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Title word cross-reference

2 [VSS+13, Wal18]. 2564 [IKY+10]. 3 [AKW19, ARR99, BGM15, CSGM17, FIMU19, GGS01, HSLK11, KC18, PR95, SSCF19, THL88]. 2 [AMC+18]. 3 [KPST18].
α [TKSK88]. d = 2 [BRT+92]. H [YIYD19].
$\text{CH} + \text{H}_2 \Leftrightarrow \text{CH}_3 \Leftrightarrow \text{CH}_2 + \text{H}$ [ASW91].
$\text{CuO}_2$ [SSSW91]. \textit{ILU} [SZ11]. k [TNLP13].
$K_2$ [CBW95]. \textit{LU} [BLRR01, DD89, DD91, IGDQ019, MC21, YZC+15]. \(M \times N\)
[BYCB05, DP05, JLO05]. N [HJ96, SWW94, DAB+12, FT19, RTRG+07, INS+20]. ∗
[NC18].

-Body [HJ96, SWW94, INS+20, RTRG+07, DAB+12, FT19]. -D [SSCF19, ARR99, GGS01, PR95, THL88].

-matrix [YIYD19].

0th [RAGW93].
SD87, TRS+10, UF89, WCE95, ABH+18, AHB+16, BGM15, DSH+16, GHL15, HLZ+20, INS+20a, KWEF18, LSLR+20, MJGL13, NMAE13, NS21, PH19, RPdB+19, URM+14, YZC+15, YB12, ZWS21.

Algorithm-based [Sta19, YZC+15].
Algorithmic [HHSM19].

algorithms [AM00, BG02, Cha88, CDT05, CAK+09, MS95, MP85, N989, NMS+94, RRV06, SC04a, Sha88, Wad99, CGW19, IMH87, Ish91, LM03, LWL05, MB87, RRV06, SC04a, Sha88, Wad99, CGW19, CEC20, CdV+18, CSC19, ES+12, FTB13, LRLG19, NC18, QSX+20, dAVCM+19, McR87]. aligned [RWM17]. aligner [IB+99].

Alinea [MA15]. All-Gather [TR+10]. all-reduce [CGW19]. All-to-All [BJ92].
Alliant [DD91].

Algorithm [AA+01, FBB03, WPBB01, YB07, Jea13, MRD+15, SPNB14]. Alpha [KHP+04].

Amazon [Pap11]. AMBLE [BGS08].

Amdahl [AB+18, HE01]. amine [PUR94]. ammonium [PUR94].

Amplitude [BGK+90]. AMR [RV15, ZC12]. analogs [PUR94].

Analysis [ACD07, BBC+90, Del93, DH96, DF08, EGM93, Eyr06, GHN+10, GNB11, HVWS09, HVS09, HLW00, IMV+13, IHMM87, Ish91, LM03, LWL05, MB87, Mic09, RS03, SSQ98, SCB+95, SE92, SC09, SGFC09, SBG10, SBBS06, THDC09, WBF04, YRA+02, ZRC+06, dRADS+18b, BB0414, BCLP17, CAA+20, CHWS20, DWT+19, EAG+19, FIMU19, GPO+20, IMH+11, IMH+12, JKD+11, JDJ19, LH18, LESL20, LRLG19, MPD+12, MP18, MCR+17, MJ16, MRD+15, PF16, STP+13, SDJ17, TKA+17, TDM+17, LS90].

Analytic [CHWS20, MA89, THDS19].

Analytical [FFR+10]. analytics [AGHR19].

Analyze [KKCB98]. Analyzers [Ano01a].

Analyzing [BRU05, NC18, URM+14, WPBB01].

Anatomy [FKT01, KWEF18, YF+96].

Andabys [Spr06]. Angara [SD1+19].

Animal [UB95]. animated [LSS93].

Animation [SS93]. anisotropic [DCLS19].

Annex [Ano02f, Ano02h, Ano02g, Ano02i, Ano02j, Ano02k].
Announcements [Ano92a, Ano92b, Ano92c, Ano92d].

Aperture [MPG93, ZC+13, SVB13].

API [BH00]. Appendix [Ano01a, Ano02f].

Appendixes [Ano01a]. AppLeS [SBWS99].

applicability [WKLW19].

Application [AS00, BKR09, BCC+01, BW+10, BPK+07, BB02, CWG09, DW97, DFMD94, FTB13, FSC+11, GH+10, GHZ10, K09a, KC+98, KS09a, MSHP18, Mi09, MS95, NKR90, OCC+08, PPK09, PHC+10, SC09, TM99, TKA+17, AKW19, CMS+11, DEL+12, GVF+18, MCR+17, OZ+16, SHK+18, WD21].

Application-based [MSHPV18].

application-level [DEL+12].

Application-tailored [FTB13].

Applications [AGR+03, Ano91b, Ano92g, Ano92e, Ano92f, Ano93a, Ano94a, Ano95b, Ano96a, Ano97b, Ano97c, Ano97a, BGG05, BP01, BDF01, BV11, BM12, BM13, BBH+06, BRU05, BJ92, BJK07, Bus87, CBL10, Cot04, Cza03, Dar99, Dee10, DH96, DE03, FGC92, Fra05, GKP97, GMLP08, GG14, HT04a, HLW00, HRM89, JMC05, KBA00, Key09, KUE+00, LDGR03, Lee03, LM03, kLCCW07, MKG90, MCR+06, Mar87a, MAB07, ME14, MYC92, Mor89b, NFK98, NPT+06, RBMF87, SC04b, SSN92, SVN09, SBG10, SKC10, TXD+07, TLG98, TAR+08, Wal03, WW+11, WBF04, ZOF90, dSSB+08, ASH16, Ano94c, dRADS+18b, ABD+18, AGHR19, BH17, BRGR11, BPR18, BSW+14, BKE+18, BGB+18, BG11, CDFV15, CRS+19, CBD+17, DAB+12, DMQ12, ECG+13, EJD+19, GC13, HGWN14, IMB+19, JRT16, KPR17, LRG+16, LESL20, LIW+11, MGB12].

applications [MFB+19, MCR+17, MDH+18, MUC+13, PH91, PNFC16, RV15, SD87, TRS+10, UF89, WCE95, ABH+18, AHB+16, BGM15, DSH+16, GHL15, HLZ+20, INS+20a, KWEF18, LSLR+20, MJGL13, NMAE13, NS21, PH19, RPdB+19, URM+14, YZC+15, YB12, ZWS21].
SDJ17, SKZ+18, SIC+19, SLG95, SMZ+18, TNL13, THC+11, UZM+14, VMPW20, WDW+12, WD19, Ano98b, Ano99, Ano91a, Ano98a, Ano00, Ano01b. Applications-[Ano91b, Ano92e, Ano92f, Ano93a].

Assessing [ACM88, MWC13, THC14, HGWN14, IGDQ019, KBY03, Hua03, HWP03, Ish91, KBA00, KFM11, CLG13, VFJ02]. Assessment [ZOF90].

Applying [Den90, LDGR03, LSES20, MBHF15].

Approach [BYCB05, DZ07, FBW87, KSO9b, LDB+06, NTKP06, Shao88, uITH07, Spr06, DCM+17, FTB13, GS18, HLC+19, HGWN14, IGDOQ019, KBY+19, MGB12, MP18, MJ16, PNFC16, ZB20].

Approaches [SWHP05, MJGL13].

Approximate [Cho01, HFV+12, MGFP20].

Approximation [DGJ09, LSLR20].

Aqueous [PRT90].

Architectural [Gro03, TXD+07]. Architecture [BAA+06, Hua03, HWP03, Ish91, KBA00, KFM+10, SC04b, HCCG20, MMDA19, RHK21].

Architectures [BFL99, GD09, HD05, Hv18, HILW00, HSLK11, MS02, RW03, RS03, SSQ08, AKC+19, BSK14, AAT+20, GGMJF+20, HFV+12, IMH+11, IMH+12, INS+20, JO92, KILL13, LNSMMA15, STF+13, Udd17, VOL+14, YFS+14]. Area [DFP+96, MYCR06, MAJJS03, NBB+96, Ade21, Rad18].

Argonne [Don89]. ARION [HLP+03]. Arising [Ma00]. Arithmetic [BSBF99, Gro03, LH19]. ARMCI [NTK06].

Army [Aus92]. Array [BBDR95, CYT+02, JO92]. Arrays [HC08, NPT+06, CBD+17, DFT+15, Wal18].


Assessing [ACM88, MWC+05, TDG+19].

Assessment [ZOF90]. Assist [BB02].

association [GDKWS15]. astronomy [CLG13, VFJ+15]. astrophysical [FT19].

Asynchronous [A020, TNBG07, BBDH14, MC21, NCA21, PH91, RW17].

Asynchrony [WAA+11]. Atmosphere [DEE+12, HAF+96, MS05, MW12, TD08, AGC+19, EAG+19]. Atmosphere-Ocean [HAF+96]. Atmospheric [ARR99, DFS+05, GGS01, WD05, AWWG19, MKM+19].

Atomic [TSH+19].

Atomic [TB09, IHMM87, LRT07, SYF96].

Atomistic [NKiN+08, GSK+15].

Attributes [Del93]. Audio [TC10]. Auto [THC+11, CH13, KFJ20, TRS13].

Auto-tuning [THC+11, CH13, KFJ20, TRS13].

Automata [AKP08, MHS11, RES87, GDS17].

Automatic [BHK+06, CBL10, CDC06, Cza03, KMPJ08, MJ04, RCAE+20, Yel04, CH13].

Automaton [BCZM07]. Automobile [HTSK90]. Autonomous [SKB01].

AutoParallel [RCAE+20]. Autotuning [OV13, BHK+13, CBM13]. Availability [Pra01].

Aware [KCC+06, TCW06, YBA+03, BGO20, CZR+11, GMV18, HTD+14, HILW+16, KPR17, MRD+15, BQOS21, SS10].

Awareness [HBS08]. Axisymmetric [SG91].

B [Ano02h, Ano01a, Ano02g]. B.E. [BPBL11].


Bandwidth [CIW17]. Barnes [INS+20]. Based [AM00, CY08, CLP+99, DCL+08, FSC+11, GGS01, GRC08, Gro03, Guo04, Hua03, Key09, MWM+08, Nk09, Num04, PGTS10, PPK09, PBL09, QH08, SG07, TCW06, TC10, VDB04, WPB01, ATL+15, BGM15, BE17, BEW16, BAP+12, CDL20, CBM13, CHT+19, CZR+11, CCBL18, DSH+16, DAB+12, EDB19, FTB13, GSA+19, GDS17, HTD+14, HDL+15, HLP+03, JKD+11. B.E. [BPBL11].

