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Title word cross-reference

2 [VSS+13, Wal18], 256^4 [IKY+10]. 3
[ARR99, BGM15, CSGM17, GGS01, HSLK11, KC18, PR95, THL88]. ^2
[AMC+18]. ^3 [KPST18]. a [TSK88]. d = 2
[BRT+92]. CH + H_2 ⇔ CH_3 ⇔ CH_2 + H
[ASW91]. CuO_2 [SSSW91]. ILU [SZ11]. k
[TNLP13]. K_2 [CBW95]. LU
[BLRR01, DD89, DD91, YZC+15]. M × N
[BYCB05, DP05, JLO05]. N
[HJ96, SWW94, DAB+12]. * [NC18].

-Body [HJ96, SWW94, DAB+12]. -D
[ARR99, GGS01, PR95, THL88].

0th [RAGW93].

100 [IHMM87]. 100k [INY+14]. 10P
1A [HXW+13]. 1s [McN89].
Adapting [DE03]. Adaptive
[AH93, CKPD99, CW05, EDSV06, FSC+11, HT04b, JSSZ09, Kal09b, RV15, SR05, TRS13, VR00, Wri12, LST15, LPB+16, FSC+11].
Adaptive-CoMPI [FSC+11]. Additive
[PR95]. Address [MHW15, SBG10].
Addressing [SWA+14]. adjoint [YWL+14].
adjoint-based [YWL+14]. Administration
[SDA+01]. Adsorption [CH94]. Advanced
[Ano87a, MA15, TC10, Don89]. Advances
[KKDV03, KKD05, LK10, NPT+06, BC14].
Aerodynamics [YM91]. Aerospace
[MAB07]. Agenda [Ano87b]. agent
[DD91]. 860 [HGD91, KR95]. 87545
[Bus87].
Algorithm
[AH93, AEPR92, ARR99, BCCL09, Bai88, BMT89, CBW95, CBV97, DB00, GJMS88, GCD97, HA91, HT04b, IJ93, JL89, KKY+90, KC92a, KC92b, LP10, LRBS89, LJC+10, Mar87a, Mor89a, SCB+95, SD87, TRS+10, UF89, WCE95, ABH+18, AHB+16, GMB15, DSH+16, GHL15, KWEF18, MJGL13, NMAE13, UZM+14, YZC+15, YB12].
algorithm-based [YZC+15]. Algorithms
[AM00, BG02, Cha88, CDT05, CAK+07, Fro91, GD09, GKMTO0, Hdv18, KLJ87, MS09, MPS15, NKS9, NKS9, PM+04, RRV06, SC04a, Shn88, Wad99, CdlVL+18, ESW+12, FTB13, NCC18, McR87]. aligned
[RWM17]. Alinea [MA15]. All-Gather
[TRS+10]. All-to-All [BJ92]. Alliant
[DD91]. Allocation [AAF+01, FBBC03, WPBB01, YB07, Jea13, MRD+15, SPNB14].
Alpha [KAP+04]. Altera [RGB+18].
Alternative [SWHP05]. Amazon [Pap11].
AMBLE [HBSP08]. Amdahl
amines [PUR94]. ammonium [PUR94]. Amplitude [BGK+90]. AMR [RV15, SZC12]. analogs [PUR94]. Analysis [ACD07, BBC+00, Del93, DH96, DEF08, EGMP93, Eyr06, GHM+10, GNB10, HVWS09, HVSW09, HLW00, IMW+13, IHHM87, Ish91, LM03, LWL05, MB87, Mc90, RS03, SQQ08, SCB+95, SE92, SC09, SFGC09, SBG10, SBS06, THDC09, WBF04, YRA+02, ZRC+06, BBHD14, BCLP17, IMH+11, IMH+12, JKD+11, LH18, MPD+12, MP18, MCR+17, MJ16, MRD+15, PF16, STP+13, SDJ17, TKA+17, TDM+17, LS90]. Analytic [MA89]. Analytical [FFR+10]. Analyze [KKB98]. Analyzers [Ano01a]. Analyzing [BRU05, NC18, UZM+14, WPBB01]. Anatomy [FTK01, KWEF18, YFH+96]. Andabyss [Spr06]. Animal [UB95]. animated [LSS93]. Animation [SS89]. Annex [Ano02f, Ano02h, Ano02g, Ano02i, Ano02j, Ano02e]. Announcements [Ano92a, Ano92c, Ano92d]. Aperture [MPG93, ZCZ+13, SVBP13]. API [BH00]. Appendix [Ano01a, Ano02f]. Appendixes [Ano01a]. AppLeS [SBWS99]. Application [AS00, Bar09, BKR098, BCC+01, BWB+10, BPK+07, BB02, CGW09, DW97, DFMD04, FTB13, FSC+11, GHM+10, GHZ10, Kal09a, KKB98, KS09a, MSHPV18, Mic09, MS95, NKR90, OCC+08, PFK09, PCH+10, SC09, TM99, TKA+17, CMS+11, DEL+12, MCR+17, Osz16, SHK+18]. Application-based [MSHPV18]. application-level [DEL+12]. Application-tailored [FTB13]. Applications [AGR+03, Ano91b, Ano92g, Ano92e, Ano92f, Ano93a, Ano94a, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, BGG05, BP01, BDP01, BV11, BM12, BM13, BBH+06, BRU05, BJ92, BJK07, Bus87, CBL10, Cot04, Cza03, Dar99, Dec10, DH96, DE03, FGC+05, Fra05, GKP97, GMLP08, GG14, HT04a, HLW00, HRM89, JMC05, KBA00, Key09, KUE+00, LDGR03, Lee03, LM03, kLCCW07, MKG90, MYCR06, Mar87a, MAB07, ME14, MYC92, Mor89b, NFK98, NPT+06, RBMF87, SC04b, SNNM92, SVN09, SBG10, SKC10, TXD+07, TLG98, TAR+08, Wal03, WWA+11, WBF04, ZOF90, dSSB+08, ASHH16, Ano94c, ABD+18, BH17, BRGR11, BPR18, BSQ+14, BEK+18, BGB+18, BG11, CDRV15, CBD+17, DAB+12, DMQS12, ECG+13, GCS13, HGWN14, JRT16, KPR17, LRG+16, LWT+11, MGB12, MCR+17, MDH+18, MCU+13, PH91, PNFC16, RV15]. applications [SDJ17, SKZ+18, SLG95, SMZ+18, TNLP13, THG+11, UZM+14, WDW+12, Ano98b, Ano99, Ano91a, Ano98a, Ano00, Ano01b]. Applications-Information [Ano92g]. Applied [vLR+03, BE17]. Applying [Dem90, LDGR03, MBHF15]. Approach [BYCB05, DZ07, FBW+87, KS09b, LDB+06, NTKP06, Sha88, uITH07, Spr06, DCM+17, FTB13, GS18, HGWN14, MGB12, MP18, MJ16, PNFC16]. Approaches [SWHP05, MJ13]. Approximate [Cho01, HFV+12]. Approximation [DGJ09]. Aqueous [PRT90]. Architectural [Gro03, TXD+07]. Architecture [BAA+06, Hua03, HWP03, Ish91, KBA00, KFM+10, SC04b]. Architectures [BFL99, GD09, HD05, HaV18, HLW00, HSLK11, MS02, RWS13, RS03, SSSQ08, BSK14, HFV+12, IMH+11, IMH+12, JO99, KILL13, LNSMA15, STP+13, Udd17, VOL+14, YFS+14]. Area [DFP+96, MYCR06, MAJS03, NBB+96, Rad18]. Argonne [Don89]. ARION [HLP+03]. Arithmetic [BSBF89, Gro03]. ARMC1 [NTKP06].

Chemistry [ATD+88, Bro88, EDS95, Mar88a, NFK98, TMW+99]. Chesapeake
[WLVL+96]. China [SKC10]. chip
[KDH18, VEMR17], chips [LTPK17]. Cholesky [Jea13]. Chroma [JC12].
Chromodynamics [Liu90], CICE
[CMHB15]. Circular [AEFR92].
Circulation [KM95, LSL05]. CLAS
[DZDR95]. Class [McN89]. Classification
[Tho90, WEPB12]. Client [kLCCW07].
Client-Side [kLCCW07]. Climate
[CC95, KJH96]. CM
[ANR97, DSH+16]. Clusters
[AWS01, BG09, DVB05, CAG+07, CWG09, CDCV06, DT99, DT11, DT17, Gir02, KS05, LDB+06, MWC+05, PPK+04, PC08a, SG09a, Ste01, YB07, Cvg11, DTD14, EEL15, HLS+17, JRT16, JC12, MBC+18, Pap11].
CM [CC95, KJH96]. CM-2 [CC95]. CM-5
Co [ABD+18, GD09, Mat03, BPR18, Jon12, UCZ+15]. Co-Design [GD09, UCZ+15].
Co-reservation [Mat03]. Co-scheduling
[ABD+18, Mat03, BPR18, Jon12]. Coarse
[BGB+96, DZRR99]. Coarse-Grained
[BGB+96, DZRR99]. Coastal [Cow08].
Code [ADS9, AJL+97, BBA87, BH00, CK01, CEL+07, Del93, DZDR95, HL10, HE01, LFW05, MMD98, MS02, MT89, MFB+11, MSK92, PPR03, Pla09, YW93, BSH+16, DAC+14, FU12, HIT+14, INY+14, JK+11, MBvG13, MG+15, SSR+14, TRS13].
Codes [AS00, BGB+18, CL95, DL97, IHMM87, MCW+00, Ren92, SWW94].

coexistence [ABA+18]. Coherent
[WLVL+96, HBS08, NBF+96]. Collaborative
[YY+96]. Collapse
[BBD06, FCLG07, KLM+10, LCZ+15, TRG05, VFD04, KMH+14, SCB14].
Collectives [WLH16]. Collide [NBF+96].
collision [VAL+14]. Color
[IMH+11, IMH+12, Tho90]. Color/Albedo
[Tho90]. Columbia [MAB07, HBC+08].
Combatant [BCS11]. combination
[ASHH16]. Combinatorial [BG11].
Combined [YK04, BLO18]. Combining
[Gir02, Mon12, SCB14]. Coming [de 89].
commercial [MRD+00].
Commercialization [SG09b]. Common
[BMG07]. Communication
[BCG+10, BYCB05, BS+07, BBDR95, HC10, INY+14, JLO05, LR09, LRO10, LRT07, NTKP06, PLS05, QH08, RW03, SWHP05, TRG05, TGT05, BBH+13, DGB+14, IYK16, OGM+16, RM17].
Communication-overlap [INY+14].
Communication/Computation
[BBDR95]. Communications
[ANO87e, BMR06, Bus87, VFD04, SCB14].
Communicators [GDF05]. Community
[DBA+09, HBSM03, CJK+05, DV+12, DEE+12, DJC05, ESW+12, HVK05, JLO05, MS05, MW12, TD08, WD05].
Comparative [MOK00]. Comparing
[BF01]. Comparison [BSK14, CAK+07, Gen88, HC10, Jon92, KM95, Mat95, SR98].
Comparisons [Mak00]. Compensation
[MSW07]. Co-MPI [FSC+11].
Compilation [BJK07, CW05, PG18].
Compiler [CW05]. Compilers
[ANO01, YHG+07]. Complete [LW01].
Completion [CY08]. Complex [ASHH16, Dar99, GKB93, GHZ10, PD04, SCG17].
complex-entry [SCG17]. Complexity
[BMR06, BGB+96, DF08, Spr06, BRGR11].

**Component**
[BAA+06, DF08, KBA00, KFM+10, MGB12, PGTS10, PPR03, SVN09].

**Component-Based** [PGTS10, MGB12].

**Components** [CTD+05, WSD+14].

**Composing** [HGWN14]. composite components [NMAE13]. composite [LPB+16].

**Composition** [Cot04, DLB07].

**Compositional** [AWS01, BBD00, KR94, KR95].


**Compilation** [BBDR95, CBW95, Cha99, ISD89, GWKN08, Her88, HS93, JP93, Nag89, SSNM92, Ste09a, Ste09b, Tis97, WSCZ05, SVBP13, WEPR12, ABB+94, KT94, TR92].

**Computational** [Blo87, CD97, Cha88, CDH+97b, DVW+12, DFMD94, DGJ09, DT99, DGH+93, Duk91, EGMP93, FBW+87, Gen88, HBSM03, HOPPB2, HL10, JL89, NKF98, Num04, PK04, RBMF87, SK90, SG07, SBWS99, SW04, TMW+99, VR00, Wi92, WPBB01, YMY91, YK07, Ytt97, AFL+18, BSW+14, CGGC+16, CBA+18, JKWB18, TBA+17, VRRL18].

