A Complete Bibliography of Publications in *The International Journal of Supercomputer Applications*, *The International Journal of Supercomputer Applications and High-Performance Computing*, and *The International Journal of High Performance Computing Applications*

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Title word cross-reference

#COVIDisAirborne [DCK+23].

2 [VSS+13, Wal18]. 256^4 [IKY+10]. 3 [AKW19, ARR99, BGM15, CSGM17, FIMU19, GGS01, HSLK11, KC18, PR95, SSCF19, THL88]. ^{2} [AMC+18]. ^{3} [KPST18]. α [TKSK88]. $\mathcal{H}^2$ [MY24]. $d = 2$ [BRT+92]. H [YIYD19]. $\mathbf{CH} + \mathbf{H}_2 \rightleftharpoons \mathbf{CH}_3^* \rightleftharpoons \mathbf{CH}_2 + \mathbf{H}$ [ASW91]. $\mathbf{CuO}_2$ [SSSW91]. *ILU* [SZ11]. k [TNLP13]. K_2 [CBW95]. *LU* [BLRR01, DD89, DD91, IGDQO19, LM23, MC21, YZC+15]. $M \times N$ [BYCB05, DP05, JLO05]. N [HJ96, SWW94, DAB+12, FT19, RTRG+07, INS+20]. $\star$ [NC18].

-Body [HJ96, SWW94, INS+20, RTRG+07, DAB+12, FT19]. **-D** [SSCF19, ARR99, GGS01, PR95, THL88]. **-matrix** [YIYD19]. **-ULV** [MY24].

0th [RAGW93].

100 [IHMM87]. **100k** [INY+14]. **10P** [DD89]. **164** [LT88]. **19** [ABL+22, JMM+21, LWL+23, OWC+21]. **1917-1991** [Mar91]. **1A** [HXW+13]. **1s** [McN89].

2 [BGB+22, CL95, CC95, CNW+23, CLM+16, DD89, DD91, DCK+23, GCL93, HGMW12, LT90, LYL+16, Mor89a, ZBH+23]. **200/VF** [DD89]. **2000** [CLBS17]. **2003** [OL05]. **2004** [DT06]. **2019** [BQOS21]. **2019-PACO** [BQOS21]. **205** [ABAS87, McN89]. **29** [Ano24].

3 [BG00, CM97, JLO05]. **3-D** [BG00, CM97]. **3.0** [BRM03]. **3090** [DD89]. **3090-200** [DD89]. **3090-200/VF** [DD89]. **31G*** [PUR94]. **3800** [WOG95].

416 [THL88]. **450** [MAB+13]. **4d** [EM23].

5 [HRM89]. **5/SE** [KJH96]. **5d** [EM23].

6 [Pla09, PUR94]. **6-31G*** [PUR94]. **600J** [DEKV92]. **623** [LYL+16]. **64-core** [VEMR17]. **6d** [EM23].

80 [DD91]. **860** [HGD91, KR95]. **87545** [Bus87].

90 [DL97].

A&M [Nas92]. **A-grid** [MYG23]. **ab-initio** [SKE+23]. **Abisko** [VDF+23]. **abstraction** [MFOAGE18]. **accelerate** [CNR+24, GLZS14]. **Accelerated** [ELEB21, FFZ+23, ABC+24, AWWG19, BLU+22, CSGM17, CMMW23, CGBL25, GDKWS15, IJB22, KNPS21, NOM+19, RDG12, RWM17, SFLC18, SE12, TRS13]. **Accelerating** [AJ24, BHZ+23, CLG13, HPS+22, JDD18, KPST18, LDLD19, MPD+12, VOL+14, WZH+20, CAE+13, JCK21, MP18, VBVD22, YFS+14]. **Acceleration** [AGC+19, ATL+15, CKE08, SO23, ŚCKW19, CLBS17, KDO16, LQJG16, MGS+15, PKC23, SDF+17, SSCF19, VSW+22, VMPW20]. **accelerator** [LCT+24, RMV+19, RTRZ22]. **accelerators** [Ano24, HDL+15, MCU+13, MFOAGE18, NOM+19]. **accelerators/InfiniBand** [NOM+19]. **Access** [Bri10, KR11, NTKP06, WHL03, DKMT18, DCN17, HGMW12, Wal18]. **Accessing** [HLP+03]. **Accuracy** [HCCG20, OY22, SK20]. **Accurate** [LR09, LRO10, TMWS91, VFD04, HLK+23, LCT+24, WSD+14]. **Acknowledgments** [Ano02c, Ano02d]. **Acoustic** [GKN+96, MBF+11, ALE+20]. **acoustics** [MSP+24]. **Across** [KS05, SB19]. **ACS** [Mar88a]. **Action** [DBA+09, Num04, TGS+22]. **Active** [Her91]. **Activity** [CY08]. **ACTS** [DT06]. **acute** [TGS+22]. **Ad** [BG02, CHZ02, IBC+10, TNBG07]. **Ad-Hoc** [IBC+10]. **Ada** [Kok88]. **adaptation** [DCLS19, RHK21]. **Adapted** [PMS+04]. **Adapteva** [VEMR17]. **Adapting** [DE03]. **Adaptive** [AH93, CKPD99, CW05, EDSV06, FSC+11, HT04b, HRW19, JSSZ09, Kal09b, RV15, SR05, TRS13, VR00, Wri12, dRADS+18a, GDM+23, IJB22, KBY+19, LST15, LPB+16, LSLR+20, LNR+24, ZMG+21, dFRD+23, FSC+11]. **Adaptive-CoMPI** [FSC+11]. **adaptively** [Sta19]. **Additive** [PR95, MK24, TBB+22]. **Address** [MHW15, SBG10, CLVYC+24]. **Addressing** [SWA+14]. **adjoint** [YWL+14]. **adjoint-based** [YWL+14]. **Administration** [SDA+01]. **Adsorption** [CH94]. **Advanced** [Ano87a, MA15, OMDS23, TC10, WH20, Don89]. **Advances** [KKDV03, KKD05, LK10, NPT+06, PALG+25, BC14]. **Advisor** [GVF+18].

Aerodynamics [YM91]. **aeromechanical** [PLJD24]. **aerosol** [ABL+22, DCK+23]. **Aerospace** [MAB07]. **affine** [RCAE+20]. **affinity** [HLK+23]. **against** [ABL+22, LWL+23, SFLC18]. **Agenda** [Ano87b]. **agent** [BCH+23, WDH+15]. **agent-based** [BCH+23]. **Agents** [QWIC02]. **Aggregation** [ZRÇ+06, AMC+18, WVL+16]. **agricultural** [SH93]. **ahead** [CNW+23]. **AI** [CDG+21, CNW+23, DCK+23, TGS+22, WHGT22]. **AI-based** [WHGT22]. **AI-driven** [CDG+21, TGS+22]. **AI-enabled** [DCK+23]. **AI4IO** [WHGT22]. **Aided** [MM90]. **aircraft** [GDS17]. **AIX** [Ano01a]. **Alamos** [BBB+91b, Bus87]. **Albany** [DWT+19]. **Albedo** [Tho90]. **Algebra** [CDQS04, CDP+94, Don02a, Don02b, Ede93, GJMS88, JO92, KJH96, MA15, PB19, Poz97, AAB+21a, ATD17, FTB13, AAT+20, GAA+25, LRLG19, MBvdG13]. **algebraic** [BGO20, HLRK24]. **Algorithm** [AH93, AEPR92, ARR99, BCCL09, Bai88, BMT89, CBW95, CBV97, DIB00, GJMS88, GCD97, HA91, HT04b, IIJ93, JL89, KVY+90, KC92a, KC92b, LP10, LRBS89, LJC+10, Mar87a, Mor89a, SCB+95, Sta19, SD87, TRS+10, UF89, WCE95, ABH+18, AAA+22, AHB+16, BGM15, DSH+16, GHL15, HLZ+20, INS+20, KWEF18, LSLR+20, MJGL13, NMAE13, NS21, PH19, RPdB+19, UZM+14, WWC+24, YZC+15, YB12, ZWS21]. **Algorithm-based** [Sta19, YZC+15]. **algorithmic** [HHSM19]. **Algorithms** [AM00, BG02, Cha88, CDT05, CAK+07, Fro91, GD09, GKMT00, HdV18, KLJ87, MS09, MPS15, NK89, NZ93, PMS+04, RRV06, SC04a, Sha88, Wad99, CGW19, Cec20, CdVL+18, CSC19, ESW+12, FTB13, LRLG19, NC18, QSX+20, dAVCM+19, McR87]. **aligned** [RWM17]. **aligner** [IMB+19]. **Alinea** [MA15]. **All-Gather** [TRS+10]. **all-reduce** [CGW19]. **All-to-All** [BJ92]. **Alliant** [DD91]. **Allocation** [AAF+01, FBBC03, WPBB01, YB07, Jea13, MRD+15, SPNB14]. **Alpha** [KHP+04]. **ALPINE** [AAA+25]. **Alps** [AGK+23]. **Altera** [RGB+18]. **Alternative** [SWHP05]. **Amazon** [Pap11]. **AMBLE** [HBSP08]. **AMD** [KNPS21]. **Amdahl** [ABD+18, HE01]. **amines** [PUR94]. **ammonium** [PUR94]. **Amplitude** [BGK+90]. **AMR** [RV15, SZC12]. **AMReX** [MZA+24, ZMG+21]. **analogs** [PUR94]. **Analysis** [ACD07, BBC+00, Del93, DH96, DF08, EGMP93, Eyr06, GHM+10, GNB11, HVWS09, HVSW09, HLW00, IMW+13, IHMM87, Ish91, LM03, LWL05, MB87, Mic09, RS03, SSQ08, SCB+95, SE92, SC09, SGFC09, SBG10, SBBS06, THDC09, WBFB04, YRA+02, ZRÇ+06, AAB+24a, AAA+25, dRADS+18b, BBDH14, BCLP17, CAA+20, CHWS20, DWT+19, EAG+19, FIMU19, FAB+21, GKR+22, GPO+20, IMH+11, IMH+12, JKD+11, JDAD19, LH18, LSES20, LRLG19, MPD+12, MP18, MCR+17, MJD16, MRD+15, PLJD24, PB23, PF16, RDPK22, STP+13, SDJ17, TKA+17, TDM+17, LS90]. **Analytic** [CHWS20, MA89, THDS19]. **Analytical** [FFR+10, HPA+22]. **analytics** [AGHR19]. **Analyze** [KKCB98]. **Analyzers** [Ano01a]. **Analyzing** [BRU05, NC18, UZM+14, WPBB01]. **Anatomy** [FKT01, KWEF18, YFH+96]. **Andabyss** [Spr06]. **Angara** [SDI+19]. **Animal** [UB95]. **animated** [LSS93]. **Animation** [SS89]. **anisotropic** [DCLS19]. **Annex** [Ano02f, Ano02h, Ano02g, Ano02i, Ano02j, Ano02e]. **Announcements** [Ano92a, Ano92b, Ano92c, Ano92d]. **anomalies** [JRP+23]. **Aperture** [MPG93, ZCZ+13, SVBP13]. **API** [BH00]. **Appendix** [Ano01a, Ano02f]. **Appendixes** [Ano01a]. **Appl** [Ano24]. **AppLeS** [SBWS99]. **applicability** [WKLW19].