Back [BPBL11, BIC+10, BBD+17].
DT19, EEL15, HLS17, JRT16, JC12, MBC18, MGFP20, Pap11, PFGDM20.
CMP [ABG19]. Co [ABG19, ABG19, GD09, Mat03, BPR18, Jon12, UCZ15].
Co-Design [GD09, UCZ15].
Co-reservation [Mat03]. Co-scheduling [ABG18, ABG19, Mat03, BPR18, Jon12].
Coarse [BGB96, DZRS99]. Coarse-Grained [BGB96, DZRS99].
Coastal [Cow08]. Code [AD89, AJL97, BBA87, BH00, CK01, CEL97, Del93,
DZDR95, HL10, HE01, LWO5, MMD98, MS02, MT98, MFB11, MSK92, PPR03,
Pla99, WZH20, YW93, BSS16, DWT19, DAS14, FU12, HIT14, INY14, JKD11,
MBvdG13, MG15, PHF21, RHK21, SSR14, TRS13, TGP19, VRB19].
Codes [AS00, BGB18, CL95, DL97, HMM87, MCW00, Ren92, SWW94].
coexistence [CBA18]. Coherent [Wad99, PS12].
Collaboration [SG09b]. Collaborative [DFH96, HBSP08, NBB96].
Collaboratory [YFH96]. Collapse [Gun00, HTSK90]. Collection [DT06].
Collections [HLP03]. Collective [BMR06, FCLG07, KFM10, LCZ15,
TRG05, VFDO4, KMH14, SCB14].
collectives [DJJ19, WLH16]. Collide [NBB96]. collision [VOL14].
Color [IMH11, IMH12, Tho90]. Color/Albedo [Tho90].
Columbia [MAB07, HBC08].
combatant [BCYS11]. combination [ASHH16].
Combinatorial [BG11].
Combined [YK04, BLOR18]. Combining [Gir02, Mon12, SCB14].
Coming [de 89]. commercial [MRD15].
Commercialization [SG09b]. Common [ZM07]. Communication [BCG10, BYCB05, BKS07, BBDR95,
FIMU19, HC10, INY14, JLO05, LRO9, LRO10, LRT07, NTK06, PLS05, QH08,
RW03, SWHP05, TRG05, TGT05, BGO20, BBH13, CSC19, DGB14, IYK16,
NOM19, OGM16, RWM17].
Communication-overlap [INY14].
Communication/Computation [BBDR95].
Communications [Ano87, BMR06, Bus87, VFDO4, SCB14].
Communicators [GFD05]. Community [DBA09, BHS03, CJK05, DFW12,
DEE12, DJC05, ESW12, HVKW05, JLO05, MS05, MW12, TD08, WD05].
Comparative [MOK00]. Comparing [BF01, KdOCR20]. Comparison [BSK14, CAY17, Gen88, HC10, Jon92,
KM95, Mat95, SR98, SFLC18].
Comparisons [Ma00]. Compensation [MSMW07]. CoMPI [FSC11].
Compilation [BJK07, CW05, PG18].
Compiler [CW05]. Compilers [Ano01a, YHC07]. Complete [LK01].
completely [PH19]. Completion [CY08].
Complex [ASHH16, Dar99, GKB93, GHZ10, PK04, CSM17, EHTW21, WKLW19].
complex-entry [CSM17]. Complexity [BMR06, BGB16, DF08, Spr06, BRGR11].
Component [BAA06, DF08, KBA00, KFM10, MGB12,
PGTS10, PPR03, SVN09].
Component-Based [PGTS10, MGB12].
Components [CND05, WSD14].
Composing [HGWN14]. composite [NMAE13]. composites [LB16].
Composition [Cot04, DLB07].
Compositional [AWS01, BBD00, KR94, KR95].
Compounds [FW91]. compressible [HHS19].
Compression [Arn07, DLY98, DF08, FSC11, CGGC16, CCO19,
CDL19, IFA15, KV19, Osz16, TDG19].
Compressors [GMWG10, YK07].
Compromised [LJC10].
Compromised-Time-Cost [LJC10].
COMPSs [CCBL18]. Computation [BBDR95, CBW95, Chn99, ISD99, GWKN08,
Her88, HS93, JPR93, Nag89, SSNM92, Ste09a,
Computational
[Blum, CD97, Cha88, CDH+97b, DVW+97, DFMD94, DGJ09, DT99, DGH+98, Duk91, EGP93, FBW+87, Gen88, HBBM03, 
HOPB92, HL10, JL89, NFK98, Num04, PK04, PBE+99, RBM87, SK90, SG07, 
SBWS99, SW04, TMW+99, YR00, Witt92, WPBB01, YM91, YK07, Ytt07, AFI+17, 
BSW+14, C16, CBA+18, DTL19, 
JKBW18, TBA+17, VRL18].
Computations [BBR10, Ber92, Duk91, 
MA15, MCC04, SD87, ALE+20, BCY11, 
BCLP17, DKMT18, HDL+19]. compute
[KL13]. Computer [BEF+95, Bus87, 
CKE08, Cla91, Don89, GL92, HKK88, Hd05, 
JL89, KT99, MM90, PS87, TWK87, VC89, 
WBMY90, AHB+16, BAM+16, BE17, 
HIT+14, HLS+17, IY+14, KMM16, 
Kum89, MBHF15, PNFC16, TAM+16].
Computer-Aided [MM90]. Computers [Ano87f, BOD+91, BBA87, BH99, CDH+93, 
CDP+94, EDS95, FG97, FFNP97, GPR3, 
Gum00, IS96, Jon92, Men88, CGST19].
Computing [ATN+00, Ano87a, Ano87d, 
Ano94c, Ano95b, Ano98b, Ano98a, Ano99, 
Ano00, Ano01b, Aus92, BV11, BM12, BM13, 
BGI+99, BQSOS21, BAA+06, BRT+92, 
Bus87, CWHP99, DF18, Dar90, Den90, 
Don89, DT99, DMT01, DT11, DT17, 
DCL+18, Ede03, EDSV06, EW06, Ew88, 
Eyr06, FGC+05, FGJ+04, Gaf88, GHM+10, 
GMWG10, GNL197, GL97, HME90, Her09, 
JLL04, JSSZ09, Joh01, KDM11, Kep04a, 
K19, Kuc04, KH+09, KS05, LS90, 
LJC+10, LD07, M15, Mah90, MYCR06, 
Mar87a, Mat95, ME14, PPK09, PA11, Rao02, 
RACW93, Sab91, Sa18, SKB01, Ste01, 
Ste04, SFP02, SKC10, THDC09, Wal03, 
YBA+03, ABH+18, AFGQO19, AMB+18, 
ARPY19, BAI20, BE17, BTRZ+19, BLOR18, 
BAP+12, CGW19, CEC00, DTPD14, DHL16, 
DT19, DAC+14, ECG+13, EDB19, EKD+12, 
Fem90, FKA+17, GR17, GSN20, Har11].
computing [IYK16, IFA15, Jds+17, 
KT94, LDDL19, LBB17, MKE+17, MFB+19, 
MCU+13, PPC+16, RJJ+20, S14, 
STS17, TNL13, VSN14, WZH17, 
WD19, ZK14, Le03, Ano94a, Ano95a, 
Ano96a, Ano97b, Ano97c, Ano97d].
Computing- [Ano94c, Ano95b].
Computing/Numerical [THDC09].
concurrency [DBG+14]. Concurrent
[AH93, BMWD87, Fro91, BRGR11].
Conference [Gaf88, OL05, KKD03].
Configuration [AEPR92, LTPK17, LBB17].
Configuring [PPK+04]. Confined
[ACG+90]. Confinement [BGB+18].
Conjugate [AH93, CSV91, MG87, DHL16, 
IVG+20, KMM16, PNV+16, PF16].
conjugate-gradient [DHL16]. Connecting
[BKS+07]. Connection [Ano87d, Don87, 
BJ92, CC95, GKH+91, HZ91]. Conquer
[Cza03]. consensus [KDNE18].
conservation [LH19]. Consistent [KS09a].
Consortium [GS90]. Constant [MP94].
Constrained
[FSS13, LJC+10, NKR90, IK18]. constraint
[DAB+12]. constraint-based [DAB+12].
Constraints [CY08, GSHL03, BLOR18, 
CCVR20, LCZ+15]. construction [PS12].
consumption [BDC21, BLOR18, CGGC16].
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]. continuous
[AWG19]. continuum [BTRZ+19].
contrast [RPP+19]. Contributors
[Ano91b, Ano91a, Ano92g, Ano96c, Ano96a, 
Ano97b, Ano97c, Ano98a]. Control
[A91, AK93, Dar00, DFF+96, VR00, 
HRW19, R0+20, WD+12]. Controlled
[DSD+91]. Controllers [FMOA18].
controlling [OF17]. converge [CCBL18].
Convergence [BRR10, DFS+05]. convex
[SH93]. Convolutional [BDC21].
Cooperative
[DBA+09, DCL+08, kLCCW07, IK18].
Coordinate [YRA+02]. Coordinated
[FP02]. coprocessor [VEMR17].
coprocessors [HLS+17]. Copy [SWHP05].
CORBA [PPR03]. Core
[Bri10, DFS+05, MS05, AKC+14, BBG+14, BH12, CAE+13, DEE+12, DDKK19, INS+20, KDH11, KILL13, LMT+12, LDW+12, LNSMA15, MSPS15, PSV+16, SSR+14, TKA+17, Udd17, VEMR17, VRB+19, VOL+14, YFS+14, GLZS14].
cores [DIJ+18, FLY+14, LYL+16].
Cornell [Mer87]. correction
[AG18, YFS+14]. Correlating [CS14].
correlation [CLG13, GHL15].
Correspondence
[BH09, IS96, PTGB02, WLB92].
Corrigendum [Ano19, Ano20a, Ano20b].
Cortical [WW92]. Coscheduling
[BL09, CAY+07]. Cost
[LJC+10, PPR09, TR17].
Cost-Constrained [LJC+10]. Coulomb
[DGD+04]. Coupled
[HAF+96, IKY+10, JDD18, KT99, LJO05, PK04, KC18, NOM+19]. Coupler
[CKJ+05, CVJ12]. Coupling
[HD05, LJO05, LJO05, PPR03]. CPL6
[CKJ+05]. CPU [BL09, BJWS20, GHL15, HTD+14, PFGERM20, SHK+18, VRB+19].
CPU-GPU [HTD+14]. CPU-MIC
[SHK+18]. CPUs
[KDH11, SFLC18, TKA+17]. Crash
[HTSK90, CEL+97]. Cray
[ABF+08, AERP92, DD89, DD91, Del93, GCL93, LT88, Ma00, MYC92, MSK92, THL88, YW93, ABF+99, DH96, Lai93, McNW9, SBBS06]. Cray-1s [McNW9].
CRAY-2 [DD89, DD91, GCL93].
CRAY-T3E [Ma00]. CRE2017 [Mas19].
CRE2019 [KM20]. creation [KILL13].
Creutz [BRT+92]. Crisis [BE07]. Criteria
[BKRS09]. critical [SDJ17]. critical-path
[SDJ17]. Cross
[PLS05, CLG13, LSLR+20, SK20, VWL+16]. cross-bundle [WVL+16].
cross-correlation [CLG13]. cross-machine
[SK20]. Cross-Platform [PLS05]. crowd
[VOL+14]. CRPC [CDP+94]. crucial
Crystal [Cla91]. crystalline [HXW+13].
crystallisation [WSD+14].
Crystallography [CDH+93]. CUBE
[JBOT19]. CUDA [DSH+16, GDKWS15, KKB+21, MV20, SDJ17, ZZG+14].
CUDA-accelerated [GDKWS15].
CUDA-enabled [DSH+16]. CUMULVS
[GKP97, KWB06]. Current
[Cap09, GFD05, GCSK13, IVA+13].
cutting [HLZ+20]. CYBER
[ABAS87, McN89]. cycle [ABH+16].
CYDRA [HRM89]. CYDRA-5 [HRM89].

D [KR94, KR95, SSCF19, VSS+13, AKW19, ARR99, ARPY19, BGM15, BG00, CSGM17, CM97, FIMU19, GGS01, HSLK11, KC18, PR95, THL88, Wal18]. D-GM [ARPY19].
DAC [Cza03]. DAG [TR17]. DAG-based
[TR17]. Daily [Mar89b]. DAME [PG18].
DAMPVM [Cza03]. DAMPVM/DAC
[Cza03]. DARE [CGT+18]. Data
[ACF+11, AF09, Ano87e, BCG+10, BHK+88, BCM+03, BH06, CFX+94, CBW95, DP05, DH96, DZ07, DT17, DFT+15, Fei99, Fol90a, GMLP08, GG11, HJ96, JW06, JOH01, KUE+00, LR07, MAJS03, RRV06, SS89, SS10, VS03, WHL03, ZRC+06, AKW19, APD+15, ATL+15, AMB+18, BTRZ+19, CDL+19, CCLB18, DCN17, DT19, EMP+18, FKA+17, HLW+16, KV19, LGDH16, MRD+15, OZS16, PH01, PBB+20, PG18, RVM17, STP+13, SZ11, TDG+19, TDM+17, WDH+15].
data-driven [BTRZ+19]. Data-Intensive
[GMLP08, KUE+11, FKA+17].
Data-Parallel [HJ96]. Database [MS09].
Databases [RGB+18]. Dataflow
[ACM88, Sha88, JDD18, WZH17].
dataflow-based [JDD18, WZH17].
Datagrid [PHB04].
Datasets [SE92, ZM07].
Datatype [SWH05].
Davidson [UF89].
de-deadline [CCR20].
Deadlock [LBB17].
Deadlock-free [LBB17].
Dealing [GSHL03].
Debuggers [Ano01a].
Decision [GWKN08, JCK21].
Decision-Making [GWKN08].
Decomposition [BLRR01, Cha88, GCD97, 
Meu88, NK9, DFT+15, IKM+19, KLR+21, 
Lai93, YZC+15].
Decoupled [PHB09].
Dedicated [CAX+07, GSHL03, DJJ+19].
deep [CHT+19, VRB+19].
def [ADMP18, JDAD19].
Defining [KKS04].
deformable [SE12].
degrees [TAM+16].
degrees-of-freedom [TAM+16].
Delay [Rao02].
Demand [EW06, dPIdA03].
Dense [Ano02k, BGG05, BDL99, SDL00, 
Ede93, LRLG19, MBvdG13, SCR11].
density [LNSMMA15, QSX+20].
density-functional [QSX+20].
Department [Kit90].
Dependent [MBF+11].
Deployable [GCRL93].
Deploying [CdVL+18].
Deployment [CDCV06, GCL93, GLP08].
deposited [GSK+15].
Deposition [MD99].
depth [JDAD19].
derivatives [Haj93].
Derived [SWH05, MDH+18].
deriving [GDQ019, MBvdG13].