**Computations** [BBR10, Ber92, Duk91, MA15, MCG04, SD87, BCY11, BCLP17, HDL+15].

**compute** [KL13]. Computer [BEF+95, Bus87, CKE08, Cla91, Don89, GL09, HKKK88, HD05, JL89, KT99, MM90, PS87, TWK87, VCS9, WBMY90, AHB+16, BAML+16, BE17, HIT+14, HLS+17, INY+14, KMM16, Kum89, MBHF15, PNFC16, TAM+16]. Computer-Aided [MM90].

**Computers** [Ano87f, BOD+91, BBA87, BH99, CDH+93, CDP+94, ED895, FG97, FFP97, GP93, Gun00, IS96, Jon92, Meu88]. Computing [ATN+00, Ano87a, Ano87d, Ano94c, Ano95b, Ano98b, Ano98a, Ano99, Ano00, Ano01b, Aus92, BV11, BM12, BM13, BGI+99, BAA+06, BRT+92, Bus87, CWH99, DF18, Dar00, Dem90, Don89, DT99, DMT01, DT11, DT17, DCL+08, Ede93, EDSV06, EW06, Eyr96, EFG+05, FGJ+04, Ga88, GMH+10, GW910, GNTLH97, GL97, HME90, Her99, HZ99, JSSZ09, Joh01, KDH11, KEO4a, KT99, Kec04, KHK+09, KS05, LS90, LJC+10, LD07, MPS15, Mah90, MYCR06, Mar87a, Mat95, ME14, PP90, PA11, Rao02, RAGW93, Sab91, Sal87, SKB01, Ste01, Ste04, SPF02, SKC10, THTC09, Wal03, YBA+03, ABH+18, AMB+18, BE17, BLOR18, BAP+12, DTD14, DHL16, DAC+14. ECG+13, EKD+12, Fem90, FKA+17, GR17, Har11, IYK16, IFA15, JDS+17, KT94, LBB17, MC9+13, PPC+16, SWA+14, STS17, TNPL13].

**Computing** [VSH14, WZHG17, ZKRA14, Lee03, Ano94a, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a].

**Computing-** [Ano94c, Ano95b].

**Computing/Numerical** [THDC09].

**concurrency** [DGB+14]. Concurrent [AH93, BMWD87, Fro91, BRGR11].

**Conference** [Gaf88, OL05, KKD03].

**Configuration** [AEPR92, LTPK17, LBB17].

**Configuring** [PP6+04]. Confined [ACG+90]. Confinement [BGB+18].

**Conjugate** [AH93, CSV91, MG87, DHL16, KMKM16, PSV+16, PF16].

**conjugate-gradient** [DHL16]. Connecting [BKS+07].

**Connection** [Ano87d, Don87, BJ92, CCR95, GKH+91, HZ91].

**Conquer** [Cza03].

**Consensus** [KDE18].

**Consistent** [KS09a].

**Consortium** [G9].

**Constant** [MP94].

**Constrained** [FSS13, LJC+10, NKR90, IK18].

**constraint** [DAB+12]. constraint-based [DAB+12].

**Constraints** [CY08, GSHL03, BLOR18, LCZ+15].

**construction** [PS12]. consumption
[BLOR18, CGGC+16]. Contaminant
[ABF+99]. content [LFB+15, MRD+15].
content-aware [MRD+15]. Context
[KDH11, QH08, YBA+03, CZR+11].
Context-Aware [YBA+03].
context-based [CZR+11]. Contributors
[Ano91b, Ano91a, Ano92g, Ano96c, Ano96a,
Ano97b, Ano97c, Ano98a]. Control [AK91,
AK93, Dar00, DFH+96, VR00, WDW+12].
Controlled [DS+91]. controlling [OF17].
converge [CCBL18]. Convergence
[BRR10, DFS+05]. convex [SH93].
Cooperative
[DBA+09, DCL+08, kLCCW07, IK18].
Coordinate [YBA+02]. Coordinated
[FP02]. coprocessor [VEMR17].
coprocessors [HLS+17]. Copy [SWHP05].
CORBA [PPR03]. Core
[Bri09, DFS+05, MS05, BBG+14, BH12,
CAE+13, DEE+12, KDH11, KILL13,
LM+12, LDW+12, LNSMMA15, MSPS15,
PSV+16, SSR+14, TKA+17, Udd17,
VEMR17, VOL+14, YFS+14, GLZS14].
cores [FU12, INY+14, IYL+16]. Cornell
[Mer87]. correction [YFS+14].
Correlating [CS14]. correlation
[CLG13, GHL15]. Correspondence
[BH09, IS96, PTGb02, WL892]. Cortical
[WW92]. Coscheduling [BL99, CAK+07].
Cost [LJC+10, PPK09, TR17].
Cost-Constrained [LJC+10]. Coulomb
[DGD+04]. Coupled [HAF+96, IKY+10,
JDD18, KT99, LJO05, PK04, KC18].
Coupler [CJ+05, CVJ12]. Coupling
[HD05, JLO05, LJO05, PPR03]. CPL6
[CJ+05]. CPU
[BL99, GHL15, HTD+14, SHK+18].
CPU-GPU [HTD+14]. CPU-MIC
[SHK+18]. CPUs [KDH11, TKA+17].
Crash [HTSK90, CEL+97]. Cray
[ABF+08, AEPR92, DD89, DD91, Del93,
GCL93, LT88, Ma00, MYC92, MSK92,
THL88, YW93, ABF+99, DH96, Lai93,
McN89, SBBS06]. Cray-1s [McN89].
CRAY-2 [DD89, DD91, GCL93].
CRAY-T3E [Ma00]. creation [KILL13].
Creutz [BRT+92]. Crisis [BE07]. Criteria
[BKRS09]. critical [SDJ17]. critical-path
[SDJ17]. Cross [PLS05, CLG13, WVL+16].
cross-bundle [WVL+16]. cross-correlation [CLG13].
Cross-Platform [PLS05]. crowd
[VOL+14]. CRPC [CDP+94]. crucial
[SZ11]. Crystal [Cla91]. crystalline
[HXW+13]. crystallisation [WSD+14].
Crystallography [CDH+93]. CUDA
[DSH+16, GDK15, SDJ17, ZZG+14].
CUDA-accelerated [GDK15].
CUDA-enabled [DSH+16]. CUMULVS
[GKP97, KWB06]. Current
[Cap09, GFP05, GCSK13, LVA+13].
CYBER [ABAS87, Mnc89]. cycle
[AHB+16]. CYDRA [HRM89]. CYDRA-5
[HRM89].
Divisible [DLG06, MYCR06].
Division [Bus87, Don89a]. DNA
[DTDP14, HB90, MP18, PRT90]. Docking
[GHM+10]. DOE [HB803]. Domain
[Cha88, CDH+97b, GCD97, Lai93a, Men88, WCD99, CSGM17]. Domain-Specific
[CDH+97b]. Donation [TCW06].
Donation-Based [TCW06]. Double
[PRT90a]. Drift [BFNV07]. Drift-Diffusion
[BFNV07]. Drive [HE01, PPS09]. Driven
[CHZ02, DCL+08, YB07, DAB+12]. drug
[MPSI15]. Dual [BBC+00, Ish91].
Dual-Level [BBC+00]. Duration [CY08].
DV [TKSK88]. DV-X [TKSK88]. Dynamic
[AAF+01, ABAS87, BCM+03, BGO0, CY08,
DLY+98, DFM94, GFD05, HWP03.
SCB+95, SVN09, TM99, LGDH16, MJD16,
SCB14]. Dynamical [DFS+05, FBW+87,
HT04b, MS05, SWW94, DDE+12, LMT+12].
Dynamics [ACD07, BMT98, CGB+94,
Cha88, CWG90, DQFW90, DGD+04, Gen88,
Gn00, HLI0, HSFLK11, JL89, KYY+90,
MP94, Nak99, NHG+96, PRT90, RBMF87,
SK90, ABH+18, CHW+15, HXW+13].

E-Science [HWP03, HT04a]. Early
[GKN+96, GNTLH97, HGD91, Kal09a,
SLG95]. Earth [DVW+12, ESW+12,
C10+05, CVJ12, DEL+12, IKY+10].
earthquake [AHB+16, CMS+11, BAM+16].
earthquake-cycle [AHB+16]. EC2 [Pap11].
ECG [Arn07]. ECJ [CdVL+18]. Ecological
[WBG06]. Econometric
[ABAS87, GP03, PS87]. Economic
[BE07, LC90, NKR90, SG07].
Economic-Based [SG07]. Economics
[AQ1]. Ecosystem [WBG06]. Edgy
[CK01]. edge [CSGM17, Rad18].
edge-emitting [Rad18]. edge-FEA
[CSGM17]. editor
[DT18, DT17, WD18, dA03]. Editorial
[CDH+97a, Don92, DT09, Mar92, Mar94,
Wit92]. Editors [BM13]. Education
[Mah90, Sab91, KT94]. Effective

[BCK+89, Pan97]. effectiveness [TR17].
Effects [WBMY90, Hai93]. Efficacy
[GWKN08]. Efficiency
[ABAS87, DFS+05, GHM+10, ATD17,
ECG+13, JdSA+17, MJD16, UZM+14].
Efficient [ACG+90, AEPR92, BR17,
CDG+14, DMT97, GML80, HS93, KCS2a,
KCS2b, KUE+00, LRO9, LRO10, LP10,
MG87, MFP+17, OW08, SC04a, TD08,
LC90, NKR90, SG07].
eigen-solver [HTD+14]. Eigenvalue
[HS93, Tis97, UF89]. Eigenvalues
[HC2a, HC2b]. Elastic [ACD07].
Electromagnetic [DP+97, CMN12].
electromagnetics [CSGM17, OGM+16].
Electromagnetism [BGG05]. Electron
[FFR+10, KYY+90]. Electronic
[FWZ91, TMW+99, HHT+14, HHT+14].
electrophysiology [BSW+14].
Electroweak [BG+90]. Element
[AJL+97, BBA87, DFS+05, EGG05, FSN08,
GCD97, KM95, MMD8, MS02, THC+96,
de89, AFL+18, BSW+14, DDE+12,
MGS+15, Mon12]. Eliminating
[HME90]. embedded [KPR17, KK01]. Embedded/
[KK01]. emergency [GDS17]. emerging
[HFV+12, IMH+11, IMH+12]. emitting
[Rad18]. Empirical [VD04, CBM13].
emulation [BAP+12, LST15]. Enabled
[CD06, CD97, CBB+04, DD06, MMW+08,
DHS+16]. Enabling
[AGR+03, DGB+14, FK01, Ste09b].
Encoder [BKRSR09]. Encoding [DLY+98].
End [BV11, GHM+10, LD07, KNK98,
PA11, RO02, SC09]. End-To-End
[GHM+10, RO02, SC09]. Endangered
[BB02]. Endmember [HC08]. endpoints
[DGB+14]. energetic [GSK+15]. energies
[PR94]. Energy [BEH+90, EGC+13,
HTSK90, IHMM87, LTPK17, LWT+11,
MIR90, SGFC09, YCH90, ZOF90, ATD17,
BRGR11, BLO18, JdSA+17, Kit90].
Energy-optimal [LTPK17]. Engine
[DCL+08, HBSP08, WZHG17, SS10].

Environmental [DLY+98, TMMR10]. Environments [Ano01a, CWHP99, CDH+97, DD06, Dec10, DFH+96, DCL+08, Eyr06, FSS13, Gan88, HBSP08, Mat95, MA9, RF01, THC+96, WvNM+06, ADMP18, CCBS11, HI12, HI13, HI15, NC18]. Epidemic [KDN18]. epidemiological [BEW16]. Epiphany [VEMR17]. epistasis [WLG+18]. Equation [BFL10, BEF+95, Fro91, IKY+10, Key09]. Equation-Based [Key09]. Equations [Meu88, SB100, SW1687, KS89, RMS+18, ZZG+14]. Equilibration [NKR90].


ETA [DD89]. ETA-10P [DD89]. Ethylene [DVC88]. Eulerian [INT+14]. European [SD89, MHW15, PHB04]. EUROPVM [OL05]. EUROPVM/MBPI [OL05].