Application [AS00, Bar09, BKRSR09, BCC+01, BWB+10, BPK+07, BB02, CWG09, DW97, DFMD94, FTB13, FSC+11, GHM+10, GHZ10, Kal09a, KKCB98, KS09a, MSHPV18, Mic09, MS95, NKR90, OCC+08, PPK09, PHC+10, SC09, TM99, TKA+17, AAB+24a, AKW19, CMS+11, CSC24, DEL+12, DBD+23, ESD+22, GVF+18, MPB+22, MCR+17, Ozs16, SHK+18, VSW+22, WD21]. **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, BBT23, BBH+06, BRU05, BJ92, BJK07, Bus87, CBL10, Cot04, Cza03, Dar99, Dee10, 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, SSNM92, SVN09, SBG10, SKC10, TXD+07, TLG98, TAR+08, Wal03, WWA+11, WBFB04, ZOF90, dSSB+08, AAB+21b, Akb24, ASHH16, Ano94c, dRADS+18b, ABD+18, AGHR19, BH17, BDE+25, BRGR11, BPR18, BSW+14, BEK+18, BGB+18, BHC+25, BTZ+25, BGI+25, BG11, CSS24, CDRV15, CSC24, CRS+19, CBD+17, CNR+24, DAB+12, DMQS12]. **applications** [ECG+13, EJD+19, GCSK13, HGWN14, IMB+19, JRT16, KPR17, LRG+16, Lap22, LSES20, LWT+11, LCD+24, MGB12, MFB+19, MCR+17, MDH+18, MCU+13, MBF+21, PH91, PNFC16, PALG+25, RV15, RSCC+24, SDJ17, SKZ+18, SIC+19, SLG95, SMZ+18, TM23, TNLP13, THC+11, TNCC21, UZM+14, VMPW20, WDW+12, WD19, WD24, ZMG+21, ZKS+24, Ano98b, Ano99, OMDS23, Ano91a, Ano98a, Ano00, Ano01b]. **Applications-** [Ano91b, Ano92e, Ano92f, Ano93a]. **Applications-Information** [Ano92g]. **Applied** [vLRA+03, BE17, IKMS+19, MÁAC+24, MPB+22]. **Applying** [Dem90, LDGR03, LSES20, MBHF15]. **Approach** [BYCB05, DZ07, FBW+87, KS09b, LDB+06, NTKP06, Sha88, uITH07, Spr06, DCM+17, FTB13, GS18, HLC+19, HGWN14, IGDQO19, KBY+19, MGB12, MP18, MJD16, PNFC16, ZB20]. **Approaches** [SWHP05, MJGL13, VSW+22]. **Approximate** [Cho01, HFV+12, MGFP20]. **Approximation** [DGJ09, LSLR+20]. **Aqueous** [PRT90]. **ArborX** [PALG+25]. **Architectural** [Gro03, TXD+07]. **Architecture** [BAA+06, Hua03, HWP03, Ish91, KBA00, KFM+10, SC04b, BHZ+23, BHC+25, HCCG20, MMDA19, RHK21, VDF+23]. **Architectures** [BFLL99, GD09, HD05, HdV18, HLW00, HSLK11, MS02, RW03, RS03, SSQ08, ABC+24, AKC+19, BSK14, AAT+20, GGMJF+20, HFV+12, IMH+11, IMH+12, INS+20, JO92, KILL13, LNSMMA15, PB23, STP+13, Udd17, VOL+14, YFS+14]. **Area** [DFP+96, MYCR06, MAJJS03, NBB+96, Ade21, Rad18]. **Argonne** [Don89]. **ARION** [HLP+03]. **Arising** [Ma00]. **Arithmetic** [BSBF89, Gro03, AAB+21a, LH19]. **ARMCI** [NTKP06]. **Army** [Aus92]. **Array** [BBDR95, CYT+02, JO92, LHD+25]. **Arrays** [HC08, NPT+06, CBD+17, DFT+15, Wal18]. **Arrival** [Wit92]. **art** [KNPS21]. **Artificial** [Ano87d, WPHS+25, YIME19]. **ASCI** [PK04]. **Aspects** [RW03, ZOF90]. **Aspen** [SVBP13]. **Assessing** [ACM88, MWC+05, TDG+19]. **Assessment** [ZOF90, ABL+22]. **assimilation** [DBD+23, FR22]. **Assist** [BB02]. **association** [GDKWS15]. **assuring** [IGA24]. **astronomy** [CLG13, VFJ+15].

astrophysical [FT19]. **Asynchronous** [ALE+20, TNBG07, BBDH14, MC21, NCA21, PH91, RWM17, TNCC21]. **Asynchrony** [WWA+11, QAL+23]. **Atmosphere** [DEE+12, HAF+96, MS05, MW12, TD08, AGC+19, EAG+19]. **Atmosphere-Ocean** [HAF+96]. **Atmospheric** [ARR99, DFS+05, GGS01, WD05, AWWG19, AJ24, Ano22a, MKM+19, NBE+22]. **atom** [TSH+19]. **Atomic** [HB90, IHMM87, LRT07, SYF96, HYY+22]. **Atomistic** [NKiN+08, GSK+15]. **Attributes** [Del93]. **Audio** [TC10]. **August** [DT13]. **Auto** [THC+11, CH13, KFJ20, TRS13]. **Auto-tuning** [THC+11, CH13, KFJ20, TRS13]. **Automata** [AKP08, MHS11, RES87, GDS17]. **Automatic** [BHK+06, CBL10, CDCV06, Cza03, KMPJ08, MJ04, RCAE+20, Yel04, CH13]. **Automatizing** [EB23]. **Automaton** [BCZM07]. **Automobile** [HTSK90]. **Autonomous** [SKB01]. **AutoParallel** [RCAE+20]. **autotune** [WTL+25]. **Autotuning** [OV13, BHK+13, CBM13, LSLD23]. **autotuning-based** [LSLD23]. **Availability** [Pra01]. **Aware** [KCC+06, TCW06, YBA+03, BGO20, CZR+11, GJMV18, HTD+14, HLW+16, JPV23, KPR17, MRD+15, WHGT22, BQOS21, SS10]. **Awareness** [HBSP08]. **Axisymmetric** [SG91]. **Azzam** [Ano24].

B [Ano02h, Ano01a, Ano02g]. **B.E.** [BPBL11]. **Babel** [EKD+12]. **Back** [BPBL11, BIC+10, BBD+17]. **Balance** [BG09]. **Balanced** [BFNV07]. **Balancing** [GS05, GLGLB+11, SK20, ZBMK11]. **Band** [Tho90]. **Banded** [Ano02k]. **bandwidth** [CIWI17]. **Barnes** [INS+20]. **barotropic** [KTP+24]. **barrier** [SKE+23]. **Based** [AM00, CY08, CLP+99, DCL+08, FSC+11, GGS01, GRC08, Gro03, Gus04, Hua03, Key09, MWM+08, Nak99, Num04, PGTS10, PPK09, PBAL09, QH08, SG07, TCW06, TC10, VDB04, WPBB01, dS21, Akb24, Ano24, ATL+15, BHZ+23, BGM15, BE17, BEW16, BCH+23, BHC+25, BAP+12, CDL20, CBM13, CHT+19, CZR+11, CNW+23, CCBL18, DSH+16, DAB+12, EDB19, ELEB21, FTB13, FR22, GSA+19, GDS17, HTD+14, HDL+15, HLP+03, JKD+11, JDD18, JKBW18, JCK21, LM03, LWL+23, LSLD23, MGB12, MSHPV18, MJGL13, ML20, NC18, PSV+16, PGK+24, STP+13, Sta19, SDI+19, SPNB14, TR17, TPG+18, WKLW19, WKLW21, WZHG17, WHGT22, YZC+15, YWL+14, ZZG+14]. **Basic** [Gir02, JO92, KJH96, Don02a, Don02b]. **basis** [AAG+23, EKF+19, LDLD19, LCT+24]. **Batched** [BHL+24, HDL+15, Ano24]. **Bay** [WLVL+96]. **Bayesian** [KPST18, LCD+24]. **BDDC** [SO23]. **Beambeam3D** [SSQ08]. **Beamforming** [CYT+02]. **Bearing** [FFNP97]. **Behavior** [AK93, BHZ+23, DCN17]. **behaviour** [CHT+19]. **Bell** [dS21]. **BenchFriend** [CS14]. **Benchmark** [DL09, HC10, CMMW23, DHL16, NMI+19, PSV+16, PF16]. **Benchmarking** [BRT+92, HBC+08]. **Benchmarks** [BCK+89, Gus04, McN89, MSK92, SGFC09, WGI90, WOG95, WG07, BWB+10, CS14, BBB+91a]. **benefit** [WLFH16]. **Benefits** [ACM88]. **Beowulf** [SS99]. **Bergen** [Gaf88]. **Best** [BPBL11, Lee03]. **better** [DCD+13, GGO16, SZ11, TGP19]. **between** [CSC24, SKS+13]. **Beyond** [Hab90, Mar89b, SBF90, SPHW18, INY+14, MZA+24]. **bi** [IGA24]. **bi-conjugate** [IGA24]. **Big** [AMB+18, YIN+11, CCBL18, Akb24]. **Biggest** [Ste09a]. **Bill** [Bus87]. **billions**

[HLH+19]. **Binary** [DIB00, LK01]. **Biofluid** [RKKC90]. **Bioinformatic** [GHM+10]. **Bioinformatics** [TXD+07, Cec20, MCR+17]. **Biological** [FFR+10, WW92]. **Biology** [SSNM92, VRRL18]. **Biomedical** [KHK+09]. **Biomembranes** [SABK94]. **Black** [UBK+23, SK20]. **Black-box** [UBK+23, SK20]. **blade** [KBY+19]. **blade-resolved** [KBY+19]. **BLAS** [ABC+24, BG11, DD89, DD91, RSCC+24, Ano02h, Ano02k, Ano02b, Ano02a]. **Blast** [Don02a, Don02b]. **Block** [Arn07, BS88, ZMG+21, CGBL25, DEKV92, GDM+23, LAZ+24, MC21, RV15]. **Block-Sorting** [Arn07]. **Block-structured** [ZMG+21, GDM+23, LAZ+24, RV15]. **Blocked** [BELF07, LSLR+20]. **Blocks** [HC08]. **Bloom** [LGDH16]. **Blue** [GNB11, KMH+14, MAB+13, SSU+12, YIN+11]. **BlueGene** [dSSB+08]. **BlueGene/L** [dSSB+08]. **Board** [SPTT08]. **BOAST** [VPG+18]. **Body** [HJ96, Nak99, RTRG+07, SWW94, TMWS91, DAB+12, FT19, INS+20, VIKM+22]. **Boltzmann** [SBBS06, CGST19, HBKR21, Mon12, OKTR11, RWM17, WKLW21, YZZW21]. **bond** [THDS19]. **bond-order** [THDS19]. **Bone** [HOPB92]. **Book** [Bus87, Con88, Don87, Mar87a, Mar87b, Mar88a, McR87, Nag89]. **Boundary** [uITH07, SG91, Ade21, KSF22]. **Boundary-Value** [uITH07]. **box** [SK20, UBK+23]. **BPEL** [MWM+08]. **Breaking** [SKE+23]. **brick** [LPB+16]. **Bricks** [LAZ+24]. **Bridging** [SS99]. **Brink** [Spr06]. **broad** [Rad18]. **broad-area** [Rad18]. **Broadcast** [BJ92, YSP+05]. **Brownian** [NSI20]. **brownout** [PMP+20]. **BSC** [LAV09]. **BSP** [dAVCM+19]. **BSP/CGM** [dAVCM+19]. **budget** [CCRV20]. **buffer** [LBB17]. **Build** [CD06]. **Builder** [DL97]. **Building** [CDH+97b, FD04, LJO05, SKZ+18, SW04, Wit92, vLRA+03]. **Bulk** [DGP+97, MAJJS03, Jon12, WDW+12]. **bundle** [WVL+16]. **Butterfly** [Kum89]. **Buzbee** [Bus87]. **Byte** [WG07].