describing [ABH+18].
Design [AEG+03, BGI+99, BBH+13, BBMB19, 
BRM03, BH06, CE00, CLP+99, CTD+05, 
Dar00, DZRS99, DHF+96, DJC05, EGMP93, 
FGC+05, GJMS88, GCCC+03, GHM+10, 
GD09, KS09b, PP09, SD87, BG11, DTL19, 
UZM+14, UCZ+15, Mar87a].
Describing [RWM17, SWH05, SKS+13, ZWS21].
Desmos [SDI+19].
Detailed [EDS95, SBBS06, CHWS20].
Detection [CBL10, YZC+15, AG18, BSS15, HGMW12, 
KDNE18, VOL+14, WLG+18, ZCZ+13].
Detector [DZDR95, Ano19, BBG+18].
Determination [BHK+88, CSY10].
Determined [CGB+94].
Deterministic 
[DR06, DMSMG18, MV20, SLL+19].
DEUS [RAB+15].
developed [CVJ12].
Developing [THDC09, PPC+16].
Development [Ano01a, BCC+01, BBD00, 
Dar99, HL00, HRM89, Kal20a, LC90, LD07, 
MM90, MS19, PP09, Eri88].
Development/Tuning [Kal20a].
Developments [YSS+06].
device [Lai93, OF17].
Devices [PHC+10, KKCC90, Rad18].
DG [MV20].
DG-MOSFETS [MV20].
diagnosis [DCM+17].
diagonal [YLL+14].
Diagrams [FWZ91].
Dialogue [LS06].
Diego [Mai87].
Dielectric [ZOF90].
Diet [CD06].
Difference [CC95, THL88, EKF+99].
different [LWT+11].
Differential [Key09, Meu88, KS89, RMS+15].
differentiation [HHSM19].
diffraction [EEL15].
Diffusion [BFNV07, EDS95, SG91, TWK87, LMT+12].
Diffusion-Limited [TWK87].
diffusion/filtering [LMT+12].
Digital [MGP93, YFH+96, GLH15].
dilation [LST15].
Dimensional 
[BCZM07, CSY10, EGG05, LT90, MT89, 
BE17, KS89, KRR19, LSS93, YFS+14].
Dimensionality [BFLL99].
Dimensions [TWK87].
Dip [LT90].
Dipole [DJG09].
Dirac [PHF21].
Direct [Bri10, CM97, HVWS09, HVSW09, LWL05].
Direction [Mah90].
Directionally [SZC12].
Directions [Fol90a, PBB+20].
Discharge [YW93].
discontinuous [AWW19].
Discovery [AEG+03, AAF+01, ASAK19, 
PBB+20, AE+03].
Discrete [DJC08, Ham91, DMSMG18, Mon12].
discretizations [LH19].
discriminating [SKS+13].
dembarking [GDS17].
Disk [KNP+87].
Dislocation [HSLK11].
Disordered [KVY+90].
dispel4py [FKA+17].
Dispelling [Ano87c].
Dissemination [GL97].
Dissolution [Cra10].
Distance [HME90, KR11].
[BGG05]. **Electron** [FFR⁺¹⁰, KVV⁺⁹⁰].
**Electronic** [FWZ91, TMW⁺⁹⁹, HTD⁺¹⁴, HIT⁺¹⁴, PHF21]. *electrophysiology*
[BGW⁺¹⁴]. **Electroweak** [BGK⁺⁹⁰].

**Element**
[BJS⁺⁹⁷, BBA⁺⁸⁷, DFS⁺⁰⁵, EGG⁺⁰⁵, FSN⁺⁰⁸, GCD⁺⁹⁷, KM⁺⁹⁵, MMD⁺⁹⁸, MS⁺⁰², THC⁺⁹⁶, de ⁸⁹, Ade⁺²¹, AFA⁺¹⁸, BSW⁺¹⁴, DWT⁺¹⁹, DEE⁺¹², EAG⁺¹⁹, MGS⁺¹⁵, Mon⁺¹², PH⁺¹⁹, SM⁺²⁰, SCKW⁺¹⁹, WZH⁺²⁰]. *elements*
[BZ⁺²⁰]. **Eliminating** [HME⁺⁹⁰], embedded
[BKP⁺¹⁷, KK⁺⁰¹]. **Embedded**
[BK⁺⁰¹].

**EMD** [LSES⁺²⁰]. **EMD/HHT** [LSES⁺²⁰].
**emergency** [GDS⁺¹⁷], emerging [AAT⁺²⁰, HFL⁺¹², IMH⁺¹¹, IMH⁺¹², WDL⁺¹⁹].

**emitting** [Rad⁺¹⁸]. Empirical
[VBD⁺⁰⁴, CBM⁺¹³]. **Employing** [GVF⁺¹⁸].

**emulation** [BAP⁺¹², LST⁺¹⁵]. **Enabled**
[CD⁺⁶⁶, CD⁺⁹⁷, CBB⁺⁴⁴, DDF⁺⁰⁶, MWM⁺⁰⁸, DSH⁺¹⁶, LDL⁺¹⁹]. **Enabling**
[AGR⁺⁰³, BTR⁺¹⁹, DGB⁺¹⁴, FKT⁺⁰¹, PBB⁺²⁰, Ste⁺⁰⁹b]. **Encoder** [BKRS⁺⁰⁹].

**Encoding** [DLY⁺⁹⁸]. encryption [KV⁺¹⁹].
**End** [BV⁺¹¹, GHM⁺¹⁰, LD⁺⁰⁷, NKP⁺⁰⁸, PA⁺¹¹, Rao⁺⁰², SC⁺⁰⁹]. **End-To-End**
[GHM⁺¹⁰, Rao⁺⁰², SC⁺⁰⁹]. **Endangered**
[BB⁺⁰²]. **Endmember** [HČ⁺⁰⁸]. endpoints
[DGB⁺¹⁴], energetic [GSK⁺¹⁵], *energies*
[PUR⁺⁹⁴]. **Energy** [BEH⁺⁹⁰, ECG⁺¹³, HTSK⁺⁹⁰, IHMM⁺⁸⁷, KLR⁺²¹, LTPK⁺¹⁷, LWT⁺¹¹, Mir⁺⁹⁰, SFGC⁺⁹⁰, YCH⁺⁹⁰, ZOF⁺⁹⁰, ATD⁺¹⁷, BDC⁺²¹, BRGR⁺¹¹, BLOR⁺¹⁸, BBMB⁺¹⁹, CH⁺¹⁹, EJ⁺¹⁹, JdS⁺¹⁷, LR⁺¹⁹, SKSG⁺¹⁹, Kt⁺¹⁹]. *energy-efficient*
[BBMB⁺¹⁹]. **Energy-optimal** [LTPK⁺¹⁷].
**energy-saving** [SKSG⁺¹⁹]. **Engine**
[DCL⁺⁰⁸, HBS⁺⁰⁸, WZH⁺¹⁷, SS⁺¹⁰].

**Engine-Driven** [DCL⁺⁰⁸]. **Engineering**
[Bro⁺⁸⁸, Dar⁺⁰⁰, DW⁺⁹⁷, Joh⁺⁰¹, MMS⁺⁸⁸, Nas⁺⁹², PK⁺⁰⁴, ADMP⁺¹⁸, EHT⁺²¹, VMP⁺²⁰, WH⁺²⁰, Mar⁺⁸⁸a]. **Enhance**
[WVL⁺¹⁶]. **Enhanced** [BP⁺⁰⁷].

**Enhancement** [AAC⁺⁹⁷, WT⁺⁹⁹].
**Enhancements** [BD⁺⁹⁵]. Enhancing

[FSC⁺¹¹, HIL⁺¹⁶]. **Ensemble**
[BBR⁺¹⁰, VSS⁺¹³]. **Entity** [BGF⁺⁰²].
**Entropy** [CBW⁺⁹⁵]. entry [CSGM⁺¹⁷].

**Environment**
[AAP⁺⁰¹, CCH⁺⁸⁸, DD⁺⁰⁹, DL⁺⁰⁷, DL⁺⁰⁷, GL⁺⁹⁷, MM⁺⁹⁰, dP⁺⁺⁰³, AB⁺¹⁸, ASA⁺¹⁹, AR⁺¹⁹, KL⁺¹⁹, LS⁺⁹⁹, WVL⁺⁹⁶].

**Environmental** [DLY⁺⁹⁸], TMM⁺¹⁰. **Environments**
[An⁺⁰⁺¹, CWH⁺⁹⁹, CDH⁺⁹⁷b, DD⁺⁰⁶, DREE⁺¹⁹, DCL⁺⁰⁸, EYR⁺⁰⁶, FSS⁺¹³, Gan⁺⁸⁸, HBS⁺⁰⁸, Mat⁺⁹⁵, MA⁺⁹⁵, RIF⁺⁰¹, THC⁺⁹⁶, Ww⁺⁹⁺⁰⁶, ADMP⁺¹⁸, CCB⁺¹¹, H1⁺¹², H1⁺¹³, IV⁺²⁰, I⁺¹⁵, NC⁺¹⁸].

**Epidemic** [KD⁺¹⁸]. epidemiological
[BE⁺¹⁶]. **Epiphany** [VEM⁺¹⁷]. *epistatic*
[WLG⁺¹⁸].

**Equation**
[BFLL⁺⁹⁹, BEF⁺¹⁰, Key⁺⁰⁹]. **Equation-Based**
[Key⁺⁰⁹]. **Equations**
[BKRS⁺⁰⁹].

**Equilibrium** [JP⁺⁹³, NK⁺⁹⁹]. **Era**
[B⁺¹³, ME⁺¹⁴, W⁺²¹, BM⁺¹², Con⁺⁸⁸].

**Erratum** [KR⁺⁹⁵]. error [BSS⁺¹⁵]. **Errors**
[FCL⁺⁰⁷, LFB⁺¹⁵, SLL⁺¹⁹, YZ⁺¹⁵].

**Estimates** [LS⁺⁶, Mc⁺⁸⁹]. estimating
[BDC⁺²¹]. **Estimation**
[LR⁺⁹, LRO⁺¹⁰, BE⁺¹⁷, LNS⁺¹⁵, SH⁺⁹³].

**ETA** [DD⁺⁸⁹]. **ETA-10P** [DD⁺⁸⁹]. **Ethylene**
[DVC⁺⁸⁸]. **Euler** [ZB⁺²⁰]. **Eulerian** [INY⁺¹⁴].

**European** [IS⁺⁸⁹, MH⁺¹⁵, PH⁺⁰⁴].
**EUROPVM** [OL⁺⁰⁵]. **EUROPVM/MPI** [OL⁺⁰⁵]. **EuroPVMMPI** [KK⁺¹⁰]. **EV**
[KHP⁺¹⁰]. evacuation [GDS⁺¹⁷]. **Evaluate**
[WGI⁺⁹⁰].

