLT+15, SLJ+18, ZPR+17].

HP CG [AYL+18].

HRF [GHH15].

HRF-Relaxed [GHH15].

HTML

[ZBH+13].

HTML5 [NH16].

HW

[KMG14, LKY+15, TS15].

HW/SW

[KMG14].

Hybrid

[AR13, CA11, DXM11, HWJ+15, YJE+16, KAC+18, WJXC17, CS13, DZC+13, HCC+14, MMdS06, RBM010, WLZ+10].

Hybrid-Memory-Aware [WJXC17].

I-Cache [ZWY17].

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[DCP+12, RHLA14].

IATAC [AGVO05].
Identification [WCI+16]. Idiom [KKM+13]. Idle [SEF+19, WFKL10].

Kernel [DSK19, LP17, SNN+19]. kilo [CSVM04]. kilo-instruction [CSVM04]. L1 [HK14, LZL+13]. L2
[AGVO05, CST+06, SLP08, SBC05].

**L2-miss-driven** [SLP08]. **Lane** [WWC+16].

**Language** [CNS16a]. **Languages**

[DHD+14, YKM17, NED+13]. **LAPPS** [KFEH18]. **Large** [NRQ16a, SKH+16, KWCL09, RCV+12, SMK10]. **Large-Scale** [SKH+16, RCV+12, SMK10].

**Last** [CPS+15, LMB13, WDX14, WJXC17, AGI+12, AIVL13, VSP+12, ZDC+12].

**Last-Level** [CPS+15, LMB13, WDX14, WJXC17, AGI+12, AIVL13, VSP+12, ZDC+12].

**Latency** [HAM17, HK14, KCA+13, PM17, MP13, SW13, WYJL10, YLTL04].

**Latency-Tolerant** [HAM17]. **Lattice**

[CG15b, PAVB15]. **Lattice-Based** [CG15b].

**Lattice-Boltzmann** [PAVB15]. **Law**

[DSH+18]. **Layer** [ERAG+16, JLC+18a, LGC+16, OTR+18, WAST16].

**Layer-Centric** [JLC+18a]. **Layout**

[CYXF13, WS17]. **Layout-oblivious**

[CYXF13]. **Layouts** [BSL17]. **LD** [LHC+17].

**LDAC** [SKH+16]. **leakage** [HL07, MSK05].

**Learning** [ABP+17, JPS17, JLB+18a, MCB+12, RSK+18, DJB13, LBO14, SPS12, TR13, WO13, WFT014]. **Learning-Based** [JPS17]. **Legacy** [MNOC16]. **legalization** [AR13].

**Less** [ZPR+17]. **Level**

[BGG+15, CHK+14, CPS+15, HNKK17, HK14, JYE+16, LCS+19, LMZ18, LMB13, MG15, PILT+15, RLLBN15, SWU+15, WDX14, WJXC17, AGI+12, AIVL13, BCV110, EE09, GMW09, GPL+05, LCL+14, PCT12, VSP+12, YBSY19, ZDC+12].

**Level-1** [HK14]. **Leveling** [JDZ+13].

**Levels** [RJSA18, RCV+12, SLA+07].

**Leveraging**

[GAM12, LMJ13a, NZ15, SLM14].

**Liberalization** [MY16]. **libraries** [BCM11].

**Library** [FDF+14]. **Library-Based** [FDF+14]. **Lifet ime**

[PM17, SPM17, TJK18, XCO6]. **LIGERO** [APG13].

**Light** [CBD15, APG13].

**Lightweight** [DT17, SLJ+18, BWG+12, DMG13, LNLK13]. **like** [Mic18]. **limitation**

[DTZ+13]. **Limitations** [JR16]. **limited** [CZ07]. **limits**

[JOA+09, MBKM12, MSK05]. **line**

[WDXJ14]. **Linear** [AJE+16]. **lines**

[AGVO05]. **linked** [FLG12]. **Links**

[ACA+19]. **List**

[Aca16, Ano13a, Ano15, Bil19]. **Live**

[ZPR+17]. **liveness** [BZS13, DDU12]. **LL**

[FQRG13, VPTS19, ZCF18]. **LLC-memory**

[FQRG13]. **LLVM** [DAP+15].