C [Ano02i, Ano02j, dRADS+18b, BLC17, CMMW23, DLVL+24, LJC+10, LNK22, MYG23, Poz97, TDM+17]. **C-grid** [MYG23]. **C/C** [DLVL+24]. **C90** [ABF+99]. **Cache** [BMWD87, BH06, GHM+10, MK24, SC04a, Wad99, ABD+18, ABG+19, CHT+19]. **Cache-Coherent** [Wad99]. **Cache-Efficient** [SC04a]. **cache-oblivious** [CHT+19]. **Cache-optimized** [MK24]. **cache-partitioned** [ABD+18, ABG+19]. **caches** [CSC19]. **Caching** [kLCCW07]. **Cactus** [AAF+01]. **Caffe** [MPB+22]. **calcium** [CHW+15]. **Calculation** [ACG+90, BGK+90, TMWS91, HIT+14]. **Calculational** [ZOF90]. **Calculations** [CDD+90, Gen88, Liu90, TMW+99, YCHH90, ZK93, CLM+16, HTD+14, LD24, QSX+20, SDI+19, TKSK88]. **Calibrating** [ABH+18]. **Call** [DBA+09]. **Caltech** [Din91]. **Caltech/JPL** [Din91]. **CAM** [TD08, DEE+12, LMT+12]. **Campus** [GNTLH97]. **Campus-Wide** [GNTLH97]. **Can** [Pan97, VFJ+15]. **Canada** [Nun87]. **Cancers** [GKB93]. **Candidate** [MCS+06]. **Cane** [YWL+14]. **capabilities** [AAA+25, IMS16]. **Capability** [GS09, BBH+13, CYZ+20, DVW+12]. **capable** [RWM17]. **Capacity** [BL99]. **Carcinogens** [HB90]. **cardiac** [BSW+14]. **Cards** [Gro03]. **Carlo** [BEH+90, CH94, DFT+15, FSS13, LM03, LPB+16, MWAR+87, MB87, MFP+17, SABD13, SSSW91, SSR+14, VSS+13, ZK93]. **Carolina** [LC90]. **Case** [BF01, BDFVP15, CBW95, CDH+97b, GLGLB+11, GL97, HL10, HE01, HLP+03, MT89, PPK+04, SG09a, WGI90, WLB92,

WW92, BSW+14, CGGC+16, CMS+11, DTL19, GGMJF+20, IGA24, IMB+19, MBvdG13, MCR+17, OF17, TKA+17, THC+11, WZH+20, YWL+14]. **cases** [CDL+19]. **cat** [YIME19]. **cat-scale** [YIME19]. **CBVE** [WLVL+96]. **CCDSC** [DT13]. **CCGSC** [DT11]. **CCSM4** [CVJ12]. **CEBAF** [DZDR95]. **Cell** [EGG05, WET+19, BPBL11]. **Cell/B.E.** [BPBL11]. **cells** [RPdB+19]. **Cellular** [AKP08, BCZM07, MHS11, GDS17]. **Center** [AAB+21c, All88, lSD89, Mer87, RS88, MP95, OLOF23, Aus92, ABB+94, BBW90, DGH+93, KT94, LC90, Mai87, Mir90, Nas92, Sci92, TR92]. **Centers** [All88, Aus92, BBB+91b, Bra91, BBW90, GS09, KT94, Nas92, TR92, Web91]. **Centre** [Gaf88, MHW15]. **Centric** [SR05]. **Century** [BHdR09]. **cerebellum** [YIME19]. **CERFACS** [lSD89]. **CESM1** [CVJ12, CMHB15]. **CFD** [GKMT00, IGBBR23, KDL01, LDGR03, MAF+22, RHK21, WZH+20, WKLW19]. **CFD-DEM** [MAF+22]. **CFDShip** [BCYS11]. **CFDShip-Iowa** [BCYS11]. **CGM** [CDT05, dAVCM+19]. **CGMGRAPH** [CDT05]. **CGMGRAPH/CGMLIB** [CDT05]. **CGMLIB** [CDT05]. **CGNR** [Man97]. **chain** [DSH+16]. **Challenge** [BEH+90, CBB+96, DSD+91, GD09, IKY+10, Kit90, RAGW93, SGFC09, NMI+19, RAB+15]. **Challenges** [Cap09, GL09, Her09, KMW+13, VFJ+15, GR17, WD19, WD24]. **change** [ZCZ+13]. **Changing** [MMS88]. **Chapel** [CCZ07, CH13, DZ07]. **Characteristics** [McR87, LWT+11]. **Characterization** [Kal09a, LPJ98, TMMR10, WDW+12, Har11]. **Characterization/Segmentation** [Kal09a]. **Characterizations** [JPV23]. **Chaste** [BSW+14]. **checker** [TDG+19]. **Checkpoint** [CY08, SSB+05, BRR17, IFA15]. **Checkpoint/Restart** [SSB+05]. **checkpoint/verification** [BRR17]. **Checkpointing** [GNB11, SSB+05, HLC+19, KHS+19]. **Chemical** [ARR99, Bro88, DFC90, Koi90, Mar88a, MMS88, TWK87, YZZW21]. **chemical-potential** [YZZW21]. **Chemically** [LP10, MYC92]. **ChemIO** [NFK98]. **Chemistry** [ATD+88, Bro88, EDS95, Mar88a, NFK98, TMW+99]. **Chesapeake** [WLVL+96]. **chimera** [HLZ+20]. **China** [CYZ+20, SKC10]. **chip** [KDH18, VEMR17]. **chips** [LTPK17]. **Cholesky** [CDL20, Jea13]. **Chroma** [JC12]. **Chromodynamics** [Liu90]. **CICE** [CMHB15]. **Circular** [AEPR92]. **Circulation** [KM95, PLS05]. **Clacc** [DLVL+24]. **Clang** [DLVL+24]. **CLAS** [DZDR95]. **Class** [McN89]. **Classification** [Tho90, WEPB12]. **Client** [kLCCW07]. **Client-Side** [kLCCW07]. **Climate** [CJK+05, DJC05, GS05, JLO05, WOS08, WHL03, Ano22a, BBA+21, NBE+22, WDH+15, YWL+14]. **Climatic** [WBMY90]. **clones** [CSC24]. **Cloud** [LJC+10, AGK+23, Ano22a, BTRZ+19, LNK22, MCR+17, NBE+22, TR17, TPG+18]. **cloud-based** [TPG+18]. **Clouds** [Dee10, DT11, DT17, Tho90, DT19, DT23, MGB12, MRD+15]. **Club** [BCK+89]. **Cluster** [BFNV07, CK01, DMT01, Fra05, GSHL03, JSSZ09, KT99, LWL05, WG07, BHZ+23, GDKWS15, MHS11, NOM+19, WZHG17, JDD18]. **Clustering** [NRR97, DSH+16, ZWS21]. **Clusters** [AWS01, BG09, CDT05, CAK+07, CWG09, CDCV06, DT99, DT11, DT17, Gir02, KS05, LDB+06, MWC+05, PPK+04, PC08a, SG09a, Ste01, YB07, AGK+23, CvG11, DTDP14, DT19, DT23, EEL15, HLS+17, JRT16, JC12, MBC+18, MGFP20, Pap11, PFGDM20]. **CM** [CC95, KJH96]. **CM-2** [CC95]. **CM-5** [KJH96]. **CM-5/SE** [KJH96]. **CM2** [CH94]. **CMP** [ABG+19]. **Co**

[ABD+18, ABG+19, FAB+21, GD09, Ger21, Mat03, BPR18, Jon12, UCZ+15, AAB+21c]. **Co-Design** [GD09, FAB+21, Ger21, UCZ+15, AAB+21c]. **Co-reservation** [Mat03]. **Co-scheduling** [ABD+18, ABG+19, Mat03, BPR18, Jon12]. **Coarse** [BGB+96, DZRS99]. **Coarse-Grained** [BGB+96, DZRS99]. **Coastal** [Cow08]. **coaxial** [PLJD24]. **Code** [AD89, AJL+97, BBA87, BH00, CK01, CEL+97, Del93, DZDR95, HL10, HE01, LWL05, MMD98, MS02, MT89, MBF+11, MSK92, PPR03, Pla09, WZH+20, YW93, BSH+16, DWT+19, DAC+14, FU12, HIT+14, HBKR21, INY+14, JKD+11, MBvdG13, MGS+15, PHF21, RHK21, SSR+14, TRS13, TGP19, VRB+19]. **Codes** [AS00, BGB+18, CL95, DL97, IHMM87, MCW+00, Reu92, SWW94, ESD+22]. **codesign** [VDF+23]. **coexistence** [CBA+18]. **Coherent** [Wad99, PS12]. **Collaboration** [SG09b]. **Collaborative** [DFH+96, HBSP08, NBB+96]. **Collaboratory** [YFH+96]. **Collapse** [Gun00, HTSK90]. **Collection** [DT06]. **Collections** [HLP+03]. **Collective** [BMR06, FCLG07, KFM+10, LCZ+15, TRG05, VFD04, KMH+14, SCB14]. **collectives** [DJJ+19, WLFH16]. **Collide** [NBB+96]. **collision** [VOL+14]. **Colmena** [WPHS+25]. **Color** [IMH+11, IMH+12, Tho90]. **Color/Albedo** [Tho90]. **Columbia** [MAB07, HBC+08]. **combatant** [BCYS11]. **combination** [ASHH16]. **combinatorial** [AAB+21b, BG11]. **Combined** [YK04, BLOR18]. **Combining** [Gir02, LSLD23, Mon12, SCB14]. **Coming** [de 89]. **commercial** [MRD+15]. **Commercialization** [SG09b]. **Common** [ZM07]. **Communication** [BCG+10, BYCB05, BKS+07, BBDR95, FIMU19, HC10, INY+14, JLO05, LR09, LRO10, LRT07, NTKP06, PLS05, QH08, RW03, SWHP05, TRG05, TGT05, BGO20, BBH+13, CSC19, DGB+14, IYK16, NOM+19, OGM+16, RWM17]. **Communication-overlap** [INY+14]. **Communication/Computation** [BBDR95]. **Communications** [Ano87e, BMR06, Bus87, VFD04, SCB14]. **Communicators** [GFD05]. **Community** [DBA+09, HBSM03, CJK+05, DVW+12, DEE+12, DJC05, ESW+12, HVKW05, JLO05, MS05, MW12, TD08, WD05]. **Comparative** [MOK00]. **Comparing** [BF01, KdOCR+20]. **Comparison** [BSK14, BBT23, CAK+07, Gen88, HC10, Jon92, KM95, Mat95, SR98, MYG23, SFLC18, WKLW21]. **Comparisons** [Ma00]. **Compensation** [MSMW07]. **CoMPI** [FSC+11]. **Compilation** [BJK07, CW05, PG18]. **Compiler** [CW05]. **Compilers** [Ano01a, YHG+07]. **Complete** [LK01]. **completely** [PH19]. **Completion** [CY08]. **Complex** [ASHH16, Dar99, GKB93, GHZ10, PK04, BGI+25, CSGM17, EHTW21, LNR+24, WKLW19]. **complex-entry** [CSGM17]. **complexes** [HLK+23]. **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** [NMAE13]. **composites** [LPB+16]. **Composition** [Cot04, DLB07]. **Compositional** [AWS01, BBD00, KR94, KR95]. **Compounds** [FWZ91]. **Compressed** [AAG+23, LHD+25]. **compressible** [HHSM19, dFRD+23]. **Compression** [Arn07, DLY+98, DF08, FSC+11, CGGC+16, CCO+19, CDL+19, CGBL25, HLRK24, IFA15, KV19, Ozs16, PDDI22, TDG+19, UBK+23]. **Compressors**