**Evaluation**
[BB⁺⁺⁰³, GDF⁺⁰⁵, LRG⁺¹⁶, NCA⁺²¹, VC⁺⁸⁹, YFS⁺¹⁴, KDO⁺²⁰]. **Evaluation**
[ATN⁺¹⁰, AB⁺⁺⁰⁸, An⁺⁸⁷b, BCK⁺⁸⁹, BI⁺⁺¹⁰, BFN⁺⁰⁷, BG⁺⁰², BDG⁺⁺⁰⁰, CDQ⁺⁰⁴, CLP⁺⁺⁹⁹, KHP⁺⁺⁰⁴, NOM⁺¹⁹, RBL⁺⁰⁸, SWH⁺⁰⁵, WOG⁺⁹⁵, YI⁺⁺¹¹, AKP⁺⁺¹⁸, BB⁺⁺¹⁴, Hī⁺⁺¹⁴, JCK⁺²¹, KKB⁺⁺²¹, NMI⁺⁺¹⁹]. **Evaluations** [PPK⁺⁰⁹].
Event [NRR97, BEW16, DAB+12].
event-based [BEW16]. event-driven [DAB+12]. Events [BG00, JDAD19].
Eviction [BH06]. Evolution [DAC+14, LBP18, WJS+90]. evolutionary
[CdVL+18, JCK21, HdV18]. Exact [ZK93].
Example [NBB+96]. ExaSAT [UCZ+15].
Exascale
[AF09, Cap09, CGG+09, DBA+09, DBM+11, GD09, GL09, Her09, Kal09b, KS09a, KS09b, LA09, Luc09, Luc09a, MMN09, PPS09, SG09b, SC09, Ste09b, BCR+14, MEK+19, SWA+14, UCZ+15, VFI+15, YB12].

Excited
[WLC91]. Excited-State
[WLC91].

Execution
[AMC+18].

Expansions
[KMPJ08].

Expectation
[Pan92].

Experience
[HGD91, YHG+07].

Experiences
[DD96, GKN+96, Reu92, ZKRA14].

Experiment
[HME90].

Experimental
[BCC+06, EGMP93, JW06, KKC98, KLJ87, PB19].

Experimentation
[Ano87a].

Experiments
[AAB+01, AK91, Gir02, PR95].

Explicit
[WB006, EAG+19, AGC+19].

Exploiting
[Bri10, SCR11, WWA+11, LFB+15].

Exploration
[KFM+96, BBMB19].

Explore
[JLL04].

Exploring
[COC+19, CBD+17, HAF+96, IMS16].

Expression
[RS03].

Expressions
[BBD95].

expressive
[CRS+19].

Extended
[Ano92b].

Extending
[GRC08, Pap11, LRG+16].

Extensible
[CJK+05, KHS+19].

Extension
[SVN09, AHB+16].

Extraction
[CBL10, HC08].

Extreme
[Her09, Key09, KC92a, KC92b, MPS15, ZKRA14, AMB+18, BEK+18, DCM+17, HRW19, INS+20, KDNE18, PBE+19, WD21].

Extreme-scale
[ZKRA14, AMB+18, BEK+18, DCM+17, INS+20]. extremely
[Ade21].

face
[CdVL+18].

Facility
[Ano87a, Don89].

FACOM
[HHM87].

Factor
[DH96].

Factorization
[DD99, DD99, IGDQ019, Jea13, YIYD19].

factorizations
[DEKV92].

Failure
[GCSK13, KS05, Ano19, BB+13, BB+18, KDNE18].

failures
[SVA+14, TNLP13].

far
[KBB+21].

farm
[KBY+19].

Farming
[KCPD09, MBHF15].

Fast
[BGM15, BEW16, BM189, CvG11, DIB00, NDMR20, PS12, PFGDM20, SWW94], IYK16, KKB+21, KDH18, SCR11, TSK88, TDM+17, YB12, CKE08, KNP+87, LDW+12, M304].

Fault
[BHK+06, Cap09, FD04, FGC+05, GKP97, GL04, JSSZ09, KWB06, WvNM+06, ASHH16, AG18, LRG+16, MSHPV18, SKZ+18, Sta19, SMZ+18, YZC+15].

fault-tolerance
[SM+18].

Fault-Tolerant
[BHK+06, FD04, WvNM+06, ASHH16].

faults
[RMS+18].

Faulty
[LK01].

FEA
[CSGM17].

Feasibility
[KR94, KR95, CCO+19].

Feature
[PTGB02, STP+13].

Feature-based
[STP+13].

features
[CH13, IMS16, PNFC16, PUR94, ZKRA14].

February
[Sci92].

federation
[Hari11].

Feedback
[CGB+94]. Feedback-Scaling
[CGB+94].

Feel
[ZWS21].

Feel-the-Way
[ZWS21].

FEM
[RMV+19].

Fermi
[NBD10].

Fermions
[ZK93].

Fernbach
[Mar91].

FEFI
[GCD97, RMV+19].

FFT
[Bai88, GCG01, KMPJ08, Wsd99].

FFT-Based
[GG01].

Field
[HC08, HSLK11, KKB+21, PUR94, VSHN14].

File
[BIC+10, GCCC+03, LRT07].

Filter
[kLCCW07, HLW+16].

Films
[MD99].

filter
[LGDH16].

filtering
[LMT+12].

Financial
[BE07, HZ01].

Finding
[dRADS+18b, 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, MMD98, MS02, MS05, PH19, PLS05, TH+96, THL88, de 89, AFL+18, BSW+14, DWT+19, EKF+19, LH19, SMK+20, SCKW19].

**Finite-Element** [MS02, BSW+14].

**Finite-Volume** [MS05, LH19]. **First**

[DQFW90, GKN+97, LH18].

**Flame**

[BBG+10, BBG+11]. **Flexible**

[GMLP08, CVJ12, DGB+14]. **Flink**

[KWEF18]. **FLOAT**

[FLO67, WLB92]. **Floating**

[BSBF89, CDL+19, LH18]. **floating-point**

[CDL+19, LH18]. **flood**

[HPW+16]. **Flow**

[ABF+99, DD06, HKK88, PGTS10, RKKC90, SS89, SK90, CDL20, FIMU19, HHSM19, KDHI8, LSS93, WD+12, ZB20].

**Flowfield** [MKG90]. **Flows**

[CB95, GMGW10, MYC92]. **Fluid**

[Cha88, DFMD94, Gen88, HL10, JLA9, KT99, LWL05, PGTS10, RBMF87, SWW94, SS89, SK90, YW93, KC18, LSS93].

**Fluid-Structure** [KT99, KC18].

**Fluorinated** [DFC90]. **fly**

[GSA+19]. **Fock**

[MMDA19, CLM+16, KKKB08, TMW+99].

**focused** [JRT16]. **Footprint** [JMC05].

**force** [PUR94]. **Forecasting** [MHW15].

**Forecasts** [MHHW15]. **forests** [PNFC16].

**format** [GG14, GGO16]. **Forming** [CM97].

**Fortran** [KR95, DL97, KR94]. **Fortran90**

[LJ005]. **Forum** [Don02a, Don02b].

**Forward** [AK93, Luc09, THL88, HRW19].

**Foundation** [Web91, Bio87]. **Four**

[Tho90].

**Four-Band** [Tho90]. **Fourier**

[KNP+87, LDW+12, MJ04, SSSF19].

**FPGA**

[HC08, MHS11, PC08a, RHK21, RGB+18].

**FPS** [LT88]. **Fracture**

[BG00, LPB+16].

**Framework** [CAK+07, DGGJ09, IYV04, PGTS10, SBB+05, SB04, TMMR10, vLRA+03, FKA+17, GEKO19, JBOT19, MBC+18, MS19, PPC+16, PB19, SE12, SMZ+18, TD+19, YWL+14, CTD+05].

**Frankenstein** [Wit92]. **Free**

[MT89, LBB17, PHF12, SMK+20].

**Free-Lagrange** [MT89]. **freedom**

[TAM+16]. **Frequency**

[TC10, CSGM17, SKSG19]. **front**

[FIMU19].

**Frontwidth** [BMWD87]. **FTS**

[BE18].

**Fueling** [Her91]. **Fujitsu** [Ish91]. **Full**

[AEPR92, JRT16, LK01, RAB+15, TH+11].

**Full-wave** [JRT16]. **Fully**

[HR97, YW93, CH13, EAG+19]. **Fun**

[RAGW93]. **Function**

[ODD07, PPK09, ZOF90, EKF+19].

**function-generated** [EKF+19].

**Functional** [LR07, QSX+20]. **Functions**

[LS06]. **Fundamental** [MR90].

**Fusion**

[ACG+90, GBG+18, DSD+91, FWSW02, FP02, YK04, WET+19]. **Future**

[BSBF89, HBSM03, Wil87, BAP+12, DPA+18]. **FV**

[LMT+12]. **fv3** [SDF+17]. **FVCOM**

[Cow08]. **FX** [DD91]. **FX** [DD91].

G [MCS+06]. **G2** [Cor04].

**Galaxies**

[Her91, NBB+96]. **Galerkin** [AWGW19].

**Games** [EGMP03]. **GANESH** [BPK+07].

**Gap** [SS99]. **Gas** [CH94, LRB+89, MKG90].

**Gases** [WBMY90]. **GASPI**

[SKZ+18, SIC+19]. **Gate**

[HC08]. **Gather**

[TRS+10]. **Gauge** [Mor89a].

**GEMM** [NTD10]. **Gene**

[MAB+13, RS03, YIN+11, GNB11, KMH+14, SSU+12]. **Gene/P**

[MAB+13, GNB11, SSU+12]. **Gene/Q**

[KMH+14]. **General**

[PLS+05, VCB+89, BB+17, CRS+19, MHH+11]. **general-purpose** [BE17]. **generalized**

[HTD+14, NS21, LGPL+11]. **generated**

[EKF+19]. **Generation** [DE03, HT04a, KMPJ08, BAP+12, LDLD19, MFB+19, MMDA19, TRS13, VRB+19, ZKRA14].

**Generator** [PMS+04, DL09]. **Generic**
Hardware [BH06, KS09b, Spr06, HDL+15, MCU+13, MFOAGE18]. Hari [NS21].

Harmonics [KMPJ08]. Harnessing [HL0+19]. Hartree
[CLM+16, KKCB98, MMDA19, TMW+99].

Head [GKB93]. Heavy [QH08, Reu92].

Heavy-Ion [Reu92]. Helicity [DVC88].

Helium [Fro91]. Helix [PRT90].

Helmholtz [BEF+95]. hemodynamics
[AFL+18]. Hermetic [YK07]. Hermitian
[RDG12]. Heterogeneity [TCW06, WD21].

Heterogeneity-Aware [HLH10, YK07]. Heterogeneous [BM13, BLRR01, BMRO6, BG09, CHZ02, CLBS17, Dec01, EGG05, KT99, KS05, LR07, LR09, LRO10, ME14, NBB+96, RAGW93, RR06, VLO+08, dRADS+18a, BJWS20, CMS+11, CGST19, EDB19, GBB18, HGWN14, IMW+13, INST+20, LST15, LDW+12, MFP+17, NC18, SB19, UZM+14, BM12]. HeteroMPI
[VLO+08]. Heuristic [SG07]. Heuristics
[CJ06]. HHT [LES20]. Hi [TDM+17].

Hi-C [TDM+17]. hierarchic [EDB19].

Hierarchical
[DD06, GJMS88, HJ96, HWP03, IGDQO19, PBAL09, SG09a, WT99, DSH+16, GBB18, LSLR+20, MJD16, Wal18, ZBMK11].

Hierarchy [HL10, YK04]. High
[Ano87d, Ano87f, Ano94a, Ano94c, Ano95b, Ano95a, Ano96a, Ano97b, Ano97e, Ano97a, Ano98b, Ano98a, Ano99, Ano00b, ARR99, Aus92, Bia88, BV11, BGI+99, BCC+01, BAA+06, BEF+90, BEF+95, BRT+92, CWHF99, CC95, CDP+94, CSY10, CB95, CKJ+05, DTD14, DFS+05, DG09, DBA+09, DHL16, ISD89, EKD+12, FGC+05, FGJ+04, GBB18, GHM+10, GL15, GMWG10, GSK+15, HSLK11, IS96, IKY+10, KDH11, KBA00, Kep04a, KWB06, Kuc04, KMM16, LST15, LPB+16, LD07, MAB07, M Spl15, NKK+08, NFK98, NTPK06, PPKe+04, PPK09, PA11, Poz97, Pra01, QWIC02, Sab91, STS17, SKB01, Ste01, Ste04, SKC10, TR17, TLD88, TMW+99, THDC09, VRB+19, Wad99, WLC91, WLG+18, WOS08, YSP+05, AFGQO19, AGHR19, BAM+16, BLC17, BAP+12, CGW19, Ccz20, CZR+11, DVW+12, DAC+14, ECG+13, Fem90, FMR+20]. high
[GR17, GSN20, Hahl1, IYK16, IFA15, JRT16, LDL19, LH19, MCU+13, OGM+16, PPC+16, PSV+16, PF16, SCKW19, TNLP13, Udd17, WDH+15, WDI19, Mar87a].