EuroPVM MPI [KDV03]. EV7 [KHP+04]. evacuation [GDS17]. Evaluate [WGI90]. Evaluating [BBDR95, GFD05, LRG+16, VCS9, YFS+14]. Evaluation [ATN+00, ABF+08, Ano87b, BCK+99, BIC+10, BFN07, BG02, BDG+00, CDQ04, CLP+99, KHP+04, RBL08, SWHP05, WOG95, YIN+11, AKP+18, BBG+14, HIT+14]. Evaluations [PPR09]. Event [NRR97, BEW16, DAB+12]. event-based [BEW16]. event-driven [DAB+12]. Events [BG00]. Eviction [BH06]. Evolution [DAC+14, LBP18, WJS+90]. evolutionary [CdV+18, HDV18]. Exact [ZK93]. Example [NNB+96]. ExaSAT [UCZ+15]. Exascale [AF09, Cap09, CGG+09, DBA+09, DBM+11, GD09, GL09, Her09, Kai09, KS09a, KS09b, LAV09, Luc09, Lus09a, MMN09, PPS09, SG09b, SC09, Ste09b, BCR+14, SWA+14, UCZ+15, VFI+15, YB12]. Excited [WLC91]. Excited-State [WLC91].


Experiences [DD06, GKN+96, Reu92, ZKRA14]. Experiment [HME90]. Experimental [BCC+06, EGMP93, JW06, KCB98, KJL87]. Experimentation [Ano87a].

Experiments [AAF+01, AK91, Gir02, PR95]. Explicit [WB06]. Exploiting [Bri10, SCR11, WWA+11, LFB+15].

Exploration [KPM+96]. Explore [JLL04]. Exploring [CBD+17, HAF+96, IMS16].

Expression [RS03]. Expressions [BBDR95]. Extended [Ano02b].

Extending [GRC08, Pap11, LRG+16].

Extendible [CJK+05]. Extension [SVN09, ABH+16]. Extraction [CBL10, HC08]. Extreme [Her09, Key09, KC92a, KC92b, PSS15, ZKRA14, AMB+18, BEK+18, DCM+17, KDN18].

Extreme-scale [ZKRA14, AMB+18, BEK+18, DCM+17].
face [CdVL+18]. Facility [Ano87a, Don89].
FACOM [IHIM87]. Factor [DH96].
Factorization [DD89, DD91, Jea13].
factorizations [DEKV92]. Failure
[GCSD13, KS05, BBI+13, BBG+18,
KDNE18]. failures [Swa+14, TNLP13].
Finite [CKPD99, MBHF15]. Fast
[BGM15, BEW16, BM17, CvG11, DIB00,
PS12, SWW94, IYK16, KDH18, SCR11,
TKSK88, TDM+17, YB12, CKE08, KNP+87,
LDW+12, MJ04]. Fault [BHK+06, Cap09,
FD04, FGC+05, GKP97, GL04, JSSZ09,
KWB06, WvNM+06, ASHH16, LRG+16,
MSHPV18, SKZ+18, SMZ+18, YZC+15].
fault-tolerance [SMZ+18]. Fault-Tolerant
[BHK+06, FD04, WvNM+06, ASHH16].
faults [RMS+18]. Faulty [LK01]. FEA
[CAGM17]. Feasibility [KRD+94, KR95].
Feature [PTGB02, STP+13].
Feature-based [STP+13]. features
[CH13, IMS16, PNFC16, PUR94, ZKRA14].
February [Sc92]. federation [Har11].
Feedback [CGB+94]. Feedback-Scaling
[CGB+94]. Fermi [NTD10]. Fermions
[ZK03]. Fernbach [Mar91]. FETI [GCD97].
FFT [Bai88, GGS01, KMPJ08, Wad99].
FFT-Based [GGS01]. Field
[HC08, HLSK11, PUR94, VSHN14]. File
[BIC+10, GCCC+03, LRT07, kLCCW07,
HLW+16]. Film [MD99]. films [GSK+15].
filter [LGDH16]. filtering [LMT+12].
Financial [BE07, HZ91]. Finding
[FCLG07]. Fine [ACM88, BBG+10, LH18,
WvNM+06, HTD+14]. Fine-Grain
[ACM88]. Fine-Grained
[BBG+10, WvNM+06, LH18, HTD+14].
Finite [AJL+97, BBA87, CC95, CBV97,
EGG05, GCD97, KM95, MMD08, MS02,
MS05, PLS05, THC+96, THL88, de 89,
AFL+18, BSW+14]. Finite-Element
[MS02, BSW+14]. Finite-Volume [MS05].
First
[DQFW90, GKN+96, TMWS91, HIT+14].
first-principles [HIT+14]. fixed [BSK14].

Flames [EDS95, SG91]. FLASH
[DAC+14, JKD+11]. Flexible
[GMLP08, CVJ12, DGB+14]. Flink
[KWEF18]. FLO67 [WLB92]. Floating
[BSBF89, LH18]. floating-point [LH18].
flood [HPW+16]. Flow
[ABF+99, DD06, HKK88, PGTS10, RKKC90,
SS89, SK90, KDH18, LSS93, WDM+12].
Flowfield [MKG90]. Flows
[CB95, GMG01, MYC92]. Fluid
[Cha88, DFMD94, Gen88, HL10, JL99,
KT99, LWL05, PGTS10, RBMF87, SWW94,
SS89, SK90, YW93, KC18, LSS93].
Fluid-Structure [KT99, KC18].
Fluorinated [DFC90]. Fock
[CLM+16, KKCB98, TMW+99]. focused
[JRT16]. Footprint [JMC05]. force
[PUR94]. Forecasting [MHW15].
Forecasts [MHW15]. forests [PNFC16].
format [GG14, GGO16]. Forming [CM97].
Fortran [KR95, DL97, KR94]. Fortran90
[LJO05]. Forum [Don02a, Don02b].
Forward [AK93, LSc09, THL88].
Foundation [Web91, Bls87]. Four [Tho90].
Four-Band [Tho90]. Fourier
[KNP+87, LDW+12, MJ04]. FPGA
[HC08, MHS11, PC08a, RGB+18]. FPS
[LT88]. Fracture [BG00, LPB+16].
Framework [CAK+07, DGJ09, IYV04,
PGTS10, SSB+05, SB04, TMMR10,
vLRA+03, FKA+17, MBC+18, PPC+16,
SE12, SMZ+18, YWL+14, CTD+05].
Frankenstein [WIt92]. Free
[MT89, LBB17]. Free-Lagrange [MT89].
freedom [TAM+16]. Frequency
[TC10, CGM17]. Frontwidth [BMWD87].
FTS [BE18]. Fueling [Her91]. Fujitsu
[Ish91]. Full
[AEP12, JRT16, LK01, RAB+15, THC+11].
Full-wave [JRT16]. Fully
[HR97, YW93, CH13]. Fun [RAGW93].
Function [ODD07, PPK09, ZOF90].
Functional [LR07]. Functions [LS06].
Fundamental [MR90]. Fusion [ACG+90].
BGB +18, DSD +91, FWSW02, FP02, YK04. Future [BSBF89, HBSM03, Wil87, BAP +12, DPA +18]. FV [LMT +12]. FV3 [SDF +17].

FVCOM [Cow08]. FX [DD91]. FX /80 [DD91].

G [MCS +20]. G2 [Cot04]. Galaxies [Her91, NBB +96]. Games [EGMP93].


general-purpose [BE17]. generalized [HT +14, GLGBL +11]. Generation [DE03, HT04a, KMP08, BAP +12, TRS13, ZKRA14]. Generator [CMS +04, DL09].

Generic [CAK +07]. Genetic [RS03, NMAE13]. genome [GBK +15].

gnome-wide [GBK +15]. genomic [MBC +18]. Geodesy [BG90].

geographically [CvG11]. geophysical [CMN12]. GFLOP [SBF90]. Glass [YSSN90].

Global [ATN +00, AID89, CZR +11, DBA +09, GSS05, MHW15, SBG10, TH09, WBSMY90, DFT +15, TAM +16, WDH +15, NPT +06].

Global-Address-Space [CBG10].

Global-aware [CZR +11]. Globalized [GBK +10].

Globaly [SBG93]. Globus [FK97]. Glove [BdF93]. Glow [YWW93].

Glouns [BD +01]. Beh +01]. Going [Her09]. Goodput [BLL99].


GPU [ATL +15, BGM15, CSGM17, CS14, EEL15, GHL15, GKKW05, GGO16, HTD +14, JCC12, JKBW18, KTWL18, LPB +16, MPD +12, MJGL13, OKTR11, OF17, PS12, PNN +16, RV15, SZC12, SPTT08, SE12, SKS +13, WDV +12, YLL +14, ZZZ +14].

GPU-accelerated [CSGM17]. GPU-based [ATL +15, JKBW18, MJGL13]. GPUDirect [OGM +16]. GPUs [ATD17, AKP +18, HDL +15, HPW +16, PF16, TKA +17].

Gradient [AH93, CSV91, MG87, DHL16, KMM16, PSV +16, PF16]. Gradient-like [CV91]. GrADS [BCC +01]. Grain [ACM88]. Grained [BBG +10, BGB +96, DZRS09, WvNM +06, HTD +14, LH18].

Grand [BEH +90, CBB +96, DSD +91, Kit90]. granularity [LQG16]. GRAPE [CKE08].

Graph [CDT05, GLZS14]. graphic [LQG16]. Graphical [DMQ12, KDO16].

Graphs [CLF87, GLGBL +11, LPS10, MA15, NTD10, RBMF87, Sal87, BE17, CLG13, GHHS15, Mon12, RDG12, WBM17, ZZZ +13].

Graphs [LK01]. Gravitational [SWW94]. Gravity [Ham91]. Great [BAM +16]. Green [OOGD7]. Greenbook [HBSM03].

Greenhouse [WBMY90]. Grid [CKP99, Lee03, SBWS99, ASH +16, BCYS11, MCR +17, PPC +16, PS12, AEG +03, AAF +01, AGR +03, BCL +09, BCM +03, BCC +01, BPP +07, BSCC03, BCC +06, CD06, CBSB01, CBB +04, CBB06, CBBS11, CY08, DCL +08, FKT01, GHM +10, GRC08, GHZ10, HSBS08, HT04a, HLP +03, Hua03, HWP03, KH +09, LM03, WWM +08, Man03, MCS +06, PPK09, PBD +01, PHB04, QH08, RIF01, RTRG +07, SWG +03, WAl03, WBB04, WBPP01, WHL03, WvNM +06, YAB +03].

Grid-Based [GRC08, QH08, LM03].

Grid-Enabled [CBB +04, WWM +08].

Grid-Ireland [MCS +06]. Grid’5000 [BCC +06]. Gridded [ZM01]. GridLab [AC +03]. GridPACK [PP +16].

GridRPC [CJ06]. Grids [DT99, DT11, JH01, MA00, VR00, MMHL11, MGB12, BKS +07, BBH +06, Dee10, Fra05, GMLP08, ILY +10, MS09, SG07, SW04, TCW06, vLRA +03].
[BCZM07, Blo87, Cla91]. Guest
[DT18, BM13, DT17, WD18, dA03].
guidance [SDJ17]. Guided
[FBBC03, BEK+18]. GWAS [WLG+18].
Gyrofluid [KPM+96]. gyrokinetic
[IMW+13, INY+14].

Hadoop [CdVL+18]. Hadron
[GKH+91, Liu90]. HAMR [WZH17].
Harbor [BBC+00]. hard [RMS+18].