**LLVM-Based** [DAP+15]. **Load**

[OAM19, PGB16]. **Load-Balancing**

[PGB16]. **Loading** [PCM16]. **Loads**

[YPT+16]. **Local** [LVR+15, DHC+13].

**Locality** [ASK+16, CG15a, KFEH18, SKH+16, ZQX+19, AIVL13, FER+13].

**Locality-Aware**

[CG15a, KFEH18, SKH+16]. **Localization** [CEP+16]. **location** [KHN+18, YLW08].

**Lock** [CWCS13]. **Lock-contention-aware**

[CWCS13]. **Locking** [ZYW17].

**Loop** [ASP17, JK17, LVR+15, PHBC17, BCT13, NCC13, SHLM14, SLM12, YZL+10].

**loop-dependent** [YZL+10]. **Loops**

[CNS16b, SN17, SRC16, JSL13, KLMP12, RTG+07]. **Low** [BGG+15, CAMJ15, DLJ+12, GG18, GSR+16, GLD16, LGC+16, LHC+17, RRTK15, SSW16, SW13, SWU+15, YEI+14, AGI+12, BB04, CCZ13, GKP14, MA08, SRLP04, ZYH05].

**Low-complexity** [DJL+12, SRLP04].

**Low-Cost**

[SSW16, YEI+14, AGI+12, MA08].

**low-energy** [GKP14, ZYH05]. **Low-latency** [SW13]. **Low-Level**

[BGG+15]. **Low-Overhead**

[GLD16, LHC+17]. **Low-Power**

[CAMJ15, GSR+16, BB04, CCZ13]. **Lower**

[ESR+15]. **lowering** [SSU+13]. **LP**

[GFD+14].

**Machine**

[ABP+17, DJB13, LBO14, SCEO8, SPS12,

Mechanistic [BEE15, CHE+14]. Media

Mechanization [KLM97, [KFL10], [ME01]].


Management [KKW+15]. Malware [WC1+16]. MAMBO [GDL16]. Managed [YWXX+12].