[GMWG10, YK07]. **Compromised** [LJC+10]. **Compromised-Time-Cost** [LJC+10]. **COMPSs** [CCBL18]. **Comput** [Ano24]. **Computation** [BBDR95, CBW95, Chu99, lSD89, GWKN08, Her88, HS93, JP93, Nag89, SSNM92, Ste09a, Ste09b, Tis97, WSCZ05, SVBP13, WEPB12, ABB+94, KT94, TR92]. **Computational** [Blo87, CD97, Cha88, CDH+97b, DVW+12, DFMD94, DGJ09, DT99, DGH+93, Duk91, EGMP93, FBW+87, Gen88, HBSM03, HOPB92, HL10, JL89, NFK98, Num04, PK04, PBE+19, RBMF87, SK90, SG07, SBWS99, SW04, TMW+99, VR00, Wit92, WPBB01, YM91, YK07, Ytt97, AFL+18, BSW+14, CGGC+16, CBA+18, DCK+23, DTL19, JKBW18, PDDI22, TBA+17, VRRL18]. **Computations** [BBR10, Ber92, Duk91, MA15, MCG04, SD87, ALE+20, Ano24, BCYS11, BCLP17, DKMT18, HDL+15, LAZ+24, LHD+25, MK24]. **compute** [KL13]. **Computer** [BEF+95, Bus87, CKE08, Cla91, Don89, GL09, HKK88, HD05, JL89, KT99, MM90, PS87, TWK87, VC89, WBMY90, AHB+16, BAM+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, EDS95, FG97, FFNP97, GP93, Gun00, IS96, Jon92, Meu88, CGST19, FAB+21]. **Computing** [ATN+00, Ano87a, Ano87d, Ano94c, Ano95b, Ano98b, Ano98a, Ano99, Ano00, Ano01b, Aus92, BV11, BM12, BM13, BGI+99, BQOS21, BAA+06, BBT23, BRT+92, Bus87, CWHP99, CNR+24, DF18, Dar00, Dem90, Don89, DT99, DMT01, DT11, DT17, DCL+08, Ede93, EDSV06, EW06, EW22, ESD+22, Ewi88, Eyr06, FGC+05, FGJ+04, Gaf88, GHM+10, Ger21, GMWG10, GNTLH97, GL97, HME90, Her09, JLL04, JSSZ09, Joh01, KDH11, Kep04a, KT99, Kuc04, KHK+09, KS05, LS90, LJC+10, LD07, MPS15, Mah90, MYCR06, Mar87a, Mat95, ME14, PPK09, PA11, Rao02, RAGW93, Sab91, Sal87, SKB01, Ste01, Ste04, SFP02, SKC10, THDC09, Wal03, YBA+03, ABH+18, AFGQO19, AMB+18, ARPY19, BHZ+23, Bai20, BE17, BTRZ+19, BBA+21, BLOR18, BAP+12, CSS24, CGW19, Cec20, DTDP14, DHL16, DT19, DT23]. **computing** [DAC+14, ECG+13, EDB19, EB23, EKD+12, Fem90, FKA+17, GR17, GSND20, Har11, HLRK24, IYK16, IFA15, JdSA+17, KT94, LDLD19, LBB17, MEK+19, MDW+23, MFB+19, MCU+13, MBF+21, MZA+24, PPC+16, RRJ+20, SWA+14, STS17, TNLP13, VSHN14, WZHG17, WD19, WD24, ZKRA14, Lee03, Ano94a, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a]. **Computing-** [Ano94c, Ano95b]. **Computing/Numerical** [THDC09]. **concept** [RTRZ22]. **concurrency** [DGB+14]. **Concurrent** [AH93, BMWD87, Fro91, BRGR11]. **Conference** [Gaf88, OL05, KKDV03]. **Configuration** [AEPR92, LTPK17, LBB17]. **Configuring** [PPK+04]. **Confined** [ACG+90]. **Confinement** [BGB+18]. **Conjugate** [AH93, CSV91, MG87, DHL16, IVG+20, IGA24, KSM23, KMM16, PSV+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** [GS09]. **Constant** [MP94]. **Constrained** [FSS13, LJC+10, NKR90, IK18]. **constraint** [DAB+12]. **constraint-based** [DAB+12]. **Constraints** [CY08, GSHL03, BLOR18, CCRV20, LCZ+15]. **construction** [PS12]. **consumption** [BDC21, BLOR18, CGGC+16]. **containers** [EB23]. **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** [AWWG19]. **continuum** [BTRZ+19]. **contrast** [RPdB+19]. **Contributors** [Ano91b, Ano91a, Ano92g, Ano96c, Ano96a, Ano97b, Ano97c, Ano98a]. **Control** [AK91, AK93, Dar00, DFH+96, VR00, HRW19, RRJ+20, WDW+12]. **Controlled** [DSD+91]. **Controllers** [MFOAGE18]. **controlling** [OF17]. **converge** [CCBL18]. **Convergence** [BBR10, 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+19, BBG+14, BH12, CAE+13, DEE+12, DDKK19, INS+20, KDH11, KILL13, LMT+12, LDW+12, LNSMMA15, MSPSI15, PSV+16, SSR+14, TKA+17, Udd17, VEMR17, VRB+19, VOL+14, YFS+14, GLZS14]. **cores** [DJJ+19, FU12, INY+14, LYL+16, LM23, OY22]. **Cornell** [Mer87]. **coronavirus** [TGS+22]. **coronavirus-2** [TGS+22]. **correction** [AG18, YFS+14]. **Correlating** [CS14]. **correlation** [CLG13, GHL15]. **Correspondence** [BH99, IS96, PTGB02, WLB92]. **Corrigendum** [Ano19, Ano20a, Ano20b, Ano22a]. **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, BG22, KC18, NOM+19, SKP+22, YJZN22]. **Coupler** [CJK+05, CVJ12]. **Coupling** [HD05, JLO05, LJO05, MTW+22, PPR03, EW22]. **CoV** [BGB+22, CNW+23, DCK+23, ZBH+23, CDG+21]. **COVID** [dS21, ABL+22, JMM+21, LWL+23, OWC+21]. **COVID-19** [dS21, ABL+22, JMM+21, LWL+23, OWC+21]. **CPL6** [CJK+05]. **CPU** [BL99, BJWS20, GHL15, HTD+14, PFGDM20, SHK+18, TM23, VRB+19]. **CPU-GPU** [HTD+14, TM23]. **CPU-MIC** [SHK+18]. **CPUs** [HBKR21, KDH11, SFLC18, 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]. **CRE2017** [Mas19]. **CRE2019** [KM20]. **creation** [EB23, KILL13]. **Creutz** [BRT+92]. **Crisis** [BE07]. **Criteria** [BKRSR09]. **critical** [SDJ17]. **critical-path** [SDJ17]. **Cross** [PLS05, CLG13, LSLR+20, SK20, WVL+16]. **cross-bundle** [WVL+16]. **cross-correlation** [CLG13]. **cross-machine** [SK20]. **Cross-Platform** [PLS05]. **crowd** [VOL+14]. **CRPC** [CDP+94]. **crucial** [SZ11]. **Cryo** [TGS+22, SSCF19]. **Cryo-EM** [TGS+22, SSCF19]. **Crystal** [Cla91]. **crystalline** [HXW+13]. **crystallisation** [WSD+14]. **Crystallography** [CDH+93]. **CUBE** [JBOT19]. **CUDA** [DSH+16, GDKWS15, KKB+21, KNPS21, MV20, SDJ17, TM23, ZZG+14]. **CUDA-accelerated** [GDKWS15]. **CUDA-enabled** [DSH+16]. **CUDA/HIP** [TM23]. **CUMULVS** [GKP97, KWB06]. **Current** [Cap09, GFD05, GCSK13, LVA+13]. **cutting** [HLZ+20]. **CYBER** [ABAS87, McN89]. **cycle** [AHB+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, BCH+23, BH06, CFK+94, CBW95, DP05, DH96, DZ07, DT17, DFT+15, Fei99, Fol90a, GMLP08, GG11, HJ96, JW06, Joh01, KUE+00, LR07, MAJJS03, RRV06, SS89, SS10, TLdS22, VS03, WHL03, ZRÇ+06, AKW19, APD+15, ATL+15, AMB+18, BTRZ+19, CDL+19, CCBL18, DBD+23, DCN17, DT19, DT23, EMP+18, FKA+17, FAB+21, FR22, FFZ+23, GKR+22, HLW+16, IGBBR23, KV19, KSM23, LD24, Lap22, LGDH16, LM23, LCT+24, MRD+15, OLOF23, OWC+21, Ozs16, PDDI22, PB23, PH91, PBB+20, PG18, QAL+23, RWM17, STP+13, SZ11, TDG+19, TDM+17, UBK+23, WDH+15, Akb24]. **data-dependent** [LCT+24]. **Data-driven** [BCH+23, TLdS22, BTRZ+19, IGBBR23, OWC+21]. **Data-Intensive** [GMLP08, KUE+00, ACF+11, FKA+17]. **Data-Parallel** [HJ96]. **Database** [MS09]. **Databases** [RGB+18]. **Dataflow** [ACM88, Sha88, JDD18, WZHG17]. **dataflow-based** [JDD18, WZHG17]. **Datagrid** [PHB04]. **Datasets** [SE92, ZM07, GVR+21]. **Datatype** [SWHP05]. **Davidson** [UF89]. **deadline** [CCRV20]. **Deadlock** [LBB17]. **Deadlock-free** [LBB17]. **Dealing** [GSHL03]. **Debuggers** [Ano01a]. **Decision** [GWKN08, BCH+23, JCK21]. **Decision-Making** [GWKN08]. **Decomposition** [BLRR01, Cha88, GCD97, Meu88, NK89, DFT+15, IKMS+19, KLR+21, Lai93, YZC+15]. **Decoupled** [PH91]. **Dedicated** [CAK+07, GSHL03, DJJ+19]. **deduplication** [LD24]. **Deep** [VDF+23, BHZ+23, CHT+19, JMM+21, LSLD23, VRB+19]. **defined** [ADMP18, AGK+23, JDAD19]. **Defining** [KKS04]. **deformable** [SE12]. **degrees** [TAM+16]. **degrees-of-freedom** [TAM+16]. **Delay** [Rao02]. **Delivering** [BTZ+25]. **delta** [DCK+23]. **Demand** [EW06, dPIdA03]. **Demystifying** [TNCC21]. **Dense** [Ano02k, BGG05, BDL+07, Ede93, LRLG19, MY24, MBvdG13, SCR11, TQOA23]. **density** [HBKR21, LNSMMA15, QSX+20]. **density-functional** [QSX+20]. **Department** [Kit90]. **dependencies** [ELEB21]. **Dependent** [MBF+11, LCT+24]. **Deployable** [GCL93]. **Deploying** [CdVL+18]. **Deployment** [CDCV06, GCL93, GMLP08]. **deposited** [GSK+15]. **Deposition** [MD99]. **depth** [JDAD19]. **derivatives** [Haj93]. **Derived** [SWHP05, MDH+18]. **deriving** [IGDQO19, MBvdG13]. **describing** [ABH+18]. **Design** [AEG+03, BGI+99, BBH+13, BBMB19, BRM03, BH06, CE00, CLP+99, CTD+05, Dar00, DZRS99, DFH+96, DJC05, EGMP93, FGC+05, GJMS88, GCCC+03, GHM+10, GD09, KS09b, PPK09, SD87, AAA+22, BHL+24, BG11, DTL19, FAB+21, Ger21, JMM+21, UZM+14, UCZ+15, AAB+21c, Mar87a]. **designed** [CNR+24]. **Designing** [RWM17, SWHP05, SKS+13, ZWS21, ZRG+24]. **Desmos** [SDI+19]. **Detailed** [EDS95, SBBS06, CHWS20]. **Detecting** [CSC24, JRP+23]. **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, BLU+22, BCC+01, BBD00, Dar99, GKR+22, HL00, HRM89, Kal09a, LC90,