Hardware
[BH06, KS09b, Spr06, HDL+15, MCD+13].
Harmonics [KMPJ08]. Hartree
[CLM+16, KKC98, TMW+99]. Head
[GKB93]. Heavy [QH08, Reu92].
Heavy-Ion [Reu92]. Helicity [DVC88].
Helium [Fro91]. Helix [PRT90].
Helmholtz [BEF95]. hemodynamics
[AFL+18]. Hermetic [YK07]. Hermitian
[RDG12]. Heterogeneity [TCW06].
Heterogeneity-Aware [TCW06].
Heterogeneous [BM13, BLRR01, BMR06,
BG09, CHZ02, CLBS17, Dee10, EGG05,
KT99, KS05, LR07, LR09, LRO10, ME14,
NBB+96, RAGW93, RRV06, VLO+08,
CMS+11, HGWN14, IMW+13, LST15,
LDW+12, MFP+17, NC18, UZM+14, BM12].
HeteroMPI [VLO+08]. Heuristic [SG07].
Heuristics [CJ06]. Hi [TDM+17]. Hi-C
[TDM+17]. Hierarchical [DD06, GJMS88,
HJ96, HWP03, PBA09, SG09a, WT99,
DHS+16, MJJD16, Wall18, ZBMK11].
Hierarchy [HL10, YK04]. High
[Ano87d, Ano87f, Ano94a, Ano94c, Ano95b,
Ano95a, Ano96a, Ano97b, Ano97c, Ano97a,
Ano98b, Ano98a, Ano99, Ano00, Ano01b,
ARR99, Aus92, Bai88, BV11, BGI+99,
BCC+01, BAA+06, BEH+90, BEF+95,
BRT+92, CWHP99, CC95, CDP+94, CSY10,
CB95, CJK+05, DTD14, DFS+05, DGG09,
DBA+09, DHL16, ISD89, EKDI+12, FGC+05,
FGJ+04, GHM+10, GHL15, GMWG10,
GSK+15, HSLK11, IS96, IKY+10, KDH11,
KBA00, Kep04a, KWB06, Kuc04, KMM16,
LST15, LPB+16, LD07, MAB07, MEMP15,
NKN+08, NF08, NTKP06, PPK+04,
PPK09, PA11, Poz97, Pra01, QWIC02,
Sab91, STS17, SKB01, Ste01, Ste04, SKC10,
TR17, TNL18, TMW+99, THDC09, Wad99,
WLC91, WLG+18, WOS08, YSP+05,
BAM+16, BLC17, BAP+12, CZR+11,
DVW+12, DAC+14, ECG+13, Fem90, GR17,
Har11, IYK16, IFA15, JRT16, MCD+13,
OMI+16]. high [PPC+16, PSV+16, PF16,
TNLP13, Udd17, WDH+15, Mar87a].
High-Cost [PPK09]. High-End
[BV11, NKN+08, PA11]. high-intensity
[JRT16]. High-Level [BCC+01, Udd17].
High-Order [CC95, OGM+16].

High-Performance
[Bai88, BAA+06, BRT+92, CSY10, DJG09,
DBA+09, ISD89, HSLK11, IKY+10, KWB06,
PPK+04, Sab91, TMW+99, THDC09,
DTD14, DHL16, EKD+12, GHL15,
GMWG10, GSK+15, KDH11, KMM16,
LST15, LPB+16, SKC10, TR17, WLH+18,
BAP+12, CZR+11, DAC+14, ECG+13,
Fem90, GR17, Har11, IYK16, IFA15,
PPC+16, PSV+16, PF16, TNLP13].

High-Pressure [WLC91].
High-Resolution [DFS+05]. High-Speed
[Ano87d, BAA+16, Mar87a].
High-Throughput [GHM+10].
High-Wave [BEF+95]. Higher [Mah90].
Highly [BCC+06, Sm90, PS12]. History
[MT89, ZC92, Bra91]. Hitachi [WOG95].
HLA [RTRG+07]. Hoc
[IBC+10, TNBG07, BG02, CHZ02].
HOMME [CAE+13]. homogeneous
[IMW+13]. Homotopy [DZRS99]. Hop
[TNBG07]. Hoshen [CBV97]. Hosted
[HBSM03]. Hough [GLGB+11]. HPC
[BBG+18, CCBL18, GCSK13, Kep04b,
KKH+09, MDH+18, SSQ08, SGFC09].
HPCC [CBB+96]. HPCG [LYL+16]. HPF
[BF01, DL97]. **HPF-Builder** [DL97].

**HPVM** [CLP+99]. **HPVM-Based** [CLP+99]. **human** [ABH+18, BE17].

**Hybrid** [BBG+10, BBH+06, CGW09, MS02, RW03, BSK14, BBG+14, CAE+13, GLH15, GGO16, HTD+14, HLW+16, LYL+16, NMAE13, STP+13, SZC12, SDJ17, SMZ+18, SHK+18, WSD+14]. **hybrid-core** [BBG+14]. **hydrodynamic** [SZC12].

**Hydrodynamics** [LRBS89, PGTS10]. **Hypercubes** [Din91, KLJ87]. **Hypercubes** [DK97, RV15]. **Hyperbolic** [FG97, RV15]. **Hypercube** [Din91, KLJ87].

**Hypermagnetic** [DF08, HC08, PC08a, HC08, BE07]. **Hypercubes** [LK01].

**Immersive** [Cho01, CTD96]. **Images** [Ald89, BRM03, CL95, CLF87, Cho01, CTD+05, FD04, HJ96, IBC+10, KLJ87, LMT+12, LT90, MC90, MS02, MG87, MS05, DDD07, SYF96, Ti97, ZZG+14, BG11, GDS17, KTWL18, LNSMMA15, MHW15, NMAE13, OKTR11, OGM+16].

**Implementations** [Ano01a, RR96, BDFVP15, KWEF18, LWT+11]. **Implementing** [CDT05, LRT07, YFH+96]. **Implications** [RES87]. **Implicit** [GKMT00, MS02, KC18]. **Importance** [BCG+10, SC09]. **Important** [TC10]. **improve** [JdSA+17, LFB+15].

**Improved** [Ano87b, CMHB15, FSN08, NTD10, DMSMG18, INY+14]. **Improvement** [SVN09, KMM16].

**Improving** [BL99, BJK07, CGGC+16, DAB+12, JMC05, KL13, MJD16, MW12, YK04]. **in-memory** [WZHG17]. **Incomplete** [ILJ93, Ka90b]. **Increased** [WBM90]. **Increasing** [PHC+10, WW92]. **Independent** [BRU05].

**Index** [Ano96b, Ano97d, Ano98b, Ano99, Ano00, Ano01b, Ano02n, Ano02l, Ano02m, HC08, BE07]. **Industrial** [DGP+97, GMWG10, LDGR03].

**inefficiency** [HGMW12]. **Inequality** [NK89]. **Inertial** [BBG+18]. **Infer** [RS03]. **inference** [KPST18]. **Infiniband** [SWHP05, OF17].

**Influence** [CK01, Ede93]. **Information** [Ano91b, Ano91a, Ano92g, Ano96c, Ano96a, Ano97c, Ano98a, BH06, CHZ02, FWSW02, FP02, IMS16].

**Information-Driven** [CHZ02]. **Information-Theoretic** [FWSW02].

**Infrastructure** [FK97, HLP+03, Wal03]. **Infrastructures** [HdV18]. **Initial** [WLVL+96]. **Initiated** [SSB+05]. **Initio** [ASW91]. **injection** [CIW17, WSD+14].

**Innovative** [MPS15]. **input** [LCZ+15, WVL+16]. **input/output** [LCZ+15, WVL+16]. **Instance** [LJC+10].

**Instance-Intensive** [LJC+10]. **instances** [TR17]. **Institute** [Duk91, EM89, IHM87].

**Instruction** [HRM89]. **Instrument** [CBB+04]. **Instrumentation** [TM99].

**Integer** [Gro03]. **Integrate** [BFLL99].

**Integrated** [CFK+94, GLZS14, MHW15, WBG06]. **Integration** [ACD07, QWIC02].

**Integrative** [KHK+09]. **Intel** [GLZS14, HGD91, HLS+17, KLJ87, KR94, KR95].

**Intelligence** [Ano87d]. **intensity** [JRT16].
Intensive [GMLP08, KUE+00, LJC+10, Mah90, ACF+11, FKA+17]. \textbf{Inter} [FWZ91].

\textbf{Inter-Semiconductor} [FWZ91].

\textbf{Interacting} [KWB06]. \textbf{Interaction} [AEPR92, Liu90, KC18]. \textbf{Interactions} [TMW91]. \textbf{Interactive} [CWHP99, CLF87, KPM+96, LSS93, RBMF87, RTRG+07, SS89, THC+96, VR00, WBFB04]. \textbf{Interchange} [YK04]. \textbf{Interests} [CdVL+18]. \textbf{Interface} [Ano93d, Ano94b, BDG+00, KFM+10, LWOB97, MP98, SLG95, ESW+12, IMS16, ZKRA14, BC14, BBH+06, BRU05, Cot04, GL04, IBC+10, KKD05, LK10, SWHP05, TGT05]. \textbf{Interference} [KCC+06]. \textbf{Interference-Aware} [KCC+06].

\textbf{Interleaving} [KNP+87]. \textbf{International} [Ano91b, Ano92g, Ano92e, Ano92f, Ano93a, Ano94a, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, Ano98a, Gaf88, Lee03, Ano98b, Ano99, DBA+09, DBM+11, Ano91a, Ano00, Ano01b]. \textbf{Internet} [EDSV06, Rao02]. \textbf{Interoperability} [Kal09b, LDB+06, EKD+12]. \textbf{Interpolation} [JLO05, SBB06]. \textbf{Interpretation} [Fei99].

\textbf{Intrepid} [BWB+10]. \textbf{Introduction} [Ano02o, BM13, DT99, DT13, Hau94, Nag93, OV13, SB18, SDS12, Ste01, Tur95]. \textbf{Inverse} [Cho01]. \textbf{Inversion} [BGM15].


\textbf{ischaemic} [SKS+13]. \textbf{Ising} [BMT89, BRT+92]. \textbf{island} [NC18]. \textbf{island-based} [NC18]. \textbf{isolating} [ALL13]. \textbf{Issue} [BV11, BM13, BE18, DT97, DT99, DT06, DT13, DT17, Fo90b, Hau94, MP98, ME14, Nag93, OV13, PA11, Ye04, BH17, HdV18, SDS12]. \textbf{issued} [CSGM17]. \textbf{Issues} [AD93, BMWD87, CLSS09, CEL+97, Dem90, EGMP93, Men00, GCSK13]. \textbf{Italy} [OL05]. \textbf{Iterated} [RR96]. \textbf{Iterative} [BDL+07, CSV91, CMN12, CM97, FFR+10, MC90, MCW+00, PHC+10, SC04b, SCFK04, AKP+18, CSGM17, CvG11].

\textbf{Jacobi} [BBDD14]. \textbf{Jaguar} [BWB+10]. \textbf{Jam} [MCG04]. \textbf{Japan} [EM89, HMM87]. \textbf{Java} [BJK07]. \textbf{Jini} [Hua03]. \textbf{Jini-Based} [Hua03]. \textbf{JISGA} [Hua03]. \textbf{job} [GJM18].

\textbf{Josephson} [IKY+10]. \textbf{Journal} [Ano91b, Ano91a, Ano92g, Ano92e, Ano92f, Ano93a, Ano94a, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, Ano98a, Gaf88, Lee03, Ano98b, Ano99, DBA+09, DBM+11, Ano91a, Ano00, Ano01b]. \textbf{JPEG} [BKRS90, CLBS17]. \textbf{JPL} [Din91].


\textbf{Just-in-Time} [BPBL11].

\textbf{K-computer} [INY+14]. \textbf{Kepler} [HPW+16]. \textbf{Kernel} [TM99, ALL13, Jon12, LNSMMA15].

\textbf{Kernels} [BELF07, IYV04, MAB+13]. \textbf{key} [KES+17]. \textbf{keys} [BSK14]. \textbf{Kinetics} [ARR99]. \textbf{Knowledge} [AEG+03, Cap09, vLRA+03, ECG+13, KT94]. \textbf{Known} [Ano92b]. \textbf{Kopelman} [CBV97]. \textbf{Krylov} [GKM00, ATL+15, AKP+18, CMN12]. \textbf{Kutta} [KPR17, RR96].

\textbf{L} [dSSB+08]. \textbf{LA-MPI} [YSP+05]. \textbf{Laboratory} [ABF+08, Bus87, BBB+91b, Don89, DGH+93, HGD91]. \textbf{Lagrange} [MT89]. \textbf{LAM} [SBB+05]. \textbf{LAM/MPI} [SBB+05]. \textbf{Laminar} [EDS95, SG91]. \textbf{Land} [HVKW05]. \textbf{Language} [CC207, LD07, Pan92, Sha88, CH13, EKD+12]. \textbf{Languages} [Kal99b, KKS04, YHG+07, J092]. \textbf{Large} [AS00, AK91, AGL+87, BAM+16, BGG05, BDP01, BCCL09, Ber92, BBB+10, BBA87, BBC+06, CWHP99, CK01, Ede93, Ewi88, Fra05, FBW+87, GDKWS15, GMW10, Gun00, HSLK11, Joh01, KNP+87, KUE+00].
LT88, LM03, LDW+12, LC06, MC90, MR04, MRD+15, Mor89b, NKR90, PPK+04, PS87, RGB+18, SE92, SD87, TRS+10, UF89, VS03, WTI99, YRA+02, ZRC+06, ABH+18, BLO18, BCYS11, CvG11, DCD+13, EEL15, FU12, HIT+14, MBHF15, MJ16, RGD12, STP+13, VOL+14, ZBMK11.


manycore [HFV+12, LTPK17, MBC+18].

manycores [BH17]. Mapping [CDRV15, QH08, DCN17, GJM18, Jea13, KPR17].