High-Cost [PPK09]. High-End
[BV11, NKK+08, PA11]. high-intensity
[JRT16]. High-Level
[BCC+91, GBB18, Udd17]. High-Order
[CC95, LHC+16, SCKW19].

High-Performance
[Bai88, BAA+06, BRT+92, CSY10, DCG09, DBA+09, ISD89, HSLK11, IYK+10, KWB06, PPK+04, Sab01, TMW+99, THDC09, DTD14, DHL16, EKD+12, GL15, GMWG10, GSK+15, KDH11, KMM16, LST15, LPB+16, SKC10, TR17, VRB+19, WLG+18, AFGQO19, BAP+12, CGW19, Ccz20, CZR+11, DAC+14, ECG+13, Fem90, FMR+20, GR17, GSN20, Hahl1, IYK16, IFA15, PPC+16, PSV+16, PF16, TNLP13].

High-Pressure [WLC91].

High-Resolution [DFS+05]. High-Speed
[Ano87d, BAM+16, Mar87a].

High-Throughput [GHM+10, AGHR19].

High-Wave [BEF+95]. Higher [Mah90].

Highly
[Ade21, BCC+06, Sim90, KKB+21, PS12].

History [MT89, ZC92, Bra91]. Hitachi
[WOG95]. HLA [RTRG+07]. HMapper
[GPO+20]. Hoc
[IBC+10, TNBG07, BG02, CHZ02]. hole
[HLZ+20]. HOMME [CAE+13, DDKK19].

homogeneous [MW+13]. Homotopy
[ZR99]. HONPAS [QS+20]. Hop
[TNBG07]. Hoshen [CBV97]. Hosted
[BSM03]. Hough [GLGB+11]. hp
[KBY+19]. hp-adaptive [KBY+19]. HPC
[Ano19, ABG+19, BBM19, BBG+18, CRS+19, CYZ+20, CBB18, GCSK13,
GGMJF+20, Kep04b, KV19, KHK+09, MDH+18, NMI+19, PMP+20, SSQ08, SGFC09, ZWS21. HPCC [CBB+96].

HPG-B [LYL+16]. HPF [BF01, DL97]. HPF-Builder [DL97]. HPG
[GPO+20, IMB+19]. HPG-HMapper [GPO+20]. HPVM [CLP+99].

HPVM-Based [CLP+99]. human [ABH+18, BE17, GGMJF+20]. Hut [INS+20]. Hybrid
[BBG+10, BBH+06, CWG09, MS02, MV20, MGFP20, RW03, BSK14, BBG+14, CAE+13, GHL15, GGO16, HTD+14, HLW+16, IVG+20, LYL+16, NOM+19, NMAE13, QSX+20, RMV+19, STP+13, SZC12, SDJ17, SMZ+18, SHK+18, THDS19, WSD+14].

hybrid-core [BBG+14]. Hybridisation [EMP+18]. hydrodynamic
[HLH+19, SZC12]. Hydrodynamics [LRBS89, PGTS10, GEKO19]. hydrostatic
[AWWG19]. hydroxymethylation [GPO+20]. Hyperbody
[FG07, CHT+19, LH19, RV15]. Hypercube
[DTL91, KLJ87]. Hypercubes [L01]. HYPERDOCK [ILCLG20]. hyperheuristics [ILCLG20]. Hyperspectral
[DF08, HC08, PC08a, SPTT08, VLO+08].

I-WAY [DFP+96, GKN+96, NBB+96]. I/O
[BCP+20, DLY+98, DEL+12, IBC+10, KKKCB98, KES+17, LPJ98, MMD98, MS95, NFK98, OW098, PH91, SW01, SR98, TLG98, TD08, WWA+11]. IA [PSV+16].

IA-based [PSV+16]. IBM [DEKV92, DD89, DD91, Ga88, GNB11, KMH+14, MAB+13].

Ice [ZOF90]. IceT [GS99]. idealized
[LPB+16]. IDR [AKP+18]. IEH [L01].

IESP [GD09, Moh09]. II
[Don02b, JP93, TDM+17]. IJHPC
[KM20, Mas19]. ILU [Ma00]. Image
[AAC+97, BCJ01, CSY10, DJB00, DF08, PTGB02, Sal87, SPTT08, BGM15, TKA+17, THH+13, ZCZ+13]. Imagery
[HC08, PC08a]. Images
[VLO+08, RPdB+19, SKS+13]. Imaging
[CBB+96, Wrl12, JKBW18, SFLC18].

Immersive [THC+96]. Impact
[Ald89, BRU05, Chn99, GJMS88, LC90, NMAE13, BHK+88]. Implementation
[AEP+92, BBS99, BCZM07, BBA87, BIC+10, BG00, BRM03, CL05, CLF87, Cho01, CTD+05, EKF+19, FD04, HJ96, IBC+10, INS+20, KLJ87, LMT+12, LT90, MC90, MS02, MG87, MS05, NMI+19, ODD07, SYF96, Ts97, ZZG+14, dRADS+18a, BG11, GDS17, KTWL18, LNSMMA15, MV20, MHW15, NMAE13, OKTR11, OGM+16, VMPW20, YZZW21].

Implementations [An01a, RR96, BDFVP15, KWEF18, LWT+11].
implemented [BBDH14, PH19].
Implementing
[CDT05, KV19, LRT07, YFH+96].

Implications [RES87]. Implicit
[GKMT00, MS02, NS21, EAG+19, HLZ+20, KC18, AGC+19]. Importance
[BCC+10, SC09]. Important [TC10]. improve [JdSA+17, LFB+15]. Improved
[An07b, CMHB15, FSN08, NTD10, DMSMG18, INY+14]. Improvement
[SVN09, KMM16]. Improving
[ARPY19, BL99, BJK07, CGGC20, DD01, GMWG10, LDGR03, JBOT19, DLSMMA15, MV20, MHW15, NMAE13, OKTR1],

in-depth [JDA19].

in-memory [WZHG17]. in-situ [MBF+19].
Incomplete [JI93, Ka09b, MC21].
Increased [DTP+21, WBM90].
Increasing [PHC+10, WW92].
Independent [BRU05, CCRV20]. Index
[An96b, An97d, An98b, An99, An00, An01b, An02a, An02b, An02n, HC08, BE07]. induction [JCK21]. Industrial
[DGP+97, GMWG10, LDGR03, JBOT19, VMPW20]. inefficiency [HGMW12].
Inequality [NK89]. Inertial [BGB+18].
Infer [RS03]. inference [KPS18].
InfiniBand [OM+19, OF17, SWHP05].
Influence [CK01, Ede93]. Information [Ano91b, Ano91a, Ano92g, Ano92e, Ano92f, Ano93a, Ano94a, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano98a, BH06, CHZ02, FWSW02, FP02, IMS16]. Information-Driven [CHZ02]. Information-Theoretic [FWSW02]. Information-Driven [FWSW02, FP02, IMS16]. Ano97b, Ano98a, BH06, CHZ02, Ano94a, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano98a, Ga98, Lee03, Ano98b, Ano99, DBA+09, DBM+11, Ano91a, Ano00, Ano01b. Internet [EDSV06, Rao02]. Interoperability [Knl09b, LDB+06, SIC+19, EKD+12]. Interpolation [JLO05, SBBS06]. Interpretation [Fel99]. Intrepid [BWB+10]. Introduction [Ano02o, BM13, BL18, BQOS21, DT99, DT13, Hau94, KM20, Mas19, Nag93, OV13, SB18, SDS12, Ste01, Tur95]. Inverse [Cho01]. Inverse [MGFP20]. inversion [BGM15]. Investigating [CW05, PHF21]. Investigation [CK01]. Investigations [Mav02]. Investing [DTL19]. Investigation [Mar87]. Invocation [DP05]. Invoking [MBF+11]. IO [BIC+10, LRT07]. Ion [Ren92]. ions [KFJ20]. Iowa [BCYS11]. IPC [Udd17]. iPSC [HGD91, KR94, KR95]. iPSC/ [KR94]. iPSC/860 [HGD91, KR95]. Ireland [MCS+06]. Irregular [Cza03, Man97, TRS+10, KPR17, MMHL11]. ischaemic [SKS+13]. Ising [BMT89, BRT+92]. island [NC18]. island-based [NC18]. isolating [ALL13]. Issue [BV11, BM13, BQOS21, BE18, DT97, DT99, DT06, DT13, DT17, Fol90b, Hau94, KM20, MI98, Mas19, ME14, Nag93, Ov13, PA11, Ylc04, BI17, Cec20, DT19, Hdb18, MFB+19, WH20, WD19, WD21, SDS12]. issued [CGM17]. Issues [AD93, BMWD87, CLS09, CEL+97, Dem90, EGP93, Men00, GCSK13]. Italy [OL05]. Iterated [RR96]. iterations [MC21]. Iterative [BDL+07, CSV91, CMN12, CM97, FFR+10, MC90, MCW+00, PHC+10, SC04b, SCF40, AKP+18, CSGM17, CvG11]. Iteratively [ML20].

JISGA [Hu03]. job [GMV18].
Josephson [IKY+10]. Journal
[Ano91b, Ano91a, Ano92g, Ano92e, Ano92f,
Ano93a, Ano94a, Ano95b, Ano95a, Ano96a,
Ano97b, Ano97c, Ano97a, Ano98b, Ano98a,
Ano99, Ano00, Ano01b]. JPEG
[BKRSR09, CLBS17]. JPL [Din91].
Jumpshot [LGS99]. Junctions [IKY+10].
Just-in-Time [BPBL11].

K-computer [INY+14]. Kepler [HPW+16].
Kernel [TM99, ALL13, Jon12, LNSMMA15].
Kernels [BELF07, IYV04, EHTW21,
HCCG20, MAB+13, WKLW19]. key
[KV19, KES+17]. keys [SK14]. Kinetics
[ARR99]. KNC [HCCG20]. Knowledge
[AEG+03, Cap09, vLRA+03, ECG+13,
KT94]. Known [Ano92b]. Kokkos
[DWT+19]. Kopelman [CBV97]. Krylov
[GMKTO0, ATL+15, AKP+18, CMN12,
MSK21]. Kutta [KR11, RR96].