LD07, MM90, MS19, PPS09, Eri88]. **Development/Tuning** [Kal09a]. **Developments** [YSS+06]. **device** [Lai93, OF17, SKP+22]. **Devices** [PHC+10, RKKC90, Rad18]. **DG** [MV20]. **DG-MOSFETs** [MV20]. **DGEMM** [OOY24]. **diagnosis** [DCM+17]. **diagonal** [YLL+14]. **Diagrams** [FWZ91]. **Dialogue** [LS06]. **Diego** [Mai87]. **Dielectric** [ZOF90]. **Diet** [CD06]. **Difference** [CC95, THL88, EKF+19, WKLW21]. **different** [LWT+11]. **Differential** [Key09, Meu88, BDE+25, KS89, RMS+18]. **differentiation** [HHSM19]. **diffraction** [EEL15]. **Diffusion** [BFNV07, EDS95, SG91, TWK87, BG22, LMT+12]. **Diffusion-Limited** [TWK87]. **diffusion/filtering** [LMT+12]. **Digital** [ABL+22, MPG93, YFH+96, GHL15]. **dilation** [LST15]. **Dimensional** [BCZM07, CSY10, EGG05, LT90, MT89, BE17, KS89, KRR19, LSS93, PLJD24, YFS+14]. **Dimensionality** [BFLL99]. **Dimensions** [TWK87]. **Dip** [LT90]. **Dipole** [DGJ09]. **Dirac** [PHF21]. **Direct** [Bri10, CM97, HVWS09, HVSW09, LWL05, BHL+24, CGBL25, KMJ+23]. **Direction** [Mah90]. **Directionally** [SZC12]. **Directions** [Fol90a, PBB+20]. **Discharge** [YW93]. **discontinuous** [AWWG19, MSP+24]. **Discovery** [AEG+03, AAF+01, ASAK19, GVR+21, LWL+23, PBB+20, AEG+03]. **Discrete** [DGJ09, Ham91, DMSMG18, Mon12]. **discretizations** [KFM+21, LH19, PKC23]. **discriminating** [SKS+13]. **disembarking** [GDS17]. **Disk** [KNP+87]. **Dislocation** [HSLK11]. **Disordered** [KVY+90]. **dispel4py** [FKA+17]. **Dispelling** [Ano87c]. **Dissemination** [GL97]. **Dissolution** [Cla91]. **Distance** [HME90, KR11]. **Distances** [KTWL18]. **Distributed** [AKP08, AF09, BGG05, BFLL99, BGF02, CWHP99, CYT+02, CLF87, CB95, Dee10, DFMD94, DCCS10, EDSV06, GKN+96, GGS01, Gir02, HC10, HD05, HdV18, JMP02, KT99, LWOB97, MYCR06, MWAR+87, Mat95, MCW+00, Nag89, NKP+00, OMDS23, QWIC02, Rao02, RBMF87, SWG+03, SPNB14, YIYD19, YRA+02, ZRÇ+06, dPIdA03, ABH+18, CBD+17, EDB19, GEKO19, IGBBR23, JRT16, JO92, RCAE+20, THDS19, VMPW20]. **Distributed-Memory** [MCW+00, YIYD19]. **Distributing** [CBSB01]. **Distribution** [TCW06, TC10, QSX+20]. **Distributions** [DZ07]. **diverse** [ABC+24, AGK+23, PBB+20]. **Divide** [Cza03]. **Divide-and-Conquer** [Cza03]. **dividends** [DTL19]. **Divisible** [DLG06, MYCR06]. **Division** [Bus87, Don89]. **DNA** [DTDP14, GPO+20, HB90, MP18, PRT90]. **Docking** [GHM+10]. **DOE** [HBSM03]. **Domain** [Cha88, CDH+97b, GCD97, Lai93, Meu88, WCDS99, CSGM17, IKMS+19, KLR+21, PHF21, YJZN22]. **Domain-Specific** [CDH+97b, PHF21]. **Donation** [TCW06]. **Donation-Based** [TCW06]. **Dong** [Ano24]. **Dongarra** [Ano24]. **Double** [PRT90]. **Drift** [BFNV07]. **Drift-Diffusion** [BFNV07]. **Drive** [HE01, PPS09]. **Driven** [CHZ02, DCL+08, YB07, BTRZ+19, BCH+23, CDG+21, DAB+12, IGBBR23, OWC+21, TLdS22, TGS+22]. **droplet** [ABL+22]. **droplet/aerosol** [ABL+22]. **drug** [GVR+21, JMM+21, LWL+23, MSPSI15]. **Dual** [BBC+00, FT19, Ish91]. **Dual-Level** [BBC+00]. **Dumont** [BCP+20]. **Duration** [CY08]. **DV** [TKSK88]. **DV-X** [TKSK88]. **Dynamic** [AAF+01, ABAS87, BCM+03, BG00, CY08, DLY+98, DFMD94, GFD05, HWP03, IMB+19, MÁAC+24, SCB+95, SVN09, TM99, FFZ+23, LGDH16, MJD16, PMP+20, SCB14]. **Dynamical**

[DFS+05, FBW+87, HT04b, MS05, SWW94, DEE+12, DDKK19, LMT+12]. **Dynamics** [ACD07, BMT89, CGB+94, Cha88, CWG09, DQFW90, DGD+04, Gen88, Gun00, HL10, HSLK11, JL89, KVY+90, MP94, Nak99, NHG+96, PRT90, RBMF87, SK90, ABH+18, AKC+19, AKW19, BHZ+23, CDG+21, CHW+15, HXW+13, KFJ20, KKL+19, KNPS21, PDDI22, PGK+24, PIR+20, SKE+23, SDI+19, ZBH+23].

E-Science [HWP03, HT04a]. **E3SM** [LNK22]. **E3SM-MMF** [LNK22]. **eager** [ELEB21]. **eager-release** [ELEB21]. **Early** [GKN+96, GNTLH97, HGD91, Kal09a, SLG95]. **Earth** [DVW+12, ESW+12, MEK+19, CTD+05, CVJ12, DEL+12, IKY+10]. **earthquake** [AHB+16, CMS+11, MTW+22, BAM+16]. **earthquake-cycle** [AHB+16]. **ease** [MFOAGE18]. **EC2** [Pap11]. **ECG** [Arn07]. **ECJ** [CdVL+18]. **Ecological** [WBG06]. **Econometric** [ABAS87, GP93, PS87]. **Economic** [BE07, LC90, NKR90, SG07]. **Economic-Based** [SG07]. **Economics** [AK91]. **Ecosystem** [WBG06, AFGQO19]. **ECP** [AAA+25, BHC+25, BGI+25, HMA+24]. **Eddy** [CK01]. **edge** [BTRZ+19, CSGM17, Rad18]. **edge-emitting** [Rad18]. **edge-FEA** [CSGM17]. **edge-to-cloud** [BTRZ+19]. **editor** [DT18, DT19, WD21, DT17, WD18, WD19, WD24, dA03]. **Editorial** [Cho23, CDH+97a, Don92, DT09, Mar92, Mar94, Wit92]. **editors** [DT23, BM13, Cec20]. **Education** [Mah90, Sab91, KT94]. **Effect** [SKSG19]. **Effective** [BCK+89, Pan97, LWL+23]. **effectiveness** [TR17]. **Effects** [WBMY90, Haj93]. **Efficacy** [GWKN08]. **Efficiency** [ABAS87, DFS+05, GHM+10, ATD17, ECG+13, JdSA+17, KLR+21, MJD16, SFLC18, UZM+14]. **Efficient** [ACG+90, AEPR92, BRR17, CDG+14, DAD+22, DMT97, GMLP08, HF24, HS93, KFJ20, KC92a, KC92b, KKL+19, KFM+21, KUE+00, LR09, LRO10, LP10, MG87, MFP+17, OWO98, SC04a, TD08, YZZW21, BBMB19, BTZ+25, DBD+23, HBKR21, KV19, KKB+21, LNSMMA15, MMDA19, Ozs16, RMV+19, SDI+19, TKA+17, Wal18]. **EFFIS** [SKP+22]. **eigen** [LCT+24]. **eigen-basis** [LCT+24]. **eigen-spectrum** [LCT+24]. **eigensolver** [HTD+14, VIKM+22]. **Eigenvalue** [HS93, Tis97, UF89, LCT+24]. **Eigenvalues** [KC92a, KC92b]. **ELAPS** [PB19]. **Elastic** [ACD07, FR22]. **electrodynamics** [YJZN22]. **electrodynamics-micromagnetics** [YJZN22]. **Electromagnetic** [DGP+97, CMN12]. **electromagnetics** [CSGM17, OGM+16]. **Electromagnetism** [BGG05]. **Electron** [FFR+10, KVY+90]. **Electronic** [FWZ91, TMW+99, HTD+14, HIT+14, PHF21, SKE+23]. **electrophysiology** [BSW+14]. **Electroweak** [BGK+90]. **Element** [AJL+97, BBA87, DFS+05, EGG05, FSN08, GCD97, KM95, MMD98, MS02, THC+96, de 89, Ade21, AFL+18, BSW+14, DWT+19, DEE+12, EAG+19, KFM+21, KSM23, MGS+15, MSP+24, Mon12, PKC23, PH19, RTRZ22, SMK+20, ŚCKW19, VSW+22, WZH+20]. **elements** [AAB+24b, ZB20]. **Eliminating** [HME90]. **embedded** [KPR17, KK01]. **Embedded/** [KK01]. **EMD** [LSES20]. **EMD/HHT** [LSES20]. **emergency** [GDS17]. **emerging** [AAT+20, HFV+12, IMH+11, IMH+12, WD19]. **emission** [VBVD22]. **emitting** [Rad18]. **Empirical** [VDB04, CBM13]. **Employing** [GVF+18, WPHS+25]. **emulation** [BAP+12, LST15]. **Enabled** [CD06, CD97, CBB+04, DD06, MWM+08, Ano22a, DSH+16, DCK+23, LDLD19, NBE+22]. **Enabling**