Massive-Scale [GNB11]. Massively [BBDR95, CH94, CBW95, CB95, Dem90, HVWS09, HVSW09, HS93, HZ91, JL89, Jon92, LPJ98, MA15, MPG93, Mon89, NZ93, PK04, SBF00, SCB+95, SK92, TMW+99, AHB+16, BCLP17, KDH18, NMAE13].

match [Ozs16]. Matching [ZC92, HFV+12].


Measure [BH06]. Measurement [MSMW07, FU12]. Measuring [FGJ+04, Har11, KKS04, SB04].


Mediterranean [CDG+14]. Medium [MHW15]. Meetings [Ano91c, Ano91d, Ano91e, Ano92i, Ano92j, Ano92k, Ano92l, Ano92m, Ano93b, Ano93c, Ano98c].

Melting [MWC+05]. Member [HTSK90]. memetic [NC18]. memoization [CGGC+16]. Memoriam [Mar91].

memories [TKSK88]. Memory [AH93, AD93, BFLL99, BMWD87, Bri10, BEF+95, CDT05, CWG09, CB95, FSS13, GJMS88, GSHL03, Gir02, HL10, HD05, JLL04, JMC05, MWAR+87, MCV+00, NPT+06, NTKP06, WT99, YRA+02, YK04, YIN+11, ZC92, BH12, DEKV92, DCN17, HTD+14, HGMW12, IK18, J092, KDO16, LFB+15, LCZ+15, SPNB14, WA18, WZHG17, SS10].

Memory-Aware [SS10]. Merging [YBA+03]. Mesh [DFS+05, HT04b, MV02, MCW+00, SR05, WCE95, WCDS99].

Mesh-Iterative [MCW+00]. Mesos [Ytt97, KC18]. Meso [GGS01]. Meso-Scale [GGS01]. Message [Ano93d, Ano94b, CWG09, MPI98, BBG+14, SMZ+18, ZKRA14, BC14, BBH+06, BRU05, Cot04, GL04, IBC+10, KKD05, LD10, SWHP05, SLG95, TGT05].

Message-Passing [Ano93d, Ano94b, CWG09, MPI98, SMZ+18, SLG95]. Messages [JW06]. Messaging [KFM+10].

Metacomputing [FK97, GS99].

Metaheuristics [QH08, TPG+18]. metal [NMAE13]. metal/polymer [NMAE13].

Metals [Cla91].

Metascheduling [Mat03].

Method [DP05, FCLG07, Man97, SG91, Tis97, de89, BBDH14, MMHL11, OKTR11, TKS88, YB12, CKE08, SBB06].

Methods [AD93, ACG+90, AGL+87, BMWD87, CC95, CSV91, FWSW02, HOPB92, HJ96, MC90, MG87, Men88, MR90, HFC+10, RR96, SCFK04, TXD+07, THL88, CMN12, IYK16, JPSA+17, La93, Mon12, UZM+14, Nag89].

Metric [HE01, DHL16]. Metrics [CMS+11, Num04, Ste04]. Mexico [Bus87].

MHD [ACG+90]. MIC [HLS+17, SHK+18].

Micro [BBW+10, SKS+13].

Micro-benchmarks [BBW+10].
micro-obsessive [SKS+13].

Microfluidic [BH12]. Microprocessors [WT99].

Microscopic [YFH+96]. microscopy
KTWL18, KILL13, LDW+12, LVA+13, LNSMMA15, PSV+16, TKA+17, VSS+13, VOL+14, YFS+14]. Multi- [PSV+16].
Multi-Core [Br+10, BH12, KDH11, SSR+14, CAE+13, KILL13, LDW+12, LNSMMA15, TKA+17, VOL+14, YFS+14].
Multi-Criteria [BKRSR99].
Multi-component [HD05, SVN99]. Multicomputer [Man97].
Multicomputers [MOK00]. Multicore [CWG09, BS+14, DTPD14, LW+11, MPD+12, MBC+18, OPW+12, THH+13].
Multidomain [KS+05]. Multifrontal [AD+99, AD93, BMW+87].
Multigrid [MT+97, SC04a, ZZG+14]. Multilevel [DVG+97, EGG05, WCD+99].
Multimodal [FWSW02]. Multiparadigm [AS00]. Multiphase [ZC92]. Multiphysics [KMW+13, LJO+05, MCW+05, PK+04].
Multiple [DL+06, MYCR06, Mor89b, Nak99, BL+18, BDFV+15, HG+14, KDO+16, MDH+18, RDG12, SKS+13].
Multipole [CKE+08, KMPJ+08, IKY+16, YB+12].
Multiprocessing [A+87a, DD91, YM91].
Multiprocessor [AD+89, BS+88, DEKV92, KPR+17].
Multiprocessors [AD+93, DD91, Gt+92, Wad99].
Multiprogramming [M+89].
CAK+07, GSHL03, uITH07, RDG12.
Non-Data-Communication [BCG+10].
Non-Dedicated [CAK+07, GSHL03].
non-Hermitian [RDG12].
Non-Polynomial [uITH07]. nonblocking
[WLFH16]. Nonequilibrium [YW93].
Nonlinear
[AK91, ABAS87, HT04b, KKVY+90, JRT16].
Nonsymmetric
[KC92a, KC92b, MC90, Ma00]. Normal
[YRA+02, Ha93]. North [LC90].
Northern [UB95]. Notice [DT17, DT18, WD18]. Notice [Ano17a].
Novel [CGB+94, DGJ09, FWZ91, SG07, HTD+14, PNFC16]. Novo [NKIn+08]. NSF
[Bra91, Sci92, Sa87]. NSF-Sponsored
[Sal87]. NT [Ano01a, CLP+99]. NuChart
[TDM+17]. NuChart-II [TDM+17].
Nuclear [FSS13, IHMM87]. NUMA
[Jea13, OPW+12]. Number
[Ano92h, FG97, FU12]. Numbers
[BRR+95]. Numerical
[ABF+99, ABB+94, DMT01, DE03, Ede93, JJ93, LWL05, Nag89, PR95, PPR03, PBD+01, Poz97, RAB+15, RIF01, RKKC90, SG91, THDC09, BSS15, MAB+13, SDF+17].
Numerically [Mah90, WJS+90].
NWChem [JDD18].

O [DLY+98, DEL+12, IBC+10, KKCB98, KES+17, LPJ98, MMD98, MS95, NFK98, OWO98, PH91, SW01, SR98, TLG98, TD08, WWA+11]. Oak
[ABF+08, DGH+93, HGD91]. Object
[NHG+96, SE12]. Object-Oriented
[NHG+96]. Objective [PPK09].
observable [RAB+15]. observations
[ZRK14]. obstacle [CCBS11]. Obstacles
[MBF+11]. Occupancy [GLGLB+11].
Ocean [Cow08, HAF+96, JO90, KJ05, KM95, WSCZ05, CDG+14]. oceanographic
[CBA+18]. October [OL05]. ODE
[Ano87a]. Offload [BRU05]. Offloading

[GWKN08]. Ohio [BBW90]. Oil
[KB94, KR95]. On-Board [SPTT08].
on-Demand [EW06]. On-Line [LWOB97].
One [GDF05, LRT07, TGT05, Udd17].
One-IPC [Udd17]. One-Sided
[GDF05, LRT07, TGT05]. Online [LC06].
Onto [QH08]. Open
[LWOB97, BSW+14, GCS13, AEG+03].
OpenACC [MGS+15, OGM+16, QHC17].
OpenCL [CLBS17, RGT+18]. OpenDDA
[DGJO9]. Opening [PRT90]. OpenMOC
[BSS+16]. Openmp [SZC12, BF01, BBDH14, BBC+00, MS02, OPW+12].
Operating
[WC01, EDSV06, HI12, HI13, HI15].
Operation [BBR10, BSR09]. operational
[CB+18]. Operations [FCLG07, GDF05, MS09, TRG05, TGT05, G11, KMI+14].
Operators
[FSN08, GRC08, ZM07, LMT+12]. Opportunities
[Ano87a, Cap09, KMW+13].
optical [GSK+15]. Optimal
[BR03, FG97, LTPK17]. Optimisation
[BGR+18, VSS+13]. Optimization
[AKP+18, ABB+94, BLL99, BGB+96, BELF07, HL10, HA91, IVY04, KMI+14, LT88, PPK09, RW03, SCB+95, SR05, TXD+07, TRG05, YLL+14, ABH+18, BRGR11, BH12, IMW+13, KES+17, NMAE13, SDJ17, SHK+18, UZM+14, YWL+14]. Optimizations
[PSV+16, DCD+13, Jea13, PUR94].
Optimize [KKCB98]. Optimized
[MSK92, IK18]. Optimizing
[FK91, KILL13, MAB+13, MCG04, Mor89a, TGT05, WEC95, WCDS99].
Optorsim [BCM+03]. Order
[CC95, uITH07, THL88, CZR+11, OGM+16].
ordering [Wai18]. ordinates [DMG18].
Organic [CBL06]. Organization
[FWSW02, FKT01]. Organized [BGF02].
Organizing [CBL06, GZ10]. Oriented
[Hua03, N FG+96, CMN12]. Orography
[GS05]. OSWALD [RGB+18]. other
Our [WW92]. Overheads [RAB+15]. output [LCZ+15, WVL+16].
Overlap [BBDR95, BRU05, INY+14]. Overlapping [PR95]. Overview [AGR+03, DFP+96, DJC05].

Panel [Sal87]. PANORAMA [DCM+17].
Papers [Lee03, Moh09, OL05, DT11, KKD03].
papillomavirus [ABH+18]. Par-BF [LGDH16]. Paradigm [GBG+96, DCL+08].
Parallel [AWS01, AAC+97, AS00, APD+15, AK91, AM00, AHB+16, AEPR92, ABB+94, BGG05, BDP01, BCCL09, BBB+91a, BCZM07, BOD+91, BYCB05, BK07, BBDR95, BBC+00, BSH+16, BG00, BEF+95, BGR+96, BH99, CCH+88, CCZ07, CE00, CDH+93, CL95, CCBS11, CH94, CBW95, Cho01, CSV91, Chn99, CEL+97, CB95, CM97, CJK+05, DEKV92, DLY+98, Dem90, DIB00, DFS+05, DRZS99, DMT01, DZDR95, Ede93, EGG05, EDS95, FG97, Gaf88, GCCC+03, GKN+06, GKP97, GDS17, GP93, GGS01, GL97, GKT00, HKK88, HVWS09, HVSW09, HR97, Hdv18, HLW00, Hj96, HTo4b, HS93, HZ91, IBC+10, JLO05, JLR9, Jon92, KDL01, KC92a, KC92b, KT99, Kok88, KR11, KS05, LJO05, LPJ98, LWOB97, Lus09b, MC90, MS09, MMD09, MA15, MS02, MSW07, MT89, MWAR+87, MPG93, Mat95, May02, MD99, MWC+05, McR87].
Parallel [Meu88, MFB+11, Mom89, Mor89b, MSK92, MS95, NK98, NKR00, NKIN+08, NHG+96, NZ93, NFK98, NKP+00, OW098, ODD07, Pan92, Pan97, PR95, PPR03, PC08a, PK04, RW03, RR96, RS03, SBF90, SWW94, SABD13, SW01, SS89, SPTT08, Sha88, SCB+95, SM06, SR98, Sim90, SSNM92, SG91, SK92, SBG10, SMW87, TBA+17, TLG98, TMW+99, TR92, Tis97, TD08, UB95, VLO+08, VSHN14, WSCZ05, WG07, YRA+02, YHG+07, YW93, Ytt97, ZK93, ZCZ+13, BLG17, BH12, BCLP17, CMH05, DAB+12, DEL+12, GHL15, GHHS15, HLW+16, HLS+17, IMH+11, IMH+12, JSD+17, KT94, KES+17, KDH18, Knu96, LPG88, LGDH16, LWT+11, LB18, MJ16, MNAE13, SMZ+18, TRS13, TPG+18, WVL+16, WEPB12, DP05, KJO5, KKD03, KKK05, LKO10, NAG89].
Parallel-algorithm [AHB+16].
parallelisation [BSW+14, VSS+13, WSD+14]. Parallelism [ACM88, CFK+94, MYC92, VRRL18, dSSB+08, DMSMG18, J12, KDNE18].
Parallelization [AJL+97, CBV97, Caw08, Cza03, DG+97, GC97, HE01, KM95, LP10, LVA+13, MCW+00, Reu92, WBG06, C1W17, CDG+14, MFP+17, OS16, SZC12].
Participate [Mar87c]. Particle [DR06, DDM87, MB97, MD99, MR90, PGTS10, ABH+18]. Partition [LQJG16].
Partitioned [MHW15, SBG10, ADB+18, LGDH16].
Partitioner [SR05]. Partitioner-Centric [SR05]. Partitioning [LR07, SR05, WCD09, Ytt97, SABD13].
Partitions [WCE95]. Passing [Ano03d, Ano94b, BC14, BBH+06, BRU05, CWG09, Cot04, GL04, IBC+10, KKD03, KKK05, LKO10, MIP98, SWHP05, TGT05, SMZ+18, ZKRA14, SLG95]. PASSION [KKB98]. Passive [MB+11]. Patching
[BH00]. Path [Luc09, SDJ17]. Paths [Rao02]. patients [SKS+13]. Pattern
[BE07, APD+15, SKS+13]. Patterns
[Cho01, GRC08, GKB93, SR98, BRR17, EEL15, HGMW12, WEPB12].