L [dSSB+08]. LA-MPI [YP+05].
Laboratory [ABF+08, Bus87, BBB+91b,
Don89, DGH+93, HGD91]. LABS
[RRJ+20]. Lagrange [MT89, ZB20].
Lagrangian [KRR19]. LAM [SSB+05].
LAM/MPI [SSB+05]. Laminar
[EDS95, SG91]. Land [HVKW05].
landscape [CYZ+20, GSND20]. Language
[CCZ07, LD07, Pan92, Sha88, CH13,
EKD+12, NMI+19, PHF21]. Languages
[Kal09b, KKS04, YHG+07, J092]. Large
[AS00, AK91, AGL+87, BAM+16, BGG05,
BDP01, BCCL09, Ber92, BBA+10, BBA87,
BCC+06, CWHP99, CK01, Ede93, Ewi88,
Fra05, FBW+87, GDKWS15, GMWG10,
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, UFE89,
VSO3, WT99, YRA+02, ZRC+06, ABH+18,
Ade21, BLOR18, BCYS11, CvG11, DCD+13,
EEL15, FU12, HIT+14, JB0T19, MBHF15,
MJD16, RDG12, STP+13, SIC+19, VOL+14,
ZBMK11]. Large-Scale [AS00, AK91,
BDP01, Ber92, BBA87, CWHP99, Ewi88,
Fra05, Gun00, HSLK11, Joh01, KUE+00,
LC06, Mor89b, NKR90, SD87, YRA+02,
ZRC+06, BAM+16, GDKWS15, GMWG10,
LM03, LDW+12, MRD+15, BLOR18,
EEL15, JB0T19, MBHF15, MJD16,
STP+13, SIC+19, VOL+14]. Largest
[Ano92b]. Largest-Known [Ano92b].
Latent [WWA+11]. Lattice
[BGK+90, Don91, JC12, LRBS89, Mor89a,
MSK2, CGST19, Lu09, Mar12, OTR11,
RWM17, YIYD19, YZZW21, SBB06]. Law
[HE01]. laws [Hea15, LH19]. Lax [YFS+14].
layout [HLW+16, SZ11]. layouts [RWM17].
Lazy [BPBL11]. LBLAS [KJH96, JO92].
Leading [OCC+08, SSQ08]. Learned
[PK04, IKMS+19]. Learning [AH93, AK93,
CBM13, DMJS19, DEQO21, EEL15,
EJD+19, KFJ20, KWFE18, MP18, NSI20].
Leasing [EW06]. Legacy [Ano92h]. Legion
[GNTL97]. Length [DLY+98, BSK14].
limitations [SKS+13]. Lessons [PK04]. Level
[BCC+01, BBC+00, YK04, DEL+12, GBB18,
IK18, LRG+16, Udd17, DD89, DD91].
Leveraging [CH13, YLY+16, SFLC18].
Liberation [Pla09]. Libraries [DMT01,
GFD05, LDB+06, PB+01, PMS+04, PH19].
Library [BK07, CE00, MA15, BLC17,
DWT+19, DEL+12, J12, Poz97]. Ligature
[KBA00]. Lightspeed [PPK+04].
lightweight [GS18, SSU+12]. like [CSV91].
limitations [CGW19, SPHW18]. Limited
[KR11, TKW87]. Limits [Am98, THH+13].
Linda [Mat95, SSNM92]. Line
[LWOB97, Ade21]. Linear [AGL+87, BS88,
BDA+07, CDQS04, CL95, CDP+94, Don02a,
Don02b, Ede93, GJMS88, JO92, KVY+90,
KJH96, MC90, Ma00, MA15, Man97, NZ93,
PB19, Poz97, WT99, de 89, ATD17, CvG11,
FTB13, AAT+20, Kum89, LRLG19,
MBvG13, ML20, RDG12, SPHW18]. Link
LINPACK [DL09]. Linux
[ALL13, Ano01a, CK01, GSHL03, Jon12, LWL05, SG09a, YIN+11]. Liquid
[DQFW90]. Livermore [WG90]. Living
[GHZ10]. Load [BG09, BFNV07, GS05, GLLB+11, MYCR06, ZBMK11].
Load-Balanced [BFNV07]. Loads [DLG06]. Local [BRT+92, MYC92, PNFC16, RRJ+20, JO92, KJH96].
Local-Creutz [BRT+92]. Locality [AKW19, BPBL11, PHC].
Localization [CYT+02, MJGL13]. Localized [WCE95].
Low-Storage [KR11]. Lu [Tis97].

M2L [KKB+21]. Machine
[BR03, CC95, CSV91, CBV97, EEL15, IKMS+19, KFJ20, MC90, SS99, Wit92, ZK93, BAP+12, CBM13, DMJS99, DEQO21, EJD+19, KWF18, MP18, NS120, SK20, SSU+12, BJ92, GKH+91, HZ91, KKD03, KKD05, KL10, LPG88, Don87].
machine-learning-based [CBM13]. Machines [AH93, BBDR95, CDT05, CB95, HC10, HGWN14, Jea13, KS89].
macromolecular [DF18, MCR+17]. made [ASHH16]. Madre [SS10]. MAGMA
[AAT+20, NTD10]. magnetic [JKBW18].
Magnetically [ACG+90].
Magnetohydrodynamic [ACG+90, FU12]. mainstream [BHK+13]. Major [GL09].
makes [SD1+19]. Making [BPBL11, Dee10, GWKN08, BHK+13, KT94].
malleable [BPR18]. Man [Wit92]. Manage [HBS09, ES8+12]. Management
[AF09, AD93, BPK+07, DD06, Dar00, HTSK90, MWM+08, MFK09, PK04, SE92, YB07, PBB+20]. manager [IK18].
Managing [Spr06, TGP19]. Many [GLZS14, TMWS91, AKC+19, BH12, INS+20, LDDL19, LNSMMA15, MSPSI15, PSV+16, Udd17, VRB+19, VOL+14, YFS+14]. Many-Body [TMWS91].
many-core [AKC+19, BH12, INS+20, LNSMMA15, MSPSI15, PSV+16, Udd17, VRB+19, VOL+14, YFS+14].
many-nucleon [LDDL19]. manycore [AGC+19, DJJ+19, HFV+12, LTPK17, MBC+18, SCD+19]. manycores [BH17].
Mapping [CDRV15, QH08, ASAK19, DCN17, GJMV18, Jea13, KPR17].
Mappings [PTGB02]. Marenostrum [RBL08]. marine [GEKO19]. Market
[MCN87, NK89, WPBB01]. Market-Based [WPBB01]. Markets [IJ93]. Mass
[McN87]. Massive [GBN11, dSSB+08, CdVL+18].
Massive-Scale [GBN11]. Massively
[BBDR95, CH94, CBW95, CB95, Dem90, DCLS19, HVWS09, HVWS09, HS93, HZ91, JL89, Jon92, LPJ98, MA15, MPG93, Mon89, NZ93, PK04, SBF90, SCB+95, SK92, TMW+99, AHB+16, BCLP17, GEKO19, KHS+19, KRR19, KDH18, NMAE13, RMV+19, SPHW18]. match [Ozs16].
Matching [ZC92, HFV+12]. Materials
[EGG05, GKN+96, KVV+90, Nak99, WLC91, ZOF90, MPD+12, PHF21].
Mathematical [Mon89]. Mathematics
[Don89]. MATLAB [BK07, Lus09b, ZG+14]. Matrices
[KC92a, KC92b]. Matrix
[AGL+87, Chu99, DL09, GG11, IYV04, MCG04, NKR09, BDC21, BJWS20, DEKV92, EHTW21, GG14, GGO16, HDL+15, MSHPV18, PHF21, SCR11, SMK+20, WZH+20, YIYD19, YLL+14].
matrix-free [PHF21, SMK+20].
Matrix-vector [GG11, GGO16, YLL+14]. matter [GHHS15]. Maximization
[GLGLB+11]. Maximizing [PIR+20].
Model

[ATN+00, ACDO7, ABAS87, BFLL99, BE07, BN1V07, BG02, BMT89, BRT+92, CBW95, DVC88, GS05, GP93, Ish91, JLO05, Kep04a, KI05, KM95, LR07, LPZ98, PR03, SSSW91, SG09b, SG09a, SR05, Ste09a, TD08, VFD04, VC89, WBC06, WHL03, AGC+19, AWGW19, ABH+18, CDL20, CDG+14, CMHB15, DAB+12, EDB91, EMP+18, EAG+19, GDKW15, IYK16, KKL+19, LB18, DM+19, SMP+20, SDF+17, TNL13, WD+15, YW+14, CW08, CJK+05, DFW+12, DEE+12, DJC05, ESW+12, HVK05, JLO05, KTWL18, LJO05, MS05, MW12, PLS05, WD05].

Mediated [WJS+90].

Modelling

[AS00, AGHR19, BCZM07, BELF07, CWHP99, CC95, CT+05, DR06, DDMS7, DSD+01, DCM17, EGG05, ED95, HVWS09, HVSW09, JQ00, MOK00, MWC+05, Men00, MCM+13, Rad18, SG01, SVB13, SK92, THC+96, THL88, WSCZ05, YK07, YW93, CV12, CHWS20, DCM+17, GSK+15, JKBW18, MMHL11, SE12, SK20, UCZ+15].

modelling [QHCC17, STS17].

Models

[ARR99, BV11, BRGR11, BR03, BBD00, DGD+04, DFC90, Gir02, HD05, HAF+96, II93, KLO09b, LJO05, LR09, LRO10, MA89, PA11, PS87, RW03, Ste04, Ste09b, UB05, VDB04, WOS08, WW92, ZC92, de 89, Ad21, BH17, DTDP14, DEL+12, EJD+19, HLS+17, KDO+20, KBY+19, MEK+19, MDH+18, SCD+19, VSHN14, WKLW19].

Modern

[BDG+00, WET+19, ESW+12, SB19].

Modified [HB90].

Modisazure [ACF+11].

modular [AFQ019].

Modulo [PLS05].

Modulo [Gro03].

Molecular [BYT91, CGB+94, CH94, CWG09, CSY10, DQFW90, DGD+04, DVC88, DF090, KVY+90, MP94, Nak99, NHG+96, AKC+19, AKW9, HW+13, KFJ20, PIR+20, SDI+19].

Monitor [BH06, SSU+12].

Monitoring

[LWOB97, MR04, PHB04, SC09, Spr06, VR00].

Monte

[BEH+90, CH94, DFT+15, FSS13, LM03, LPP+16, MWAR+87, MB87, MPF+17, SABD13, SSSW91, SSR+14, VSS+13, ZK93].

mortar [LPB+16].

Monte Carlo

[BP08].

Motors [BPS09].

MOSFET [VSS+13].

MOSFETs [MV20].

MOTOREUR [GMLP08].

motion [NS10].

Motions [DCF90].

moulded [WSD+14].

movement [PG18].

Moveout [LT90].

MP [AEPR92, Del93, DH96, Lai93, LT88, MYC92, MSK92, YW93].

MP/416 [THL88].

MPH [HD05].

MPI

[SLG95, AON94b, AON01a, BBG+96, AKW19, GDKWS15, IYK16, KKL+19].

MPI-2 [BG01, BBDH14, BBH+13, BIC+10, BHK+06, BBC+00, BFM03, Bri10, CBL10, DJJ+19, DLB07, DGB+14, FD04, FCLG07, FSC+11, GFD05, GV+18, HC10, HGM12, IMS16, KWF16, KMH+14, LRG+16, LRT07, KLCCW07, MS02, MMDA19, OL05, OGM+16, RTRG+07, SCB14, SSB+05, SDJ17, SC0b, SIC+19, THDS+19, YSP+05, ZKRA14, SZC12].

MPI-2 [HGM12].

MPI-Based [FSC+11].

MPI-IO [BI+10, LRT07].

MPI-OpenMP [MS02].

MPI/OpenACC [OGM+16].

MPI/OpenMP [MDMA19].

MPI/Openmp/GPU [SZC12].

MPI2 [MP198].

MPI/OpenACC [GFL97, TRG05].

MPICH

[BHK+06, Cot04, GL97, TRG05].

MPICH-G2 [Cot04].

MPICH-V

[BHK+06].

MrBayes [KPST18].

MRI

[SKS+13].

Much [RAGW93].

Multi

[BKRSR09, BH12, KDH11, OKTR11, SSR+14, TNBG07, YK04, APD+15, BGM15, BGO20, CAE+13, CZR+11, DAC+14, IKMS+19, IK8, KTWL18, KKL+19, KILL13, LDW+12, IVA+13, LNSA15, MGFP20, PSV+16, TKA+17, VSS+13, VMPW20, VOL+14, YFS+14].

multi-PSV+16].

Multi-Core

[Bri10, BH12, KDH11, SSR+14, CAE+13, KILL13, LDW+12, LNSA15, TKA+17, VOL+14, YFS+14].