[ABC+24, AGR+03, BTRZ+19, DBD+23, DGB+14, FKT01, JMM+21, MBF+21, PB23, PBB+20, Ste09b, SKP+22, AAB+21b]. **Encoder** [BKRSR09]. **Encoding** [DLY+98]. **encryption** [KV19, Lap22]. **End** [BV11, GHM+10, LD07, NKiN+08, PA11, PKC23, Rao02, SC09]. **End-To-End** [GHM+10, Rao02, SC09, PKC23]. **Endangered** [BB02]. **Endmember** [HC08]. **endpoints** [DGB+14]. **energetic** [GSK+15]. **energies** [PUR94]. **Energy** [BEH+90, ECG+13, HTSK90, IHMM87, KLR+21, LTPK17, LWT+11, Mir90, SGFC09, YCHH90, ZOF90, ATD17, BDC21, BRGR11, BLOR18, BBMB19, CHT+19, EJD+19, JdSA+17, LWL+23, LRLG19, MBT+24, SKSG19, Kit90]. **energy-efficient** [BBMB19]. **Energy-optimal** [LTPK17]. **energy-saving** [SKSG19]. **Engine** [DCL+08, HBSP08, WZHG17, SS10]. **Engine-Driven** [DCL+08]. **Engineering** [Bro88, Dar00, DW97, Joh01, MMS88, Nas92, PK04, ADMP18, EHTW21, LSLD23, VMPW20, WH20, Mar88a]. **Enhance** [WVL+16]. **Enhanced** [BPK+07]. **Enhancement** [AAC+97, WT99]. **Enhancements** [BDG+95, ZKS+24]. **Enhancing** [FSC+11, HLW+16, KSM23, VLLGT+24, VIKM+22, Akb24]. **Ensemble** [BBR10, FR22, HLNW25, PB23, VSS+13]. **ensemble-based** [FR22]. **Entity** [BGF02]. **Entropy** [CBW95]. **entry** [CSGM17]. **Environment** [AAF+01, CCH+88, DD91, DL97, DLB07, GL97, MM90, dPIdA03, ABH+18, ASAK19, ARPY19, KKL+19, LSS93, WLVL+96]. **Environmental** [DLY+98, TMMR10, OLOF23]. **Environments** [Ano01a, CWHP99, CDH+97b, DD06, Dee10, DFH+96, DCL+08, Eyr06, FSS13, Gan88, HBSP08, Mat95, MA89, RIF01, THC+96, WvNM+06, ADMP18, CCBS11, HI12, HI13, IVG+20, IH15, NC18]. **Epidemic** [KDNE18]. **epidemiological** [BEW16]. **Epiphany** [VEMR17]. **epistasis** [WLG+18]. **epistatic** [PFGDM20]. **EQSIM** [MTW+22]. **Equation** [BFLL99, BEF+95, Fro91, IKY+10, Key09, ALE+20, EKF+19, KRR19]. **Equation-Based** [Key09]. **Equations** [Meu88, SBF90, SMW87, BDE+25, KS89, RMS+18, ZZG+14]. **Equilibration** [NKR90]. **Equilibrium** [JP93, NK89]. **equipped** [EM23]. **equivalent** [GKR+22]. **Era** [BM13, ME14, BTZ+25, WD21, BM12, Con88]. **Erratum** [KR95]. **error** [BSS15]. **Errors** [FCLG07, LFB+15, SLL+19, YZC+15]. **Estimates** [LS06, McN89]. **estimating** [BDC21]. **Estimation** [LR09, LRO10, BE17, LNSMMA15, SH93]. **ETA** [DD89]. **ETA-10P** [DD89]. **Ethylene** [DVC88]. **Euler** [ZB20]. **Eulerian** [INY+14]. **European** [lSD89, MHW15, PHB04]. **EUROPVM** [OL05]. **EUROPVM/MPI** [OL05]. **EuroPVMMPI** [KKDV03]. **EV7** [KHP+04]. **evacuation** [GDS17]. **Evaluate** [WGI90]. **Evaluating** [BBDR95, GFD05, LRG+16, NCA21, VC89, YFS+14, KdOCR+20, OLOF23]. **Evaluation** [ATN+00, ABF+08, Ano87b, BCK+89, BIC+10, BFNV07, BG02, BDG+00, CDQS04, CLP+99, KHP+04, NOM+19, RBL08, SWHP05, WOG95, YIN+11, AKP+18, BBG+14, BHL+24, HIT+14, JCK21, KKB+21, NMI+19]. **Evaluations** [PPK09]. **Event** [NRR97, BEW16, DAB+12]. **event-based** [BEW16]. **event-driven** [DAB+12]. **Events** [BG00, JDAD19]. **Eviction** [BH06]. **Evolution** [DAC+14, GAA+25, LBP18, WJS+90, CNW+23]. **evolution-AI-based** [CNW+23]. **evolutionary** [CdVL+18, JCK21, ZBH+23, HdV18]. **Exa** [MAF+22]. **ExaAM** [TBB+22]. **Exact** [ZK93]. **EXAGRAPH** [AAB+21b]. **ExaLearn** [AAB+21c]. **Example** [NBB+96, HPS+22]. **ExaSAT** [UCZ+15].

Exascale [AAB+21c, AF09, Cap09, CGG+09, DBA+09, DBM+11, ESD+22, GD09, GL09, HCC+22, Her09, Kal09b, KS09a, KS09b, LAV09, Luc09, Lus09a, MMN09, PPS09, SG09b, SC09, Ste09b, ABC+24, AAB+21b, AAB+24a, AAA+25, BDE+25, BBB+24, BCR+14, BTZ+25, BGI+25, KFM+21, MEK+19, MBT+24, MBF+21, MAB+24, MAF+22, MZA+24, PALG+25, SKE+23, SWA+14, UCZ+15, VFJ+15, WPHS+25, YB12, ZKS+24, CNR+24, EW22, Ger21, SKP+22]. **Excited** [WLC91]. **Excited-State** [WLC91]. **Excitement** [RAGW93]. **executed** [LSES20]. **Executing** [WG07]. **Execution** [MS09, AHB+16, DAB+12, DBD+23, ELEB21, JDD18, KILL13, RCAE+20, TKA+17]. **executions** [RV15]. **exhaustive** [PS12]. **Expand** [GCCC+03]. **expansion** [AMC+18]. **Expansions** [KMPJ08]. **Expect** [Pan92]. **Expectation** [Amd88]. **Experience** [HGD91, YHG+07]. **Experiences** [DD06, GKN+96, Reu92, RSCC+24, ZKRA14]. **Experiment** [HME90]. **Experimental** [BCC+06, EGMP93, JW06, KKCB98, KLJ87, PB19]. **Experimentation** [Ano87a]. **Experiments** [AAF+01, AK91, Gir02, PR95]. **Explicit** [WBG06, EAG+19, LNR+24, AGC+19]. **Exploiting** [Bri10, JPV23, QAL+23, SCR11, WWA+11, LFB+15]. **Exploration** [KPM+96, BBMB19]. **Explore** [JLL04]. **Exploring** [CCO+19, CBD+17, HAF+96, IMS16]. **explosions** [HCC+22]. **Expression** [RS03]. **Expressions** [BBDR95]. **expressive** [CRS+19]. **Extended** [Ano02b]. **Extending** [GRC08, Pap11, LRG+16]. **Extensible** [CJK+05, KHS+19]. **Extension** [SVN09, AHB+16]. **extensions** [ZRG+24]. **Extraction** [CBL10, HC08]. **Extreme** [Her09, Key09, KC92a, KC92b, MPS15, ZKRA14, AAA+22, AMB+18, BEK+18, DCM+17, FAB+21, HRW19, INS+20, KDNE18, PBE+19, WD21]. **Extreme-scale** [ZKRA14, AMB+18, BEK+18, DCM+17, FAB+21, INS+20]. **extremely** [Ade21].

face [CdVL+18]. **facilities** [ZKS+24]. **Facility** [Ano87a, Don89]. **FACOM** [IHMM87]. **Factor** [DH96]. **Factorization** [DD89, DD91, IGDQO19, Jea13, LM23, MY24, YIYD19]. **factorizations** [DEKV92]. **Failure** [GCSK13, KS05, Ano19, BBH+13, BBG+18, KDNE18]. **failures** [SWA+14, TNLP13]. **far** [KKB+21]. **farm** [KBY+19]. **Farming** [CKPD99, MBHF15]. **Fast** [BGM15, BEW16, BMT89, CvG11, DIB00, NDMR20, PS12, PFGDM20, SWW94, TQOA23, IYK16, KKB+21, KDH18, RTRZ22, 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, AG18, BBA+21, LRG+16, MSHPV18, MTW+22, SKZ+18, Sta19, SMZ+18, YZC+15]. **fault-to-structure** [MTW+22]. **fault-tolerance** [SMZ+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** [Har11]. **Feedback** [CGB+94]. **Feedback-Scaling** [CGB+94]. **Feel** [ZWS21]. **Feel-the-Way** [ZWS21]. **FEM** [MK24, RMV+19]. **Fermi** [NTD10]. **Fermions** [ZK93]. **Fernbach** [Mar91]. **FETI** [GCD97, RMV+19]. **FFT** [Bai88, GGS01, KMPJ08, Wad99]. **FFT-Based** [GGS01]. **Fidelity** [SKP+22, TBB+22]. **Field** [HC08, HSLK11, KKB+21, PUR94, VSHN14]. **fight** [ABL+22]. **File** [BIC+10, GCCC+03,

LRT07, kLCCW07, HLW+16]. **Film** [MD99]. **films** [GSK+15]. **filter** [LGDH16]. **filtering** [LMT+12]. **Finalists** [dS21]. **Financial** [BE07, HZ91]. **Finding** [dRADS+18b, FCLG07, PB23]. **Fine** [ACM88, BBG+10, LH18, WvNM+06, HTD+14, KSF22]. **Fine-Grain** [ACM88]. **Fine-Grained** [BBG+10, WvNM+06, LH18, HTD+14, KSF22]. **Finite** [AJL+97, BBA87, CC95, CBV97, EGG05, GCD97, KM95, MMD98, MS02, MS05, PH19, PLS05, THC+96, THL88, de 89, AAB+24b, AFL+18, BSW+14, DWT+19, EKF+19, KFM+21, KSM23, LH19, MSP+24, PKC23, RTRZ22, SMK+20, ŚCKW19, VSW+22, WKLW21]. **Finite-Element** [MS02, BSW+14, KSM23]. **Finite-Volume** [MS05, LH19]. **First** [DQFW90, GKN+96, TMWS91, HIT+14, MMDA19]. **first-principles** [HIT+14]. **fission** [BHZ+23]. **Fitness** [JCK21]. **fixed** [BSK14]. **Flames** [EDS95, SG91]. **FLASH** [DAC+14, JKD+11]. **flexibility** [BHC+25]. **Flexible** [GMLP08, CVJ12, DGB+14]. **Flink** [KWEF18]. **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, KDH18, LNR+24, LSS93, WDW+12, ZB20]. **Flowfield** [MKG90]. **Flows** [CB95, GMWG10, MYC92, PGK+24, dFRD+23]. **Fluid** [Cha88, DFMD94, Gen88, HL10, JL89, KT99, LWL05, PGTS10, RBMF87, SWW94, SS89, SK90, YW93, KC18, LSS93, PDDI22, PGK+24]. **Fluid-Structure** [KT99, KC18]. **fluids** [HBKR21]. **Fluorinated** [DFC90]. **fly** [GSA+19]. **Fock** [MMDA19, CLM+16, KKCB98, TMW+99]. **focused** [JRT16]. **Footprint** [JMC05, LM23]. **force** [PUR94]. **Forecasting** [MHW15]. **Forecasts** [MHW15]. **forest** [PB23]. **forests** [PNFC16]. **format** [GG14, GGO16]. **Forming** [CM97]. **Fortran** [KR95, DL97, KTP+24, KMJ+23, KR94]. **Fortran90** [LJO05]. **Forum** [Don02a, Don02b]. **Forward** [AK93, Luc09, THL88, HRW19]. **Foundation** [Web91, Blo87]. **Four** [Tho90]. **Four-Band** [Tho90]. **Fourier** [KNP+87, LDW+12, MJ04, SSCF19]. **FP32** [OY22]. **FPGA** [HC08, MHS11, PC08a, RHK21, RGB+18]. **FPS** [LT88]. **Fracture** [BG00, LPB+16]. **Framework** [CAK+07, DGJ09, IYV04, PGTS10, SSB+05, SB04, SKP+22, TMMR10, vLRA+03, FKA+17, FR22, GEKO19, GDM+23, IGA24, JBOT19, MBC+18, MTW+22, MS19, PPC+16, PB19, SE12, SMZ+18, TDG+19, YWL+14, CTD+05]. **frameworks** [LNR+24]. **Frankenstein** [Wit92]. **Free** [LWL+23, MT89, KSM23, LBB17, PHF21, SMK+20, VIKM+22, VSW+22]. **Free-Lagrange** [MT89]. **freedom** [TAM+16]. **Frequency** [TC10, CSGM17, SKSG19]. **front** [FIMU19]. **Frontwidth** [BMWD87]. **FSAI** [IJB22]. **FTS** [BE18]. **fuel** [BHZ+23]. **Fueling** [Her91]. **Fugaku** [ABL+22, HYY+22]. **Fujitsu** [Ish91]. **Full** [AEPR92, JRT16, LK01, Ano22a, NBE+22, RAB+15, THC+11]. **full-physics** [Ano22a, NBE+22]. **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, BGB+18, DSD+91, FWSW02, FP02, YK04, SKP+22, WET+19]. **Future** [BSBF89, HBSM03, Wil87, BAP+12, CNW+23, DPA+18]. **FV** [LMT+12]. **fv3** [SDF+17]. **FVCOM** [Cow08]. **FX** [DD91]. **FX/80** [DD91].