Patterns/Operators [GRC08]. PC
[CDT05, CK01, LWL05, Ste01]. PCs
[AWS01]. PDEs [Ma00]. Peaks [TC10].

PERFECT [BCK’89]. Performance
[AS00, ATN+00, Ano87b, Ano87f, Ano94a, Ano94c, Ano95b, Ano96a, Ano97b, Ano97c, Ano97a, Ano98b, Ano98a, Ano99, Ano00, Ano01a, Ano01b, ARR99, Aus92, Bai88, BGI+99, Bar09, BAA+06. BCK’89, BBH14, BWW+10, BGB+18, BBA87, BFNV07, BMR03, BRT’92, BBD00, BDG+00, BELF07, CDQS04, CWHP99, CC95, CK01, CDP+94, CAK+07, CSY10, CEL’07, CB95, CKJ’05, Dar00, Del93, DH96, DGD+04, DGJ99, DBA+00, ISD89, FGC+05, FGV+04, FSC’11, FSN08, FFR’10, FU12, Gun00, HIT+14, HVWS09, HVSW09, HR97, HL00, HWW00, HSLK11, IS96, IKY’10, IHMM87, JLL04, JMC05, KBA00, Kep04a, KHP+04, KJ05, KDL01, KWB06, KS09a, Kuc04, KUE+00, LR07, LR09, LS90, LWL05, LD07, MSMW07, Nav02, MA89, Men00, MJ04, MMN09, MSK92, NFK98, NPT+06, NTKP06, NKP+00, Num04].

Performance
[OCC+08, PPK+04, PF16, Poz97, PL05, QHC17, QW012, RIF01, RBL08, SBF90, Sab91, SWHP05, SSQ08, SCA’95, SM06, SVN09, SC09, Spr06, SKB01, Ste01, Ste04, SB10, SFP02, SBBS06, SW04, THC’96, TMW’99, TAR’08, THDC09, VCA90, VR00, VDB04, Wad99, WT99, WBF04, WG07, WD05, Yel04, YK04, YIN+11, YSP+05, ZLGS99, ATD17, AKP+18, BLC17, BRGR11, BSH+16, BAP+12, CGGC+16, CS14, CZR+11, CMHB15, DTP+14, DCM’17, DVW+12, DH16, DAC+14, ECG+13, EKD+12, Fem90, GHL15, GR17, GMWG10, GS18, GSK+15, GGO16, Har11, HLW+16, IYK16, IFA15, JKD+11, KDH11, KL13, KMM16, LST15, LPB+16, LWT+11, MAB+13, MPSIS15, MUC+13, MW12, NMAE13, PPC+16, PVS+16, SSR+14, SZ11, STS17, SKC10, TR17, TKA+17, TNL13, UCZ+15, WLG+18, WLFH16]. Periodic
[ZBMK11]. PERMAS [AJL’97].

Perspective [Bar09, YHG’07, PS12]. Perspectives
[Ano92n, MP95, Sab91]. Perturbative
[MFP]. Pervasive
[Ald89]. Petaflop
[RWM17]. Petaflops
[TAM’16]. Petascale
[Cap09, Her09, HXW+13, WWA+11, JKD+11]. Petascale/Exascale
[Cap09]. PGAS
[GDKWS15]. pH
[MP94]. Phase
[CBL10, CDH+93, FZ91, HSLK11, YC90, KDH18, VSN14]. phase-field
[VSN14]. PHAT
[MJL13]. Photon
[MW+87]. phylogenetic
[KPS18].

Physical
[Chu99, SR98, WD05].

Physical/Logical
[Chu99]. Physician
[Wit92]. Physics
[DSD+91, KDH11, MR90, DAc+14, GHHS15]. Pieces
[Mar87d]. Pipeline
[BFR99, BRKRS10]. Pipelined
[TRS+10]. pipelining
[LJG16]. Pittsburgh
[RS88]. pivoting
[ZYC15].

Pixel
[HC08]. Planet
[Mar89b]. Planning
[CDCV06]. Plasma
[CD+00]. Fiducial
[FS05]. Plasmas
[ACG+90, DDM87]. plastic
[WSD+14]. plate
[NMAE13]. Platform
[LJC+10, PMS+04, PL05]. Platform-Adapted
[PSM+04]. Platforms
[BLR01, BMR06, Eyr06, MYCR06, OCC+08, BG+18, BSH+16, IYK16, IMW+13, MDP+12, MFP+17, PPC+16, SHK+18, UZM+14]. Play
[Pan97]. PLW
[LD07]. pMATLAB
[BK07]. POEMS
[BB00]. Point
[BSBF89, HC10, Ma00, LH18].

Point-SSOR
[Ma00]. Point-to-Point
[HC10]. Pointers
[LRT07]. points
[CvdV+18]. Poisson
[GGS01]. policies
[BL018]. Policy
[EW06]. Pollution
[DFH+96]. Polyacetylene
[ZOF90].
Polymers [AEPR92]. polymer [NMAE13].
Polymers [DFC90]. Polynomial [uITH07].
Polytetrafluoro [DVC88]. Porous
[PGTS10, MPD+12]. Portability
[WD05, GS18, QHC17]. Portable
[BDG+00, FCLG07, GL97, PLS05]. Portals
[BRM03]. Porting
[MCR+17, Mic09, SHK+18]. pose [BE17].
Positive [Ald99]. Post [BBH+13].
Post-failure [BBH+13]. Potentials
[DGD+04]. Power [B HdR09, Dem90, TNBG07, CGGC+16, PMP+16, UZM+14].
Power-Saving [TNBG07]. Powerful
[Mor89a]. PowerPC [MAB+13]. PRACE
[Mic09]. Practical [Cho01]. Practice
[BR03]. Practices [PK04]. Pragmatic
[DCD+13, Eyr06]. Precision
[Ano02b, BD+07, LH18]. Preconditioned
[MG87]. Preconditioner
[BB99, de 98, RMS+18]. Preconditioners
[CE00, Cho01, Ma00]. Predict [VS03].
Predicting [BE07, WLC91, M CU+13].
Prediction [FFR+10, HL00, KUE+00, NKP+00, SCB+95, BAM+16, GCSK13].
Predictions [RF01]. preeminent [YB12].
Preemptive [BBH+06]. Preface
[Ano17b, Bak01, Bami12, BO08, CCF+06, CDD+06, DJZ08, DDS00, DKD07, DT07, DT01, Don02a, Don02b, Fow05, IK02, Kah07, KZ07, MD06, OL05, Pat05, PC08b, Wal03, YD07, dA03]. Prefetching
[BIC+10, CZR+11]. prefix [Ozs16].
Preprocessing [DMT97]. Preprocessors
[Ano01a]. Pressure [WLC91]. Pricing
[YB07]. Prime [Ano92h, Sim90]. Principal
[DF08]. Principles
[DQFW90, GKN+96, TMWS91, HIT+14].
Priori [Cho01]. Privacy [Mar89a]. Prize
[BBD+17]. probabilities [Ha93]. Problem
[CDH+93, CSV91, DL09, UF89, CCBS11].
Problems
[BGG05, CD97, FG97, FBW+87, GGS01, MR90, NK89, NKR90, SWW94, uITH07, TRS+10, TMMR10, KC18, La93, MBHF15].
Procedure [CBG+94]. Process
[AM00, FGC+05, GCL93, SC04b, KILL13, WSD+14]. Processes [MWC+05, GSK+15].
Processing
[AK91, FP02, GLGLB+11, KHP+04, LP10, MA15, MT89, Mor89b, MSK92, NTD10, OW09a, PC08a, PMS+04, Sal87, SPTT08, SWG+03, VLO+08, YW93, BE17, BLC17, CLG13, CMN12, DMQS12, GHSHS15, KDO16, LQJG16, PH91, RDG12, RWM17, ZCZ+13].
Processor [MPG93, RRV06, SB90, SK92, BGM15, MAB+13, Mon12]. Processors
[Bri10, BDG+00, LR07, LT88, MWAR+87, Mor89b, TMW+99, BBG+14, CZR+11, MBC+18, MSPS15, P5V+16, THH+13].
Product [MC04, Eri88]. Production
[MSK92, MDH+18, SH93]. Productivity
[Bar09, FGJ+04, KKS04, Kep04a, Kep04b, Kuc04, SB04, Ste04]. Profiling
[MSMW07, SGFC09]. Program [Kit90, NHG+96, WG07, Fem90, KJ05, Web91].
Programmability [CCZ07, CLS09].
Programmable [HC08]. Programme
[HT04a]. Programmer [BEK+18].
Programmer-guided [BEK+18].
Programming
[BBG+10, BV11, BF01, BDG+00, CCH+88, CWG09, Cza03, EGG05, Gau88, Gir02, Kal09b, KKS04, Kok88, Lus09b, Mat95, NPT+06, PA11, PBAL09, Poz97, RW03, Sha88, SCB+95, SMW87, VEMR17, WLB92, BH17, CCEB18, GDKW15, HLL+17, LBP18, MGB12, MDH+18]. Programs
[ACM88, DL07, GL04, HC10, LWO97, NZ93]. Progress
[AGL+87, BRU05, CAE+13]. Project
[BHK+06, CBB+96, PK04, BCC+01, DBA+09, DBM+11, Mic09, OKTR11, PS87, PHB04, WIt92], projects [ACF+11].
Promising [Gir02]. Propagation
[GKN+96]. Properties
[ACF+90, DFS+05, WLC91, ZM07], proposal [ZKRA14]. prospectus [Bra91].
Protein [ACD07, BHK+88, Jou92, RGB+18,
DSH\textsuperscript{+16}. Protocol [TNBG07].
Prototypical [WLVL\textsuperscript{+96}]. Provided
[LK96]. Providing [GKP97]. Proximal
[NZ93]. Purity [HC08]. Purpose
[CK08, Gus04, BE17]. Purpose-Based
[Gus04]. Pushing [THH\textsuperscript{+13}]. PVM
[BDG\textsuperscript{+95}, Mat95, SYF96]. PVMGeant
[DZDR95]. PVODE [BH99]. PyCOMPSs
[TBA\textsuperscript{+17}]. Python
[FKA\textsuperscript{+17}, LD07, TBA\textsuperscript{+17}].

Q [KMH\textsuperscript{+14}]. Quality [Mat03]. QCD
[Din91, JC12]. QCDOC [DG\textsuperscript{+04}]. QM
[MFP\textsuperscript{+17}]. QM/MM [MFP\textsuperscript{+17}]. QoS
[BSCC03]. Quadrics [YSP\textsuperscript{+05}]. Quadtree
[CL95]. Quality [PK04]. quantitative
[WLG\textsuperscript{+18}]. Quantized [Ham91]. Quantum
[DFC90, FBW\textsuperscript{+87}, IKY\textsuperscript{+10}, KKV\textsuperscript{+90},
Liu90, SSSW91]. Quarks
[BOD\textsuperscript{+91}, BEH\textsuperscript{+90}]. Quartic [nITH07].
quasi [YLL\textsuperscript{+14}, quasi-diagonal [YLL\textsuperscript{+14}].
Quasigeostrophic [KM95]. Quda [JC12].
Query [SWG\textsuperscript{+03}]. Querying [CHZ02].
Questions [FS09]. Queuing [Ish91].