Multi-Criteria

[BKRSR09].

multi-GPGPUs [APD+15].
Multi-GPU [OKTR11, BGM15, KTWL18, KKL†19, VMPW20]. Multi-Hop [TNBG07]. Multi-Level [YK04]. multi-order [CZR†11]. multi-physics [DAC†14]. multi-processor [BGM15]. multi-projection [MGFP20]. multi-scale [IKMS†19]. multi-step [BG020]. multi-subband [VSS†13]. multi-tasking [IK18]. multi-threaded [LVA†13]. Multiblock [KDL01, Ytt97]. Multibody [BGI†99]. Multicommodity [NK89]. Multicomponent [HD05, SVN09]. Multicomputer [Man97]. Multicomputers [MOK00]. Multicore [CWG09, BSK14, BSH†16, DTDIP14, DDKK19, LWT†11, MPD†12, MBC†18, OPW†12, THH†13]. multi-cores [BH17]. Multicriteria [CJ06]. Multidimensional [HLW00]. Multidisciplinary [BGB†96, KDO16]. Multidomain [KS05]. multifold [PI†20]. Multifrontal [AD89, AD03, BMWD87]. Multigrid [DMT07, SC04a, AG18, BGO20, DTL†21, GEKO19, HRW19, ZZG†14]. Multilevel [DW97, EGG05, WCD09, Sta19]. Multimodal [FWSW02]. Multiparadigm [AS00]. Multiphase [ZC92, FIMU19, YZZW21, ZB20]. Multiphysics [KMW†13, LJO05, MCW†00, MWC†05, PK04, MC21]. Multiple [DLG06, MYC06, Mor89b, Nak99, BLOR18, BDFVP15, HGW14, KDO16, MDH†18, RDG12, SKS†13]. multiplication [EHTW21, GGO16, SCR11, YLL†14]. multiplications [WZH†20]. Multiply [GG11]. Multipole [CKE08, KMPJO8, IYK16, KKB†21, YB12]. Multiprocessing [ANO87a, DD91, YM91]. Multiprocessor [AD89, BS88, DEKV92, KPR17]. Multiprocessors [AD93, DD91, Gir02, Wad99]. Multiprogramming [MA89]. Multiprotocol [BHK†06]. Multistage [GMWG10]. Multitasking [MYC92, THL88, UF89]. multithreaded [HFV†12]. Multithreading [BBG†10]. Multitunit [GCL93], muscle [IKMS†19]. Musings [Luc09]. Myth [ANO87c]. NAMD [NHG†96]. Nankai [BAM†16]. nanometre [CHW†15]. nanoparticles [KFJ20]. Nanophase [Nak99]. NAS [BBB†91a]. NASA [MAB07, PL05]. National [ABF†08, BBB†91b, Bus87, Don89, DGH†93, HGD91, UB95, BE16W, All88, Bl87, Mir90, Web91]. Navier [Mav02, SBF90]. nCube [CL95]. Near [Arn07, KFJ20]. Near-Lossless [Arn07]. nearest [DSH†16]. NEC [Mor89a]. Neck [GBK93]. Need [GS09, Ste09a]. Needs [AN087e, HBSM03]. neighbour [DSH†16]. NEMO [EMP†18]. NERSC [HBSM03]. NES [AMC†18]. nests [RCA†20]. Net [AEG†03]. Netlets [Rao02]. nets [BDC21]. NetSolve [CD97]. Network [ACD07, AM00, AB01, AMC†18, BL99, BSCC03, BGF02, CD06, CD97, CK01, Ch99, DD06, DMFD94, LC06, MOK00, N293, PBO4, RS03, WEPB12, AHB†18, OF17, VEMR17]. Network-Based [AM00]. Network-Enabled [CD97, DD06]. network-on-chip [VEMR17]. Network-theoretic [WEPB12]. Networked [FWSW02]. Networking [AN087c]. Networks [AKP08, CHZ02, FP02, Gun00, JMP02, Mar89a, MAJS03, QWIC02, RES87, TNBG07, VLO†08, VRB†19]. Neural [AM00, Her88, RES87, BDC21, VRB†19]. neuroimaging [KD OCR†20, MRD†15]. neuron [CHWS20]. neutron [BSH†16, DFT†15, SSR†14]. Newton [DTL†21, GKM00]. Newton-multigrid [DTL†21]. Next [DE03, HT04a, MFB†19, ZKRA14].
next-generation [MFB+19, ZKRA14].
NMR [BHK+88]. No [Ano87c]. Nodal [FSN08].
Node [KHP+04, BGO20, IK18, KL13], node-level [IK18].
nodes [HYH+20, TNLP13]. NOE [CGB+94]. NOE-Restrained [CGB+94].
noise [ALL13, WLFH16]. Non [BCG+10, CAK+07, GSHL03, uITH07, AWG19, RDG12, SLL+19].
Non-Data-Communication [BCG+10].
Non-Dedicated [CAK+07, GSHL03].
non-deterministic [SLL+19].
non-Hermitian [RDG12].
non-hydrostatic [AWG19].
Non-Polynomial [uITH07]. nonblocking [DJJ+19, WLFH16]. nondeterminism [CRS+19].
Nonequilibrium [YW93].
nonhydrostatic [AGC+19].
noninteracting [PMP+20]. noniterative [IMB+19].
Nonlinear [AK91, ABAS87, KGY+90, DTL+21, GEKO19, JRT+16, KLR+21].
nonsymmetric [DTL+21].
Nonsymmetric [KC92a, KC92b, MC90, Ma00]. Normal [YRA+02, Ha93].
Northern [UB95]. Note [DT17, CEC20, DT18, DT19, WD18, WD19, WD21].
Notice [Ano17a]. Novel [CGB+94, DGJ90, FW291, SG07, CEC20, HTD+14, PNFC16].
Novo [NKN+08]. NSF [Bra91, SC92, SA87].
NSF-Sponsored [SA87]. NT [Ano01a, CLP+99]. NuChart [TDM+17].
NuChart-II [TDM+17]. Nuclear [FSS13, IHMM87, LLDD19]. nucleon [LLDD19].
NUMA [Jeal13, MCM+19, OPW+12]. Number [Ano92h, FG97, FU12].
Numbers [BEF+95]. Numerical [ABF+99, ABB+94, DMT+01, DE03, Ede93, ILJ+93, LWL05, Nag89, PR95, PPR+03, PBD+01, Poz97, RAB+15, RIF+01, RKK90, SG91, THDC09, BSS15, MAB+13, MCM+19, SDF+17].
Numerically [Mah90, WJS+90].
NWChem [JDD18].

O [BCP+20, DLY+98, DEL+12, IBC+10, KKKB98, 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]. oblivious [CHT+19]. observable [RAB+15].
observations [ZKRA14]. obstacle [CCBS11]. Obstacles [MBF+11].
Occupancy [GLGLB+11]. Ocean [Cow08, HAF+96, JOR90, KJ05, KM95, WSCZ05, CDG+14, EMP+18].
One-Sided [GFD05, LRT07, GTG05]. Ongoing [MEK+19]. Online [LC06]. Onto [QH08].
Open [LWOB97, BSW+14, CGW19, GCSK13, AEG+03]. OpenACC [MGS+15, OGM+16, QHC17]. OpenCL [ASA19, CLBS17, RGB+18, RJ+20].
OpenDDA [DGJ09]. Opening [PRT90].
OpenMOC [BSH+16]. Openmp [SZC12, BF01, BDDH14, BCC+00, HHS19, LRLG19, MS02, MV20, MMDA19, OPW+12, THDS19]. OpenMP-parallel [HHS19]. Operating [CW01, EDSV06, HI12, HI13, HI15].
Operation [BBR10, BBR+09]. operational [CBA+18]. Operations [FCLG07, GFD05, MS09, TRG05, TGT05, GG14, KMH+14, SCKW19]. Operators [FSN08, GRC08, ZMM07, LMT+12].
Opportunities [Ano87a, Cap09, KMW+13].
optical [GSK+15]. Optimal [BR03, FG97, DEQ021, LTPK17].
Optimisation

Optimization

[AKP+18, ABB+94, BFLL99, BGB+96, BELF07, CGST19, HL10, HA91, JYV04, KMH+14, LT88, PPK09, RW03, SCC+19, SCB+95, SR05, TXD+07, TRG05, YLL+14, ABH+18, BRGR11, BH12, FIMU19, IMW+13, KES+17, NMAE13, SDJ17, SHK+18, UZM+14, WD21, YWL+14].

Optimizations

[PSV+16, DCD+13, Jea13, PUR94, WKLW19].

Optimize

[KKCB98, GVF].

Overheads

[AKP+19, DDKK19, FSS13, GI11, KILL13, MAB+13, MCG04, Mor89a, NSI20, TGT05, WCE95, WCDS99, BJWS20, EJD+19].

Optorsim

[BCM+03].

Order

[CC95, uITH07, THL88, CZR+11, LH19, OGM+16, PFGDM20, SCKW19, THDS19].

ordering

[WGl8].

ordinates

[DMSMG18].

Organic

[CBLO6].

Organization

[FWSW02, FKT01].

Organized

[BGFO2].

Organizing

[CBLO6, GHZ10].

Oriented

[Hua03, NHG+96, CMN12].

Orography

[GS05].

oscillatory

[SPHW18].

OSWALD

[RGB+18].

other

[CBF+18].

Our

[WW92].

outlooks

[RAB+15].

output

[LCC+15, WVL+16].

Overarching

[Kep04b].

Overhead

[HYH+20, MSMW07].

Overheads

[BGG+10, GBN11].

Overlap

[BBDR95, BRU05, INY+14].

Overlapping

[PR95, DJJ+19].

overset

[KBY+19].

Overview

[AGR+03, DFP+96, DJC05].

P

[MAB+13, GNB11, SSU+12].

P4

[Mat95].

PACE

[NKP+00].

Pacific

[JO90].

Package

[RIF01, SYF96, QSX+20].

PACO

[BQOS21].

Pair

[FRo09].

PAM

[CEL+97].

PAM-CRASH

[CEL+97].

Panel

[Sal87].

PANORAMA

[DCM+17].

Papers

[Lee03, Moh09, OL05, DT11, KKD03].

PAPI

[JDAD19].

papillomavirus

[ABH+18].

Par-BF

[LGDH16].

Paradigm

[BGB+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, BGB+96, BH99, CCH+88, CC07, CE00, CDH+93, CL95, CCBS11, CH94, CBW95, Ch001, CSV91, Chu99, CEL+97, CB95, CM97, CJK+05, DEKV92, DLY+98, Dem90, DIB00, DFS+05, DZRS99, DMT01, DZDR95, Ed93, EGG05, ED05, FG97, Gaf88, GCCC+03, GKN+96, GKP97, GDS17, GP93, GGS01, GL97, GKM00, HKK88, HVW09, HSV09, HR97, HwV18, HwW00, HJ96, HT04b, HS93, HZ91, IBC+10, JLO05, JL89, Jon92, KDL01, KC92a, KC92b, KT99, Kok88, KR11, KS05, LW05, LPJ98, LWOB97, Lu09b, MC90, MS09, MMD08, MA15, MS02, MSMW07, MT89, MWAR+87, MP93, Mat95, Mav02, MD99, MWC+05, McR87].

Parallel

[Men88, MBF+11, Mon89, Mor89b, MSK92, MS95, NK98, NKR90, NkiN+08, NHG+96, NZ93, NK98, NKP+00, OWO98, 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, SGB10, SMW87, TBA+17, TLC98, TMW+09, TR92, Tis97, TD08, UB95, VLO+08, VSHN14, WSCZ05, WG07, YRA+02, YHG+07, YW93, Ytt97, ZK93, ZCZ+13, Ade21, AKW19, dRADS+18a, dRADS+18b, BLC17, BH12, BCLP17, CSC19, CMHB15, DKMT18, DAB+12, DEL+12, DCLS19, EJD+19, GBB18, GHL15, GHHS15, HLW+16, HLZ+20, HLS+17, HHSM19, IVG+20, IMH+11, IMH+12, ICPSG18, ILCLG20, IKMS+19, JdSA+17, KT94, KHS+19, KRR19, KES+17, KDH18, KUM89, LPG88, LGDH16, LSL+20, LWT+11, LBP18, MV20, MFB+19, MJD16].