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Microarchitecture
[MMS15, ASK13, HS05, RPS06, SSS+04].
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Microbenchmarking [FMY+15].
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[KCA+13, BE13, YCCY11].
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[JJL+18a, LTX16, LJMG12, MSF+07].
Million [CAY+18], MIMD [FSYA09].
MINiGLE [GâSA+16], miniature [JEBJ08].
minimal [XL07], MINIME [DS16].
MINIME-GPU [DS16], minimization
[CH06, SSR13], mining [CDPD13]. Minos
[CWC06]. MIPS [SHD15]. misaligned
[LWH11]. Mismatches [APBR16].
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[ABP+17, EPAG16, SYX+15, LCL+14].
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[CDD12]. Mixed [XIC12], MLC
[PM17, RJSA18]. MLC/TLCD [PM17].
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[AVRF07, TBC+12]. mode [SW13].
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NZ15, SRC16, XHJJ17, YCA18, ZHB18,
DC07, MG13].
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[BB15, KR19, LAS+13, SSC+13, AFD07,
CA11, EE12, IMS+08, XMM04, SSS+04].
Models
[CHE+14, FCD+17, GGS+19,
GH15, VFV16, LAS+08, XIC12].
Modern
[KHYAM16, CCD12, JK13, KNBK12].
Modification
[CDL16], Modify [RLS15].
Modulo
[LMSE18, KCP13]. Moldable
[MKKE15]. Monitoring
[LHC+17, LMMM08, VDSP09, ZZQ+05].
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[DJL+12]. Moore
[DSH+18]. Most
[PLT+15], Movement
[ESR+15]. Moving
[DAKK19]. MP
[WLZ+13]. MP-Tomasulo
[WLZ+13]. MPI
[HWX+13, MP13]. MPSocs
[DMR+16]. MRAM
[WXD15].
MRAM-Based
[WXD15]. MSHRs
[CA11]. Multi
[CC18, FMY+15, FCD+17, GVT+17,
JPS17, LGP+16, PGB16, SPS17, ZCF18,
CDPD13, GWS13, LFC13, PM12, RB13,
RPE12, ZGC+12]. Multi-
[FMY+15]. Multi-Agent
[JPS17], Multi-Core
[CC18, SPS17, PM12, ZGC+12].
Multi-Cores
[ZCF18]. Multi-CPU
[PG16], multi-FPGA
[CDPD13].
multi-GPU
[LFC13, RB13], multi-issue
[GWS13]. Multi-Layer
[LGP+16]. multi-server
[RPE12]. Multi-Tenant
[FCD+17]. Multi-Threaded
[GVT+17]. Multibank
[CG15b], Multiblock
[KPM17]. multicharacter
[CW13]. Multicores
[AVS+16, BHC+16, CC13, CG15a,
CDP16, DS16, DAKK19, HMYZ15,
HEMK17, KE15, KK15, LAS+13,
LMA+16, LHY16, PT17,
PGB16, SLJ+18, SKH+16,
ZDC+16, CG14,
CK11, CWCS13, DEE13,
FBWS13, HWX+13,
LMJ+13b, LCL+14,
LHZ13, RCG+10a,
VE13, WFKL10, ZCW10].
Multicores
[HK14, PB15, TDO16a,
TTS19, MSF+07].
multidimensional
[RTG+07]. Multigrain
[RTG+07]. Multithreading
[AG17]. Multilevel
[XHJY16, YMM+15, JK13, TKJ13].
multimedia
[SV05], multiobjective
[CPP08]. multiplatform
[HLC10]. Multiple
[KHN+18, ZSM+16, GB06,
HVJ06, RCV+12].
Multiplexing
[NDP17]. Multiplication
[YAG+16]. Multiply
[GG18].
Multiply-Accumulate
[GG18]. multiprocessor
[BBG13, GSZ10, LT13].
Multiprocessors
[CP+15, LBM13, APG13,
GPI+05, LAS+08, LM05,
LPZI12, LMMM08, SM10].
Multiprogram
[EMR14]. Multisocket
[CG15a]. Multithreaded
[AG17, JYE+16,
LHY16, DWDS13, GMW09,
NTG13, PGB13,
RGG+12, RCG+10a, XIC12].
multi-threading
[EE09, GWM07].
NAND
[DG+14, SJK18, ZWL+19].
Nanoscale
[GBD+15]. native
[RPE12].
Near [HK14, KCA+13, LP17, MAD17, VFI+17, KCKG14, RPE12]. Near-Data [VFI+17]. Near-Memory [LP17].
Near-Optimal [KCA+13, KCKG14].
Near-Threshold [HK14]. Need [ZPR+17].
next [SLM12]. Nested [MGSH16, KLMP12].
next [NCC13]. Network [CEP+16, DJC16, EPS18, JPS17, TDP15, VFW16, ZCCD16, ZM15, ASK13, LNLK13, LYYB07].
Network-on-Chip [CEP+16, DJC16, EPS18].
Network-on-Chips [ZM15]. Networks [ACA+19, AMP+16, CVB15, GG18, GR15, MWJ19, RSK+18, ZFF+18, BKA13, LWWH12, PRMH13, SMK10, SEP07].
networks-on-chip [LWWH12]. Neural [GG18, GR15, MWJ19, RSK+18, TDP15, ZFF+18, Jim09].
Neuromorphic [LCS+19].
next [OAM19]. no [HL07]. NoC [HWX+13].
NoC-based [HWX+13]. NoCMsg [ZM15].
NoCs [WYJL10]. Noise [AAI+16]. Non [DJL+12, HK14, YKM17, BZS13, WDXJ14].
Non-Java [YKM17]. Non-monopolizable [DJL+12]. non-SSA [BZS13].
Non-Uniform [HK14]. non-volatile [WDXJ14]. Nonlinear [SRC16].
nonuniformity [WA08]. Nonvolatile [SPM17, DXMJ11, DJX13]. Not-taken [PS12].
Novel [LMZ18, ZFF+18, ZWL+19, CCZ13].
NUCA [GFD+14, HK14, LJM12].
NUCA-L1 [HK14]. NUMA [RSK+18].
NUMA-Aware [RSK+18]. NUMA-Caffe [RSK+18].
NVM [WSC+13]. NVM-based [WSC+13]. NVMs [PM17]. NVRAM [ZLYW18].