RA [AMC\textsuperscript{+18}]. Radar
[MPG93, SVBP13, ZCZ\textsuperscript{+13}]. Radio
[CBB\textsuperscript{+96}, CLG13, VFJ\textsuperscript{+15}]. radiosity
[SABD13]. Radiotherapy [DCS10].
RaftLib [BLC17]. Raid [Pia09]. Raid-6
[Pia09]. railway [CGGC\textsuperscript{+16}]. random
[FNFC16]. Randomly [CYT\textsuperscript{+02}]. Range
[BBA87, MHW15]. Ranger [BWB\textsuperscript{+10}].
ranking [AMC\textsuperscript{+18}, DHL16]. Rare [BB02].
rare [BBG\textsuperscript{+14}]. rationale [BBH\textsuperscript{+13}]. ray
[EE15, PS12, CDH\textsuperscript{+93}]. raycasting
[BH12]. rays [PS12]. Reaching [CIW17].
Reacting [LP10, MYC92]. Reaction
[Koi90]. Reactions
[ASW91, Ren92, TWK87]. Reactive
[PGTS10]. Reactor [FSS13]. Read
[RWM17]. Reading [An02r, An02s].
Ready [Sim90]. Real [BE17, KK01, NRR97,
ODD07, TAR\textsuperscript{+08}, VR00, WLC91, Wri12,
HPW\textsuperscript{+16}, MJGL13, WZHG17]. Real-Time
[KK01, NRR97, VR00, Wri12, BE17,
MJGL13, WZHG17]. real-world [HPW\textsuperscript{+16}].
Realistic [BR03, LC06]. Reciprocating
[YK07]. Recognition
[BE07, RES87, CdVL\textsuperscript{+18}, SKS\textsuperscript{+13}].
Reconfigurable [BCC\textsuperscript{+06}].
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[CSY10, FFR\textsuperscript{+10}, BGM15, THH\textsuperscript{+13}].
Recovery [BB02, BBH\textsuperscript{+13}, rectangle
[Ha93]. Recurrent [SMW87].
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[DP05, JW06, RRV06, SS10]. reduce
[APD\textsuperscript{+15}]. Reduced [BFLL99].
Reduced-Dimensionality [BFLL99].
Reducing
[BLOR18, CdVL\textsuperscript{+18}, DLY\textsuperscript{+98}, JMC05].
Reduction [NRR97, ATL\textsuperscript{+15}]. References
[An02q, An02q]. Refinement
[BDL\textsuperscript{+07}, HT04b, SR05]. region [SPNB14].
region-based [SPNB14]. Regional
[KM95, CDG\textsuperscript{+14}, WSCZ05]. Regression
[VS03]. Relational [MS09]. Relative
[PUR94, VC89]. Relativity [RIF01].
Reliability [TNLP13, BEK\textsuperscript{+18}].
Remeshing [LDGR03]. Remote
[BB02, DP05, NTKP06, HGMW12].
Remotely [VLO\textsuperscript{+08}]. Renaming
[BPBL11]. rendering [BH12]. Replication
[BCM\textsuperscript{+03}, BCR\textsuperscript{+14}]. Report [Buz89, Sal87].
Representations [AS00, WW92, DF18].
Request [DD06]. required [CdVL\textsuperscript{+18}].
Requirements [LPJ98]. Research
[An07a, Aus92, ABB\textsuperscript{+94}, Bus87, Cap09,
CPD\textsuperscript{+94}, Don89, Duk91, HMM87,
KHK\textsuperscript{+09}, Mar88a, Mir90, Pan97, SG09b,
SKC10, TR92, BBW90, KT94, EM89].
reservation [Mat03]. Reservoir
[AWS01, Ewi88, KR94, KR95, PR95, ZC92].
Resilience
[CGG\textsuperscript{+09}, BCR\textsuperscript{+14}, CBD\textsuperscript{+17}, LFB\textsuperscript{+15}].
Resilient [BPR18, KS05, RMS\textsuperscript{+18}].
Resolution [DFS\textsuperscript{+05}, HB90, MAB07,
WOS08, CHW\textsuperscript{+15}, DVW\textsuperscript{+12}, WD\textsuperscript{+15}].
resonance [JKBW18]. Resource
[AAF+01, EW06, FBB03, MFK09, Mat03, WPBB01, YB07, CDV15, MRD+15].
Resources [QHO8]. Response
[BBC+00, ZOF90], Restart [SSB+05].
restoration [APD+15]. Restrained
[CGB+94]. Results
[BMR06, GNTLH97, Jea13, PUR94, WVL+96, BRGR11, BSH+16]. Rethinking
[KES+17]. Retracted [IMH+12].
Retrospective [Mar88b]. reverse
[QHC17]. Review
[Bus87, Con88, Mar88a, Nag89]. Reviews
[Don87, Mar87a, Mar87b, McR87].
Revisited [MS09, SZ11]. RF
[HTWS08, YW93]. ride [VFJ+15]. Ridge
[ABF+08, DGH+93, HGD91]. Rigid
[Nak99]. Rigid-Body-Based [Nak99].
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RISC-Based [Gro03]. RNA [SCB+95].
road [TDM+17]. Roadmap
[THDC09, DBM+11]. Rocks [Pap11]. Role
[Pan97, Sab91]. Roles [MMS88]. Rolling
[FFNP97]. Routines [CDQ504]. Routing
[CHZ02, MOK00]. Run [DL+98, LYL+16].
Runge [KR11, RR96]. Running
[Fra05, MGB12], runs [CDVL+18].
Runtime [AJL+97, BH00, Dar99, Kal09b, LS06, PG18, HI12, HI13, IH15].
Runtime-compilation [PG18].
S [Lai93, WOG95, LYL+16]. S-3800
[WOG95]. S-MP [Lai93]. SAMCEF
[GCD97]. Sampling [MR04]. San [Mai87].
SAR [AAC+97]. SARA [SBWS99].
Satellites [BKS+07]. saturation [CIWI17].
Saving [TNBG07]. Scala [SFP02].
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[BCYS11, DR06, FSC+11, GS05, HLW00, KC18, MWC+05, YIN+11, DAB+12, MW12].
Scalable [CD06, CHZ02, DW97, DMT01, FK01, HGMW12, IBC+10, JSSZ09, MCW+00, MS05, MAJJS03, SDJ17, SFP02, WLB92, ZLGS99, ZRC+06, dPIdA03, DEE+12, TDM+17, YB12].
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[Ish91, OCC+08, FU12, KJS99]. scalar-type
[FFU12]. Scale [AS00, AKJ1, BDP01, Ber92, BBA87, BCC+06, CWHP99, Ewi188, Fra05, GGS01, Gun00, GNB11, Her09, HLW00, HSLK11, Joh01, Key09, KUE+00, LT88, LC06, MPS15, Mor89b, NKR90, Nak99, PS87, SDA7, YRA+02, ZRC+06, dSSB+08, AMB+18, BAM+16, BLO18, BEK+18, DCM+17, EEL15, GDDKWS15, GMV10, HIT+14, LM03, LDW+12, MBGF15, MJD16, DRD+15, STP+13, VOL+14, ZXKRA14].
scales [BEW16]. Scaling [CGB+94, CKO1, CLM+16, GHHS15, ZM07, GR17, INY+14].
Scattering [MBF+11]. scene [SABD13].
Schedule [SBWS99]. Scheduler
[LS06, TR17]. Scheduling
[ATN+00, BKR09, BP+07, BR03, BBH+06, CJO6, CKP99, CBL06, DLG06, Eyr06, JWO6, KCC+06, LJC+10, MYCR06, SG07, TR17, WvNM+06, ABD+18, BPR18, Jon12, LQG16, Mat03, OPW+12].
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[BGO00, GS05, DMSMG18, KPR17].
Schemes [BS88, BS15, SZC12].
Schrödinger [BFLL09, IKY+10]. Schwarz
[GKMT00, PR95]. SCAR [SDF+17].
SCIARA-fv3 [SDF+17]. Science
[All88, Blo87, CD97, CDH+97b, Don89, Duk91, GKN+96, GLO9, HSBM03, HT04a, HWP03, Joh01, Mai87, Mer87, Nas92, RS88, Sab91, Web91, WWA+11, ADMP18, ACF+11, CMS+11]. Sciences
[NKR90, DG+93]. Scientific [AS00, BAA+06, BBA87, BJK07, DT99, DT11, DT17, Fol90a, Gaf88, GL97, HME90, Hab90, HLP+03, JLL04, JMC05, KPM+96, KW06, LS09, Mar87a, OCC+08, Sal87, SE92, vLR+03, ASHH16, CMS+11, CBD+17, DPA+18, DMQS12, DCD+13, DAC+14, EKD+12, FKA+17, LWT+11, MGB12].
sclerosis [SKS+13]. screening [MS015].
SE [DEE+12, KJH96]. Sea
[LP98, CDG+14]. Search [VDB04, FTB13].
Search-Based [VDB04, FTB13]. Searches


September [OL05]. Sequence [Jon92, MP18]. sequencing [MBC+18]. Sequential [WG07]. Serial [NK89, NKR90]. Series [ACD07, Mar88a]. Server [CD97, DD06]. Servers [CD06]. Service [HLP+03, Hua03, Mat03, WHL03]. Service-based [HLP+03].

Service-Oriented [Hua03]. Services [AEG+03, CBA+18, ECG+13, ZKRA14]. Sesam [BBA87]. Set [JLL04, PTG02]. sets [LG06]. Severe [WS+10]. shallow [LVA+13]. Shape [WCD99]. Shared [AH93, BMWD87, Br10, BEF+95, CDT05, CWG09, Gri02, HC10, LRT07, MWAR+6, NPT+06, WG07, ZC92, BH12, DEKV92, KDO16].

Shared-Memory [AH93, CWG09, BH12, DEKV92]. Shelf [LP98]. SHMEM [BBDH14]. Should [Pan92]. shuffle [HPW+10]. shutdown [BLOR18]. Side [HTSK90, kLCCW07]. Sided [GFD05, LRT07, TGT05]. Sidney [Mar91]. Sieves [CH94, Mon89]. Signal [FP02, PMS+04]. Signals [Arn07]. Silent [BSS15]. silico [MPSB15]. silicon [HXW+13]. similarity [LFB+13]. Simple [Kal09b, SC04b, SBWS99]. Simulation [BMT89, GMWG10]. Simulating [BEH+90, Din91, Ha93]. Simulations [AWS01, ABF+99, BD01, BHR09, BFNV07, CK01, Cla91, CB95, CM97, DCCS10, DZDR95, Ewi88, FFNP97, GCL93, GP93, HTSK90, IKY+10, Koi90, KR94, KR95, LP10, LWL05, LC06, MKG90, Nak99, PPK09, PR95, PS87, PHC+10, Reu92, RKKC90, TWK87, WBG06, WBMY90, BSW+14, CHW+15, DAC+14, HXW+13, JKD+11, JRT16, KDO16, KDH18, LPB+16, STS17, TAM+16, Udd17, VOL+14, WSD+14]. Simulation-Based [PPK09].


soft [GHHS15, RMS+18, YZC+15]. Software [ADM18, Ano87c, Ano87f, BV11, BCC+01, BFNV07, CD+94, Dar99, DW97, DE03, DBA+09, DBM+11, DGP+97, DJC05, Fol90a, GCD97, GKMT00, Her09, KSO9b,
LRO10, LQJG16, LDB+06, MM90, PP909, PA11, PK04, SG09b, JdS+17, JC12.

Software-defined [ADMP18]. Solid [CWHP99]. Solaris [Ado01a]. Solid [DQFW90, SK92]. Solidification

[MWC+05, SHK+18]. Solution [BK+88, BDL+07, CGB+94, MR90, PRD90, RS03, uITH07, TMR10, CSM17, CCBS11, CVG11, CMN12, ESW+12, RDG12].

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Solvers [DR06, GG501, Key09, KR11, ATL+15, MSHPV18]. solves [SZ11]. Solving

[BS88, BEF+95, CD97, HT04b, IJ93, KS89, Kum89, Man97, N93, SBF90, WT99].

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[Arn07, BSK14]. Source [Cyt+02, BSW+14, MJGL13]. Source

[GL97]. Space [FBBC03, JSSZ09, MHW15, ODD07, SGB10, FU12, HLW+16, MPD+12].

space-aware [HLW+16]. Spaceborne

[SKB01]. SPAI [BS99, Ma00]. Spark

[KWEP18]. Sparse

[AD93, Ano02a, AGL+87, Ber92, BELF07, Cho01, GG11, HR97, IVY04, KC92a, KC92b, MC90, Ma00, Man97, MCG04, SZ11, SCFK04, UF98, WT99, ASH16, ATD17, CVG11, G14, GGO16, MSHPV18, SCR11].