parallel

[MS19, MSKM21, NMAE13, NSI20, ...]
PH19, QSX+20, RMV+19, SPHW18, Sta19, SMZ+18, SB19, TRS13, TPG+18, THDS19, WVL+16, WEPB12, ZWS21, DP05, KJ05, KKD03, KKD05, LK10, Nag89. Parallel-algorithm [AHB+16]. parallelisation [BSW+14, RCAE+20, VSS+13, WSD+14]. Parallelism [ACM88, CFK+94, MYC92, VRRL18, dSSB+08, DMSMG18, DTL+21, Jon12, KDNE18]. Parallelization [AHL+97, CDL07, CBV97, Cow08, Cza03, DGP+97, GCD97, HE01, KM95, LP10, LVA+13, MCW+00, Ren92, WBG06, CIWI17, CDG+14, MFP+17, MMDA19, Osz16, SZC12]. Parallelizing [AFL+18]. Parameter [FBBC03, KJF20, SH93]. Parameterizations [WD05]. Parameters [LR09]. ParaScope [CCH+88]. PARCOACH [SCB14]. Park [UB95]. Parkbench [HL00]. Parmetis [LDGR03]. PaRSEC [ML20]. Part [HVWS09, HVWS09, SR05]. Partial [Key09, Men88, RMS+18, KS89, YZC+15]. Participate [Mar87c]. Particle [DR06, DDM87, MB87, MD99, MR90, PGTS10, ABH+18, NS120, WET+19]. particle-in-cell [WET+19]. particles [PMP+20]. Partition [LQJG16]. Partitioned [MHW15, SGB10, ABD+18, ABG+19, LGDH16]. Partitioner [SR05]. Partitioner-Centric [SR05]. Partitioning [LR07, SR05, WCDS99, Ytt97, BJWS20, SABD13]. Partitions [WCE95]. Passing [Ano93d, Ano94b, BC14, BBH+06, BRU05, CWG09, Cot04, GL04, IBC+10, KKD03, KK05, LK10, MP98, SWH05, TGT05, SMZ+18, ZKRA14, SLG95]. PASSION [KKC998]. Passive [MBF+11]. Patching [BH00]. Path [Luc09, SD17]. Paths [Rao02]. patients [SKS+13]. Pattern [BE07, APD+15, SKS+13]. Patterns [Cho01, GRC08, GKB93, SR98, dRAD8+18b, BRR17, DKMT18, EEL15, HGMW12, WEPB12]. Patterns/Operators [GRC08]. PC [CDT05, CK01, LW05, Ste01]. PCISPH [VMPW20]. PCs [AWS01]. PDE [CCO+19, CHT+19, DTL+21, FMR+20]. PDEs [Ma00]. Peaks [TC10]. PERFECT [BCK+89]. Performance [AS00, ATN+00, Ano87b, Ano87f, Ano94a, Ano94c, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, Ano98b, Ano98a, Ano99, Ano00, Ano01a, Ano01b, ARR99, Aus92, Bai88, BGI+99, Bar09, BAA+06, BCK+89, BBDH14, BWB+10, BGB+18, BBA87, BFNV07, BRM03, BRT+92, BDD00, BDG+00, BELF07, CDQS04, CWHP99, CC95, CK01, CDP+94, CAK+07, GRO10, CEL+97, CB95, CJK+05, Dar00, Del93, DH96, DGD+04, DJ09, DBA+09, ISD89, EHTW21, EAG+19, FGC+05, FGJ+04, FSC+11, FSN08, FFR+10, FU12, Gun00, HIT+14, HVWS09, HVWS09, HR97, HL00, HLW00, HSLK11, IS96, IKY+10, IHMM87, JLL04, JMC05, KBA00, Kep04a, KHP+04, KJ05, KDL01, KWB06, KS09a, Kuc04, KUE+00, LR07, LR09, LS90, LRLG19, LWL05, LD07, LSMW07, Maid02, MA98, Men00, MJ04, MMN09, MSK92, NFK98, NPT+06]. Performance [NTKP06, NKP+00, Num04, OCC+08, PPK+04, PB19, PF16, Poz97, PL05, QHC17, QWIC02, RIF01, RLB08, SBF90, Sab91, SWH05, SSQ08, SCB+95, SM06, SVN09, SC09, Spr06, SKB01, Ste01, Ste04, SGB10, SFP02, SBS06, SW04, SB19, THC+96, TMW+99, TAR+08, THDC09, VC89, VR00, VDB04, Wad99, WTM99, WBF04, WG07, WD05, Yel04, YK04, YIN+11, YSP+05, ZLGS99, AKC+19, ATD17, AKP+18, AGFG019, BLC17, BRGR11, BCP+20, BSI+16, BAP+12, CGGC+16, CGW19, CEC20, CS14, CZR+11, CMHB15, CHWS20, DTDP14, DCM+17, DWT+19, DVW+12, DHL16, DAC+14, ECG+13, EKF+19, EKD+12, Fem90, FMR+20, GVF+18, GHL15, GR17, GMWG10, GSND02, GS18, GSK+15, GGO16, Har11, HLW+16, HCCG20, IYK16,
IFA15, INS+20, JDK+11, JADAD19, KDH11, KLM13, KMM16, LLDD19, LST15, LCP+16, LWT+11, MAB+13, MSPSI15.

performance [MCU*13, MW12, MSKM21, NMAE13, PPC+16, PSV+16, SFLC18, SSR+14, SZ11, STS17, SK20, SKC10, TR17, TGP19, TKA+17, TNL13, UZC+15, VRB+19, WLIC19, WLFH16, WD19, WD21]. Periodic [ZBMK11].

PERMAS [AJL+97]. persistent [KV19].
Perspective [Bar09, YHG+07, PS12].
Perspectives [An92, MP95, Sab91].


PEZY [YME19]. PEZY-SC [YME19]. PGAS [GDKWS15, NM19].


Pixel [HC08]. placement [DJ+19].
Planet [Mar89b]. Planning [CDCV06].


Platform-Adapted [PA04]. Platforms [BLRR01, BM06, Eyr06, MYCR06, OCC+08, dRADS+18a, ABG+19, BJWS20, BBG+18, BSH+16, CEC20, DDKK19, GSN20, IYK16, IMW+13, MPD+12, MFB+19, MFP+17, PPC+16, SHK+18, SB19, UZM+14, Ano19]. Play [Pan97].

PLW [LD07]. pMATLAB [BK07].

POEMS [BD00]. Point [BSBF9, HC10, Ma00, MC21, CDL+19, LH18]. Point-block [MC21]. Point-SSOR [MA00]. Point-to-Point [HC10]. Pointers [LRT07]. points [CDV+18]. Poisson [GG01, KR19]. polarizable [KFJ20].

policies [BLOR18]. Policy [EW06].
Pollution [DFH+96]. Polyacetylene [ZOF90]. Polynenes [AEPR92]. polymer [NMAE13]. Polymers [DFC90].


Portability [WD05, DWT+19, GS18, QHCC17, TGP19]. Portable [BDG+00, FCLQ07, GL97, PL05, EKF+19, HLH+19, SB19]. Portals [BRM03].

Porting [MC17, Mic09, SHK+18, WD19]. pose [BE17]. Positive [AI89]. Post [BBH+13].

Post-failure [BBH+13]. Potential [CGW19, YZZW21]. Potentials [DG+04, THDS19].

Power [BD90, D90, TNBG07, Ade21, CCGC+16, LSES20, PPC+16, SFLC18, UZM+14, BQOS21]. Power-Aware [BQOS21]. power-line [Ade21].


Practice [BR03]. Practices [PK04].

Pragmatic [DCD+13, Eyr06]. Precision [An02b, BDL+07, AFGQ19, Bai20, LH18].

Preconditioned [MG87, IVG+20].

Preconditioner [BSB99, de 89, RMS+18].

Preconditioners [CE00, Cho01, Ma00].

preconditioning [MC21]. Predict [VS03].

Predicting [BE07, WLC91, MCU+13].

Prediction [FRR+10, HL00, KUE+00, NKP+00, SCB+95, BAM+16, GCS13, MMK+19].
Preemptive [BFH+06]. Preface
[Ano16, Bak01, Bam12, BO08, CCF+06, 
CCF+06, CJO+08, DSD00, DKD07, DT97, 
DT97, D02n, D02h, Fow05, IK02, 
Kah07, KZ07, MD06, OL05, Pat05, PC08b, 
Wah03, YD07, dA03]. Prefetching 
[BIC+10, CR+11], prefix [Ozs16].
Preprocessing [DIT07]. Preprocessors 
[Ano16a]. Pressure [WLC91]. Pricing 
[BBMB19, YB07]. Prime [Ano92, Sim90].
Principal [DF08]. Principles 
[DQFW90, GKN+96, TMWS91, HIT+14].
Priority [Cho01]. Priority [PPB+20].
Privacy [Mar89]. Prize [BBD+17].
probabilities [Ha93]. Problem [CDH+93, 
CSV91, DL09, USF9, CCBS11, RRJ+20].
Problems [BBG05, CD97, FG97, FFW+87, 
GGS01, MR90, NKS9, NKS90, SWW94, 
uTH07, TRS+10, TMIR06, DTL+21, 
KCC, Lal93, MC21, MHB15, SPW18].
Procedure [CGB+94]. Process 
[AM00, FGC+05, GCL93, SC04b, KIL13, 
WS+14]. Processes [MWC+05, GSK+15].
Processing [AK91, FP02, GLGLB+11, 
KHP+04, LP10, MA15, MT89, MOR89, 
MSK92, NTD10, OW09, P08a, PMS+04, 
Sali87, SP+10, SW+03, VLO+08, YW03, 
BE17, BCLC, CLG13, CMN12, DMQ12, 
GHHS15, KDO16, LQG16, PH19, RDG12, 
RWM17, SFL18, YZWW21, ZCZ+13].
Processor 
[MPG93, RVR06, SBF90, SK92, BGM15, 
DJJ+19, MAB+13, MAM19, Mon12, PH19].
Processors [Bri10, BBG+00, LR07, L88, 
MWAR+87, MOR89b, TMW+99, AGC+90, 
BBG+14, CRZ+11, MBC+18, MSQ15, 
PSV+16, SB19, TTH+13, YIME19].
Product [MCG04, BDC+21, ERI+88, SCKW19].
Production [MSK92, MH+18, SH09].
Productivity [Bar09, FJG+04, KKS04, 
Kep04a, Kep04b, Kuc04, SB04, Ste04].
Profiling [SMW07, SGFC09]. Program 
[Kit90, NHG+96, WGO7, Fem90, KJO5, 
WEB91]. Programmability 
[CCZ07, CLSS09]. Programmable [HC08].
Programme [HT04a]. Programmer 
[BEK+18]. Programmer-guided 
[BEK+18]. Programming [BBG+10, BV11, 
BF01, BBG+00, CH+88, CGW09, Cza03, 
EGG05, GNP02, KAL09, KKS04, 
KOK88, U509, MAT95, NPT+06, PA11, 
PBL09, Poz97, RW03, SAA8, SCB+95, 
SMW87, VEMR17, WLB92, BH17, CCCL18, 
EDB19, GBB18, GDKWS15, HLS+17, 
IVG+20, LPB18, MGB12, MDH+18, SB19].
Programs [ACM88, DLB07, GL04, HC10, 
LWOB97, NZ03]. Progress [AGL+87, 
BRU05, CAE+13, DJJ+19, MEK+19].
Project [BHK+06, CB+96, FK04, 
BCC+01, DBA+09, DBM+11, Mic09, 
OKTR11, PS87, PHB04, W19].
progress [MGFP20]. projects [ACF+11].
Promising [GIR02]. Propagation 
[GKN+96, AE+20, ASA6]. Properties 
[ACG+90, DFS+05, WLC91, ZM07, AKW19, 
PH12]. proposal [ZKRA14]. prospectus 
[Bra91]. Protein [ACD07, BHK+88, CN92, 
RGB+18, DSH+16]. Protocol [TNBG07].
Prototypical [WLWL+96]. Provided 
[LS06]. Providing [GKP97, SLL+19].
Proximal [NZ09]. Pruners [SLL+19].
pulse [ASA16]. Purity [HC08]. Purpose 
[CX08, Gus04, BE17]. Purpose-Based 
[Gus04]. Pushing [THH+13]. PVM 
[BDG+95, Mat95, SYF96]. PVMGeant 
[DZDR95]. PVODE [BH99]. PyCOMPSs 
[TBA+17]. Python 
[FK+17, LD07, RCE+20, TBA+17].
Q [KMH+14]. Quality [Mat03]. QCD 
[DIN91, J12]. QCDOC [DG+04]. QM 
[MFP+17]. QM/MM [MFP+17]. QoS 
[BSCC03]. Quadrics [YSP+05]. Quadtree 
[CL95]. Quality [PK04]. quantitative 
[WLG+18]. Quantized [Ham09]. Quantum 
[DFC90, FFW+87, IKY+10, KKY+90, 
Liu90, SSSW91, ARPY19]. Quarks
restoration [APD+15]. Restrained [CGB+94]. Results
[BMR06, GNTLH97, Jea13, PUR94, WLVL+96, BRGR11, BSH+16]. Rethinking
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