O [DCP+12, RHLA14]. Object [YLW08, ZLYW18, TDG13, VED07, WM10]. objects [WWY+12]. oblivious [CYXF13].
Off [ACA+19, BKM+17, AVG12, AGVO05].

O-CHIP [BKM+17]. Off-chip [HNKK17, MTK18, MGA+17]. offset [CZ07].
On-Chip [VFW16, JPS17, BKA13, CK11, EE11, LNLK13, SMK10, TDG13, XCC+13].
Online [BSS07, CG15a, CEP+16, TTS19, WAST16].
on [WYJL10]. OoO [MAD17]. Open [BGG+15]. Open-Source [BGG+15].
OpenCL [WGO15]. OpenMP [PC13].
PC17, YCA18. OpenStream [PC13].
Operating [HK14]. Operations [BSS17, GGK18, LP17]. opportunities [KGG10, XM04].
Optical [CWW+16].
Optimal [CH06, CBD15, GKI3, KCA+13, Mic16, SW17b, SWH09, ZGP15, KCKG14, XCO6].
optimising [AKB+14]. Optimization [AYL+18, ABP+17, BS17, DAP+15, FXC+15, GGS+17, GGS+19, KTA16, LVR+15, MNC+16, RMA14, VFW16, YKM17, YDL+17, ZCF18, CFH+12, CXW+12, CYXF13, DJX13, FT10, GHS12, HS06, HEL+09, HVJ06, JPS17, KHW+05, KWTDO9, P13, SL12, SSR13, SL09, VV11, ZFT+18, ZWHM05, ZCS06].

optimization-phase [KHW+05].
Optimizations [EPS17, JMK16, ZWS+16, LCH+04, LHY+06]. Optimize [BDH16].
Optimized [PKPM19, GS12]. Optimizer [LYK+15].
Optimal [AP17, BJWS18, DGGL16, HHC+16, PAVB15, RLBBN15, STLM12, TJKM15, WDX15, YXW12, YRHLB13, ZSLX13, ZFF+18, YXK+12, WKO9].
Optimum [MP04].
Ordering [GVT+17].
Order [BEE15, CAY+18, HYAM16, MAD17, PS15, SPH+17, BB04, KWTDO9, SJA12, YJTF13].
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Oriented
Out-of-Order

Overhead

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Overhead

Overlong [ZWL+19].

P [DDT+17]. Packed [BSL17]. packet

Page [WZG+19, LMJ13a]. Parallel

Parallelism [CCM+16, CG15b, DHK18, GVT+17, HWJ+15, LMZ18, MGA+17, NKH16, SDH+15, YBSY19, ZX16, EE09, FLG12, PCT12, SLA+07, WTP14].

Parallelization [BCM11, GGS+17, KPP+15, DC07, LT13, PKC12, YRHB13].

Parallelizing [NKH16]. Parallelogram

ZGP15. Parameter [MG15]. parametric

SLM12. Pareto [SW17b]. PARSEC

[CCM+16]. PARSECs [CCM+16]. parser

[ZBH+13]. Parsing [PCM16, ZBH+13].

PARTANS [LFC13]. Partial [ZX16].

partially [GGFPRG12, JLER12]. Partition

[WWC+16, WJXC17, WO13]. partitioned

partition [RP06]. Partitioning

[CG15b, FLG12, SBS16, SLJ+19, HAJ+12, LCL+14, ZDC+12]. Pass [SPS17]. Passing

[BM15]. PATCH [RBM10]. Path

ZX9, TS05. paths [PS12]. pattern

[CXW+12, PRMH13, VW11].

pattern-oriented [CXW+12].

pattern-specific [PRMH13]. patternized

[KCP13]. Patterns [CSK19, DDT+17, HJW15, LTX16, HLRR+13, JSH09].

PCantorSim [YJJ+13]. PCiE [MTK18].

PCM [LWF+16, RJS18]. penalties

[Hl07]. penalty [GW08]. pending [CA11].

per-task [LMJ+13b]. Per-thread

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