Sparsity [Cho01, IVY04]. spatial

[WDH+15]. Spatially [WB60].

Spatially-Explicit [WBG60]. spatio

[STP+13]. spatio-temporal [STP+13].

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[BV11, BM13, BH17, BE18, CKE08, DT97, DT99, DT06, DT13, DT17, HD18, MPI98, ME14, Nag93, OV13, PA11, Ye04, S3D12].

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[CBM13]. Species [BB02]. Specific

[BH06, CDH+97b]. Spectral [BG00, CB95, DFS+05, FSN08, Tho90, DEE+12, MS+15].

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Spline [Fro91]. Splines [uITH07]. Splitting

[IS96]. Splitch [DGRK17]. Sponsored

[Sil87]. Spotlight [MPG93]. Spread [GB93]. SRP [MJGL13]. SSOR [Ma00].

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Stacking [BR10]. Standard [Ano94b, Don02a, Don02b, MI98, TH+13, Poz97].

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StarSs [PBAL09]. State

[CBV97, MYCR06, WLC91]. Static

[BLRR01, BR03, SCB14, TR17].

Stationary [SCFK04]. Statistical

[EGMP93, FWSW02, Her88, MR04, NRR97, VDB04, Z0M7]. Status [MB87]. Steady

[MYCR06]. Steady-State [MYCR06].

Steering [GKP97, KWB06, VR00]. Stefan

[CSV91]. stencils [APD+15, YFS+14].

stencil-reduce [APD+15]. stepping

[SBS15].

Stiff [BCCL09]. Stochastic

[AK93, ABAS87, LP10, NZ93]. Stokes

[Mav02, SBF90, ZZG+14]. Storage

[KR11, G14]. store [KES+17]. Storm

[WJS+90]. Strategies

[BMC+03, FBBC03, GWK08, MOK00, WPB01, MRD+15, OPW+12, SDF+17].

Strategy [MCW+00, SVN09]. stratified

[AMC+18]. stream [BLCR17, LBB17].

streamed [GG14]. streaming

[BRGR11, MAB+13]. strong [INY+14]. strongly [ZZG+14]. Structural

[YCHH90, MJ16, PUR94]. Structure

[BB06, CGB+94, CBL10, CSY10, F92, Jon92, KT99, L09, SCB+95, SYF96, TM+99, H14, HIT+14, KC18].

Structure-Specific [BH06]. Structured

[LDGR03, Ma00, SR05, WBG06, Ytt97, RV15]. Structures

[BHK+88, DFC90, FFR+10, GCL93, GG11, HB90, HA91, JP93, DSH+16, JKBW18].

Studies

[CBW95, DQFW90, HOPB92, HE01, LS06]
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[ASW91, BF01, CDH+97b, GLGLB+11, GL97, HL10, HLS+17, JW06, KKC98, KR94, KR95, LC90, MMD98, PPK+04, Sci92, TXD+07, WGI90, WLW92, WJS+90, WW92, BS+14, BDFVP15, CGC+16, CMS+11, IFA15, KC18, LFB+15, MibdG13, MCR+17, OF17, TKA+17, THC+11, YWL+14].

Studying [BCM+03, BOD+91]. subband [VSS+13]. subcellular [CHW+15].

Subdomains [FG97]. Subgrid [GS05].

Subprograms [Don02a, Don02b].

Subroutines [KJH96, JO92]. Subsetting [ZRC+06, AMC+18]. substitution [DTDP14]. substructures [SCR11]. successful [CBA+18]. Suggestions [Ano02r, Ano02s].

Summary [Moh09, Sal87].

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[ATD+88, Ano87b, Ano91b, Ano91a, Ano92g, Ano92e, Ano93a, Ano94a, Ano94c, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, BBW90, CL95, CLP+99, Con88, MKG90, Mai87, McN89, MM90, MA89, Mib90, Mor89a, MR90, Nas92, Sci92, SB04, Web91, WOG95, Bra91, FU12, KMH+14, Duk91, MAB07, Mar88a].

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Supercomputers [Ald89, ABF+99, AGL+87, Bai88, BSFB89, BCK+89, BVB+10, BYT91, Bro88, CDD+90, DDM87, Gen88, Mar89a, McN89, MG87, NKm+08, YM91, ZC92, DCD+13, HI12, HI13, HI15, PH91, ZBMK11, Gen88, Bus87, Mar87b].

Supercomputing [All88, Blo87, DFP+96, EM89, Eri88, Gan88, GKN+96, LC90, Mar89b, McN87, MMS88, Nas92, NBB+96, Num87, RS88, SAB94K, Ano92, BBB+91b, Bra91, BBW90, KT94, MP95, TR92, All88].

Superconductors [JP93]. Supersonic [MYC92]. supervised [HGWN14].

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Surfaces [DF18]. survey [GR17, JdSA+17].

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Symbolic [Jea13]. Symmetric [BGG05, Gir02].

Symposium [All88, Blo87, DFP+96, ATM+00, AGL+87, BCC99, Ma00, SBBS06]. Tables
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task-parallel [SMZ +18], Tasking [JMP02, IK18], Tasks [GHZ01, WvNM +06, HTD +14], Tau [SM06], Taxol [CGB +94], TCGMSG [Mat95], Technical [Don02a, Don02b], Technique [ODD07, WG190, ASH16], Techniques [Arn07, BDL +07, FFR +10, KM95, VS03], INY +14, MSHPV18, UZM +14], Technologies [AB01, Dar99], Telescopes [DVC88], Televisualization [HME90], Template [Poz97, BLC17], Temporal [BPBL11, CY80, STP +13, WD +15], Teraflop [HLW00], Teraflop-Scale [HLW00], Teraflops [SS99, TAR +08], TeraGrid [Har11], Terapixel [ACF +11], Testbed [BCC +06], Testing [CDT05, KDL01], Texas [NAS92], texture [IMH +11, IMH +12], Tiflop [LYL +16], Tiflop/s [LYL +16], Their [LR010, Mar87b, RES87, Haj93], PUR94], Thelma [OKTR11], Theme [Hau94], Theoretic [FWSW02, WEPB12], Theoretical [ASW91], Theory [BR03, Mer87, Mor89a], thermochemical [vLRA +03], Thermodynamics [GKH +91], Thin [MD99, GSK +15], Thin-Film [MD99], Thinning [DBB00], Third [Lee03], thousands [GHS15], Threaded [BBG +10, LVA +13], Three [BCZM07, BBW +10], CSY10, DD91, EGG05, LT90, MT89, TWK87, BE17, LS93, YFS +14], Three-Dimensional [BCZM07, CSY10, EGG05, LT90, MT89, BE17, LS93, YFS +14], Throughput [GHM +10, McN89, CMN12], throughput-oriented [CMN12], Tianhe [CLM +16, HXW +13, LYL +16], Tianhe-1A [HXW +13], Tianhe-2 [CLM +16, LYL +16], tiled [TRS13], Tiling [SCF04], Time [ACD07, BPBL11, KK01, LIC +10, MBF +11, Nak99, NRR97, Sim90, VR00, Wri12, BE17, BSS15, LST15, MJGL13, QHCC17, WZHG17], Time-Dependent [MBF +11], time-stepping [BSS15], times [MP95], Tissues [BCZM07], Titanium [YHG +07], Tokamak [DS +91, KPF +96], Tolerance [Cap09, FGC +05, GKP97, GL04, JSSZ09, KWB06, LRG +16, MSHPV18, SKZ +18], SMZ +18, YZC +15], Tolerant [BHK +06, FD04, WvNM +06, ASH16], tomographic [BGM15], Tomography [CDH +97b, FFR +10], Too [RAGW93], Tool [LRO10, WBF04, Ytt97, Eri88, IMS16], TDM +17, UCZ +15], Toolbox [CD06], Toolkit [FK97, LJO05, Poz97, Pap11, JLO05, LJO05, NPT +06], Tools [CBM13, DW97, DMT01, DT06, GRC08, LDB +06, MWC +05, MM90, Pan97, PA11, SS89, SKZ +18], Toolset [NKP +00], Top500 [Fei99], Topologies [MOK00, SW04], Topology [Chu99, GMV18, KPR17], topology-aware [GMV18, KPR17], toroidal [IMW +13], Total [YCH90], Toys [SS99], Trace [JKD +11, NRR97, BDFVP15], Trace-based [JKD +11], tracing [PS12], Tracking [BGF02, BG02, CYT +02], Trade [SR05], Trade-Off [SR05], Traffic [BG02], training [PNFC16], Training [AM00], trait [WLG +18], Transfer [MAJS03, ATL +15, KT94], Transfers [VS03], Transform [DL97, BDFVP15, GLGLB +11, LDW +12], transformation [WDW +12], Transformations [YCH90], Transforms [KNP +87, MJ04], Transition [YSN90], Translations [KMP08], transmission [ABH +18], transparent [CIW17], Transport [ABF +99, DR06, DSD +91, KVV +90, MMD98, MWAR +87, MB87, BSH +16, DMSM18, DFT +15, SSR +14], traversal [GLZS14], Tree [SWW94], Trees [LK01, KPST18], Trends [Ano87e, Fol90a, Tho90, Bus87], Triana
[HTWS08]. triangle [PS12]. triangular [SZ11]. Tridiagonal [BS88, Kum89].

Trillion [TAM+16], Trondheim [Buz89].

Trough [BAM+16]. truly [KT94]. TSF [WG07]. tsunami [AHB+16, BAM+16].

tuned [YB12]. Tuning [Cza03, Kal09a, MJ04, RDG12, TM99, VDB04, Yel04, BH12, CH13, TRS13, THC+11]. Turbine [MKG90].

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Turkish [BE07]. Turnaround [MP95].

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Unified [SMZ+18]. Unit

[LP10, LQJG16, RDG12, RWM17, ZCZ+13]. Units [GLGLB+11, MA15, NTD10, Tho90, BE17, CLG13, CMN12, DMQS12, GHHS15, KDO16]. universe [RAB+15]. University [Nas92, ATD+88, Aus92, GNTLH97, SSN92]. Unroll [MCG04]. unsplit

[SZC12]. unstable [NC18]. Unstructured [DMM97, Mao02, MCW+00, WCE95, KC18, WDW+12]. unsupervised [ZCZ+13].

usable [KT94]. Usage [FCLG07]. Use

[Cho01, DD91, TKSK88, Mar87b]. Used [DFH+96]. User [FCLG07, LS06, LRG+16].

user-level [LRG+16]. User-Provided [LS06]. Users [Pan97]. Using

[BHK+88, BKS+07, BCR+14, BBC+00, CGB+94, CWHP99, CDH+93, CL95, CKE08, CYT+02, CBV97, CW05, FD04, GLZS14,

GNTLH97, HAF+96, HLW00, HE01, HC08, JLO05, Joh01, KD11, LRT07, LWL05, Man97, MAB07, MCG04, MSK92, QWIC02, QH08, Rao02, SBWS99, TM90, TML88, VLO+08, VS03, WGI90, WOG95, ABH+18, APD+15, BE17, BCYS11, BGB+18, CGGC+16, CIW17, CLBS17, DFT+15, FSC+11, GDKWS15, IMH+11, JC12, KDO16, KTML18, KL13, LST15, LPB+16, MDH+18, MJ16, MJGL13, Pap11, PNFC16, SABD13, SKS+13, YZC+15].


V [BHK+06]. validation [SCB14]. Value [Ber92, Bus87, uITH07, SG91, KES+17].

Variable [BRB+10, BGB+96, AMC+18, BSK14, ZZG+14]. Variable-Complexity [BGB+96]. variation [LTP17].

Variational [NK89]. vascular [JKB18].

Vector [AGL+87, Bai88, CSV01, DD19, Fro91, Gaf88, LT88, LRBS89, MC90, MG87, MCG04, OCC+08, GG11, GO16, KS89, SCR11, YLL+14]. Vectorization

[AD89, Reu92, Ha93]. Vectorized

[HMM87, MB87, TKSK88, YW93]. Vectorizing

[HVKW05]. Venice

[OL05]. Verbs

[OF17]. Verification

[CY08, BRR17].

Version [JLO05]. versioned [CBD+17].

Versus

[PC08a, RTRG+15]. GLGLB+11].

Very

[HRM89, KN+87]. VF

[DEK92, DD91, DD91]. VF/600J

[DEK92]. Via

[MR04, ATD+15, BWB+10, CSV01, Mat03, QHCC17]. viability

[LFB+15]. Vibrational

[DFC90]. Video

[dPID03]. Video-on-demand

[dPID03]. View

[Kep04b, DFT+15]. VII

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