G [MCS+06]. **G2** [Cot04]. **Galaxies** [Her91, NBB+96]. **Galerkin** [AWWG19, MSP+24]. **Games** [EGMP93]. **GANESH** [BPK+07]. **Gap** [SS99]. **Gas** [CH94, LRBS89, MKG90, BHZ+23]. **Gases** [WBMY90]. **GASPI** [SKZ+18, SIC+19]. **Gate** [HC08]. **Gather** [TRS+10]. **Gauge** [Mor89a]. **Gaussian** [LSLD23]. **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** [IGA24, PLS05, VC89, BE17, CRS+19, MMHL11, WWC+24]. **general-purpose** [BE17]. **generalized** [HTD+14, HPA+22, NS21, GLGLB+11]. **generated** [EKF+19]. **Generation** [DE03, HT04a, KMPJ08, BAP+12, HBKR21, LDLD19, MFB+19, MMDA19, TRS13, VRB+19, WD24, ZKRA14]. **generative** [JMM+21]. **Generator** [PMS+04, DL09]. **Generic** [CAK+07, HLC+19]. **Genetic** [RS03, NMAE13]. **Genome** [ZBH+23, GDKWS15]. **Genome-scale** [ZBH+23]. **genome-wide** [GDKWS15]. **genomic** [MBC+18]. **GenSLMs** [ZBH+23]. **Geodesy** [BGG05]. **geographically** [CvG11]. **geophysical** [CMN12]. **geophysics** [MTW+22, SCD+19]. **GFLOP** [SBF90]. **Ginkgo** [CNR+24]. **Glass** [YSN90]. **Global** [ATN+00, Ald89, CZR+11, DBA+09, GS05, MHW15, SBG10, Tho90, WBMY90, DFT+15, TLdS22, TAM+16, WDH+15, NPT+06]. **Global-Address-Space** [SBG10]. **Global-aware** [CZR+11]. **Globalized** [GKMT00]. **Globally** [SH93]. **Globus** [FK97, ZKS+24]. **GloVE** [dPIdA03]. **Glow** [YW93]. **Gluons** [BOD+91, BEH+90]. **GM** [ARPY19]. **GMRES** [AAG+23]. **Going** [Her09]. **good** [NDMR20]. **Goodput** [BL99]. **Gordon** [BBD+17, dS21]. **gossip** [CGW19]. **gossip-inspired** [CGW19]. **GPFS** [BIC+10]. **GPGPU** [SDF+17]. **GPGPUs** [APD+15, KDH11]. **GPU** [ABC+24, AWWG19, Ano22a, ATL+15, ARPY19, BGM15, BJWS20, CSGM17, CS14, DAD+22, EM23, EEL15, GHL15, GDKWS15, GGO16, HTD+14, IJB22, JC12, JKBW18, JCK21, KTWL18, KKL+19, KNPS21, LPB+16, LM23, MC21, MPD+12, MJGL13, MGFP20, NBE+22, OKTR11, OF17, PGK+24, PKC23, PS12, PNFC16, PFGDM20, RV15, RPdB+19, SZC12, SPTT08, SE12, SKS+13, SDI+19, SK20, SSCF19, TM23, VSW+22, VMPW20, WDW+12, YLL+14, ZZG+14]. **GPU-accelerated** [AWWG19, CSGM17, IJB22, KNPS21]. **GPU-based** [ATL+15, JKBW18, JCK21, MJGL13, PGK+24, SDI+19]. **GPU-enabled** [Ano22a, NBE+22]. **GPU-equipped** [EM23]. **GPUDirect** [OGM+16]. **GPUs** [Ano24, ATD17, AKP+18, BLU+22, DEQO21, EHTW21, FT19, HDL+15, HBKR21, HPW+16, KMJ+23, MY24, NCA21, NS21, PF16, SFLC18, TKA+17, WWC+24]. **Gradient** [AH93, CSV91, MG87, DHL16, IVG+20, IGA24, KSM23, KMM16, PSV+16, PF16]. **Gradient-like** [CSV91]. **GrADS** [BCC+01]. **Grain** [ACM88]. **Grained** [BBG+10, BGB+96, DZRS99, WvNM+06, HTD+14, KSF22, LH18]. **Grand** [BEH+90, CBB+96, DSD+91, Kit90]. **granularity** [LQJG16, SKSG19]. **GRAPE** [CKE08]. **Graph** [AAB+21b, BBT23, CDT05, JRP+23, Akb24, CSC19, GLZS14]. **graphic** [LQJG16, PH19, YZZW21]. **Graphical** [DMQS12, KDO16]. **Graphics** [CLF87, GLGLB+11, LP10, MA15, NTD10, RBMF87, Sal87, AJ24, AAG+23, BE17, CMMW23, CLG13, CGBL25, GHHS15, Mon12, RDG12, RWM17, SO23, TQOA23, VBVD22, ZCZ+13]. **Graphs** [LK01]. **Gravitational** [SWW94]. **Gravity** [Ham91]. **Great** [BAM+16]. **Green** [ODD07]. **Greenbook'** [HBSM03]. **Greenhouse** [WBMY90]. **Grid** [CKPD99, Lee03, SBWS99, ASHH16,

BCYS11, HLZ+20, LNR+24, MCR+17, MYG23, PPC+16, PS12, AEG+03, AAF+01, AGR+03, BCCL09, BCM+03, BCC+01, BPK+07, BSCC03, BCC+06, CD06, CBSB01, CBB+04, CBL06, CCBS11, CY08, DCL+08, FKT01, GHM+10, GRC08, GHZ10, HBSP08, HT04a, HLP+03, Hua03, HWP03, KHK+09, LM03, MWM+08, Mat03, MCS+06, PPK09, PBD+01, PHB04, QH08, RIF01, RTRG+07, SWG+03, Wal03, WBFB04, WPBB01, WHL03, WvNM+06, YBA+03].
Grid-Based [GRC08, QH08, LM03].
Grid-Enabled [CBB+04, MWM+08].
Grid-Ireland [MCS+06]. **Grid'5000** [BCC+06]. **Gridded** [ZM07]. **GridLab** [AGR+03]. **GridPACK**^{TM} [PPC+16].
GridRPC [CJ06]. **Grids** [DT99, DT11, Joh01, Ma00, VR00, LAZ+24, MMHL11, MGB12, MYG23, Sta19, BKS+07, BBH+06, Dee10, Fra05, GMLP08, IKY+10, MS09, SG07, SW04, TCW06, vLRA+03].
GridSolve [YSS+06]. **Groundwater** [ABF+99, MMD98]. **Group** [Bus87, BCR+14]. **Growth** [BCZM07, Blo87, Cla91]. **Guest** [DT18, DT19, DT23, WD21, BM13, Cec20, DT17, WD18, WD19, WD24, dA03].
guidance [SDJ17]. **Guided** [FBBC03, BEK+18]. **GWAS** [WLG+18].
Gyrofluid [KPM+96]. **gyrokinetic** [IMW+13, INY+14, WET+19].

Hadoop [CdVL+18]. **Hadron** [GKH+91, Liu90]. **Haidar** [Ano24]. **HAMR** [WZHG17]. **Harbor** [BBC+00]. **hard** [RMS+18]. **Hardware** [BH06, KS09b, Spr06, Ano24, BLU+22, HDL+15, MCU+13, MFOAGE18, RTRZ22].
hardware-accelerated [BLU+22]. **Hari** [NS21]. **Harmonics** [KMPJ08]. **Harnessing** [HLH+19]. **Hartree** [CLM+16, KKCB98, MMDA19, TMW+99].
HDF5 [BTZ+25]. **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 [TCW06].
Heterogeneous [BM13, BLRR01, BMR06, BG09, CHZ02, CLBS17, Dee10, EGG05, KT99, KS05, LR07, LR09, LRO10, ME14, NBB+96, RAGW93, RRV06, TM23, VLO+08, dRADS+18a, BHZ+23, BJWS20, CMS+11, CGST19, EDB19, GBB18, HLNW25, HGWN14, IMW+13, INS+20, LST15, LDW+12, MFP+17, NC18, OLOF23, PB23, SB19, UZM+14, ZSL+23, BM12].
HeteroMPI [VLO+08]. **Heuristic** [SG07].
Heuristics [CJ06]. **HHT** [LSES20]. **Hi** [TDM+17]. **Hi-C** [TDM+17]. **hierarchic** [EDB19]. **Hierarchical** [DD06, GJMS88, HJ96, HWP03, IGDQO19, PBAL09, SG09a, WT99, DSH+16, GBB18, HPA+22, LSLR+20, MJD16, Wal18, ZBMK11].
hierarchies [BGI+25]. **Hierarchy** [HL10, YK04]. **High** [AAB+24b, Ano87d, Ano87f, Ano94a, Ano94c, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, Ano98b, Ano98a, Ano99, Ano00, Ano01b, Ano24, ARR99, Aus92, Bai88, BV11, BGI+99, BCC+01, BAA+06, BBT23, BEH+90, BEF+95, BRT+92, CWHP99, CC95, CDP+94, CSY10, CB95, CJK+05, DTDP14, DFS+05, DGJ09, DBA+09, DHL16, lSD89, EKD+12, FGC+05, FGJ+04, GBB18, GHM+10, GHL15, GVR+21, GMWG10, GSK+15, HLRK24, HSLK11, IS96, IKY+10, KDH11, KBA00, Kep04a, KWB06, KFM+21, Kuc04, KMM16, LST15, LPB+16, LD07, MAB07, MSPSI15, NKiN+08, NFK98, NTKP06, PPK+04, PPK09, PA11, Poz97, Pra01, QWIC02, Sab91, STS17, SKB01, Ste01, Ste04, SKP+22, SKC10, TR17, THL88, TMW+99, THDC09, VRB+19, Wad99, WLC91, WLG+18, WOS08, YSP+05, AAG+23, AFGQO19,

AGHR19, BAM+16, BLU+22, BLC17]. **high** [BBA+21, BAP+12, CSS24, CGW19, Cec20, CZR+11, CNW+23, DVW+12, DAD+22, DAC+14, ECG+13, EB23, Fem90, FMR+20, GR17, GSND20, Har11, HBKR21, IYK16, IFA15, JRT16, KSM23, LAZ+24, LDLD19, LH19, MDW+23, MCU+13, MK24, OGM+16, PPC+16, PSV+16, PKC23, PF16, ŚCKW19, TLdS22, TNLP13, Udd17, VSW+22, WDH+15, WD19, WD24, Mar87a]. **High-Cost** [PPK09]. **high-density** [HBKR21]. **High-End** [BV11, NKiN+08, PA11]. **high-intensity** [JRT16]. **High-Level** [BCC+01, GBB18, Udd17]. **High-Order** [CC95, KFM+21, KSM23, LH19, MK24, OGM+16, PKC23, ŚCKW19, VSW+22]. **High-Performance** [Bai88, BAA+06, BBT23, BRT+92, CSY10, DGJ09, DBA+09, lSD89, HSLK11, IKY+10, KWB06, PPK+04, Sab91, TMW+99, THDC09, AAB+24b, DTDP14, DHL16, EKD+12, GHL15, GMWG10, GSK+15, KDH11, KMM16, LST15, LPB+16, SKC10, TR17, VRB+19, WLG+18, AAG+23, AFGQO19, BBA+21, BAP+12, CSS24, CGW19, Cec20, CZR+11, DAC+14, ECG+13, EB23, Fem90, FMR+20, GR17, GSND20, Har11, IYK16, IFA15, LAZ+24, MDW+23, PPC+16, PSV+16, PF16, TNLP13]. **high-precision** [DAD+22]. **High-Pressure** [WLC91]. **High-Resolution** [DFS+05]. **high-risk** [CNW+23]. **High-Speed** [Ano87d, BAM+16, Mar87a]. **High-Throughput** [GHM+10, GVR+21, AGHR19]. **High-Wave** [BEF+95]. **Higher** [Mah90]. **Highly** [Ade21, BG22, BCC+06, HBKR21, HLK+23, Sim90, KKB+21, PS12, WKLW21]. **HIP** [KNPS21, TM23]. **HipBone** [CMMW23]. **History** [MT89, ZC92, Bra91]. **Hitachi** [WOG95]. **HLA** [RTRG+07]. **HMapper** [GPO+20]. **Hoc** [IBC+10, TNBG07, AAA+25, BG02, CHZ02]. **hole** [HLZ+20]. **HOMME** [CAE+13, DDKK19]. **homogeneous** [IMW+13]. **Homotopy** [DZRS99]. **HONPAS** [QSX+20]. **Hop** [TNBG07]. **Hoshen** [CBV97]. **Hosted** [HBSM03]. **Hough** [GLGLB+11]. **hp** [KBY+19]. **hp-adaptive** [KBY+19]. **HPC** [Ano19, dS21, AGK+23, ABG+19, BBMB19, BBG+18, CRS+19, CYZ+20, CCBL18, GCSK13, GGMJF+20, Kep04b, KV19, KHK+09, Lap22, MDH+18, NMI+19, PMP+20, SSQ08, SGFC09, TNCC21, ZWS21]. **HPC-Based** [dS21]. **HPCC** [CBB+96]. **HPCG** [LYL+16]. **HPCToolkit** [AAB+24a]. **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, BHC+25, 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, TM23, THDS19, WSD+14]. **hybrid-core** [BBG+14]. **Hybridisation** [EMP+18]. **hydrodynamic** [HLH+19, SZC12]. **Hydrodynamics** [LRBS89, PGTS10, GEKO19, HF24, VSW+22]. **hydrostatic** [AWWG19]. **hydroxymethylation** [GPO+20]. **Hyperbolic** [FG97, CHT+19, LH19, RV15]. **Hypercube** [Din91, KLJ87]. **Hypercubes** [LK01]. **HYPERDOCK** [ILCLG20]. **Hypergraph** [Akb24]. **Hypergraph-based** [Akb24]. **hyperheuristics** [ILCLG20]. **Hyperspectral** [DF08, HC08, PC08a, SPTT08, VLO+08].

I-WAY [DFP+96, GKN+96, NBB+96]. **I/O** [BCP+20, BTZ+25, DLY+98, DEL+12,

IBC+10, KKCB98, KES+17, LPJ98, MMD98, MS95, NFK98, OWO98, PH91, SW01, SR98, TLG98, TD08, TNCC21, WWA+11]. **IA** [PSV+16]. **IA-based** [PSV+16]. **IBM** [DEKV92, DD89, DD91, Gaf88, GNB11, KMH+14, MAB+13]. **Ice** [ZOF90, WCS+23]. **ice-sheet** [WCS+23]. **IceT** [GS99]. **icosahedral** [MYG23]. **idealized** [LPB+16]. **IDR** [AKP+18]. **IEH** [LK01]. **IESP** [GD09, Moh09]. **II** [Don02b, JP93, TDM+17]. **IJHPCA** [KM20, Mas19]. **illuminate** [CDG+21]. **ILU** [Ma00]. **Image** [AAC+97, BCJ01, CSY10, DIB00, DF08, PTGB02, Sal87, SPTT08, BGM15, TKA+17, THH+13, VBVD22, ZCZ+13]. **Imagery** [HC08, PC08a]. **Images** [VLO+08, RPdB+19, SKS+13]. **Imaging** [CBB+96, Wri12, JKBW18, SFLC18]. **imbalance** [CLVYC+24]. **IMEX** [LNR+24]. **immersed** [KSF22]. **Immersive** [THC+96]. **immiscible** [HBKR21]. **Impact** [Ald89, BRU05, Chu99, GJMS88, LC90, NMAE13, BHK+88]. **Impacts** [JPV23]. **Implementation** [AEPR92, BBS99, BCZM07, BBA87, BIC+10, BG00, BRM03, CL95, CLF87, Cho01, CTD+05, EKF+19, FD04, HJ96, IBC+10, INS+20, KLJ87, LMT+12, LT90, MC90, MS02, MG87, MS05, NMI+19, ODD07, SYF96, Tis97, ZZG+14, dRADS+18a, BG11, GDS17, HF24, KTWL18, LNSMMA15, MV20, MHW15, NMAE13, OKTR11, OGM+16, VMPW20, YZZW21]. **Implementations** [Ano01a, RR96, BDFVP15, ESD+22, KWEF18, KSM23, LWT+11, MK24]. **implemented** [BBDH14, PH19]. **Implementing** [CDT05, KV19, LRT07, YFH+96]. **Implications** [RES87]. **Implicit** [GKMT00, MS02, NS21, EAG+19, HLZ+20, KTP+24, KC18, AGC+19]. **Importance** [BCG+10, SC09]. **Important** [TC10, FAB+21]. **improve** [JdSA+17, LFB+15]. **Improved** [Ano87b, CMHB15, FSN08, NTD10, DMSMG18, INY+14]. **Improvement** [SVN09, KMM16]. **Improving** [ARPY19, BL99, BJK07, CGGC+16, DAB+12, ILCLG20, JMC05, KL13, MJD16, MW12, YK04, CSC24]. **in-depth** [JDAD19]. **in-memory** [WZHG17]. **In-Network** [OMDS23]. **in-situ** [MFB+19]. **Incomplete** [IIJ93, Kal09b, MC21]. **Increased** [DTL+21, WBMY90]. **Increasing** [CLVYC+24, PHC+10, WW92]. **Independent** [BRU05, BDE+25, CCRV20]. **Index** [Ano96b, Ano97d, Ano98b, Ano99, Ano00, Ano01b, Ano02n, Ano02l, Ano02m, HC08, BE07]. **INDIANA** [OMDS23]. **induction** [JCK21]. **Industrial** [DGP+97, GMWG10, LDGR03, JBOT19, VMPW20]. **inefficiency** [HGMW12]. **Inequality** [NK89]. **Inertial** [BGB+18]. **infection** [ABL+22]. **Infer** [RS03]. **inference** [KPST18]. **InfiniBand** [NOM+19, OF17, SWHP05]. **Influence** [CK01, Ede93]. **Information** [Ano91b, Ano91a, Ano92g, Ano96c, Ano96a, Ano97b, Ano97c, Ano98a, BH06, CHZ02, FWSW02, FP02, IMS16]. **Information-Driven** [CHZ02]. **Information-Theoretic** [FWSW02]. **Infrastructure** [FK97, HLP+03, OMDS23, Wal03, AAA+25]. **Infrastructures** [HdV18]. **inherently** [MY24]. **inhibitors** [BGB+22]. **Initial** [WLVL+96]. **Initiated** [SSB+05]. **Initio** [ASW91, HYY+22, LDLD19, SKE+23]. **injection** [CIWI17, WSD+14]. **Innovative** [MPS15]. **input** [Lap22, LCZ+15, WVL+16]. **input/output** [LCZ+15, WVL+16]. **inspired** [CGW19]. **Instance** [LJC+10]. **Instance-Intensive** [LJC+10]. **instances** [TR17]. **Institute** [Duk91, EM89, IHMM87]. **Instruction** [HRM89]. **Instrument** [CBB+04]. **Instrumentation** [TM99]. **Int** [Ano24]. **Integer** [Gro03, DAD+22, OOY24].

Integrate [BFLL99]. **Integrated** [CFK+94, GLZS14, MHW15, WBG06, FT19, PLJD24]. **Integrating** [TGS+22, WTL+25]. **Integration** [ACD07, QWIC02, BTRZ+19]. **Integrative** [KHK+09]. **integrators** [BDE+25]. **Intel** [GLZS14, HGD91, HLS+17, KLJ87, KR94, KR95, LSES20, SB19]. **Intelligence** [Ano87d, WPHS+25]. **Intelligent** [TGS+22]. **Intel(R)** [MMDA19]. **intensity** [JRT16, LH19]. **Intensive** [GMLP08, KUE+00, LJC+10, Mah90, ACF+11, FKA+17]. **Inter** [FWZ91]. **Inter-Semiconductor** [FWZ91]. **Interacting** [KWB06]. **Interaction** [AEPR92, Liu90, HYY+22, KC18]. **Interactions** [TMWS91, PFGDM20]. **Interactive** [CWHP99, CLF87, KPM+96, LSS93, RBMF87, RTRG+07, SS89, THC+96, VR00, WBFB04]. **Interchange** [YK04]. **interconnect** [SDI+19]. **interest** [CdVL+18]. **Interface** [Ano93d, Ano94b, BDG+00, KFM+10, LWOB97, MPI98, SLG95, ESW+12, IMS16, KTP+24, ZKRA14, BC14, BBH+06, BRU05, Cot04, GL04, IBC+10, KKDV03, KKD05, LK10, SWHP05, TGT05, ZRG+24]. **interfaces** [BG22]. **Interference** [KCC+06, TNCC21, CSC24]. **Interference-Aware** [KCC+06]. **Interleaving** [KNP+87]. **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]. **Internet** [EDSV06, Rao02]. **Interoperability** [Kal09b, LDB+06, SIC+19, EKD+12]. **Interpolation** [JLO05, SBBS06]. **Interpretation** [Fei99]. **Intrepid** [BWB+10]. **Introduction** [Ano02o, BM13, BL18, BQOS21, DT99, DT13, Hau94, KM20, Mas19, Nag93, OV13, Par23, SB18, SDS12, Ste01, Tur95, dS21, Ano22b]. **inundation** [HPS+22]. **Inverse** [Cho01]. **inverses** [MGFP20]. **inversion** [BGM15, HLRK24]. **Investigating** [CW05, PHF21]. **Investigation** [CK01]. **Investigations** [Mav02]. **investing** [DTL19]. **Invitation** [Mar87c]. **Invocation** [DP05]. **Involving** [MBF+11]. **IO** [BIC+10, JPV23, LRT07, WHGT22]. **IO-aware** [JPV23, WHGT22]. **Ion** [Reu92]. **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, MPI98, Mas19, ME14, Nag93, OV13, PA11, Yel04, dS21, Ano22b, BH17, Cec20, DT19, DT23, HdV18, MFB+19, Par23, WH20, WD19, WD21, WD24, SDS12]. **issued** [CSGM17]. **Issues** [AD93, BMWD87, CLSS09, CEL+97, Dem90, EGMP93, Men00, GCSK13]. **Italy** [OL05]. **Iterated** [RR96]. **iterations** [MC21]. **Iterative** [BDL+07, CSV91, CMN12, CM97, FFR+10, MC90, MCW+00, PHC+10, SC04b, SCFK04, AKP+18, CSGM17, CvG11]. **Iteratively** [ML20].

J [Ano24]. **Jack** [Ano24]. **Jacobi** [BBDH14]. **Jaguar** [BWB+10]. **Jam** [MCG04]. **Japan** [EM89, IHMM87]. **Java** [BJK07]. **Jini** [Hua03]. **Jini-Based** [Hua03]. **JISGA** [Hua03]. **Job** [JPV23, GJMV18]. **Job-Scheduling** [JPV23]. **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]. **Julia** [VBVD22]. **Jumpshot** [ZLGS99].

Junctions [IKY+10]. **Jupiter** [Tho90]. **Just** [BPBL11]. **Just-in-Time** [BPBL11].

K-computer [INY+14]. **Kepler** [HPW+16]. **Kernel** [TM99, ALL13, BLU+22, Jon12, LNSMMA15]. **Kernels** [BELF07, IYV04, EHTW21, HCCG20, MAB+13, WKLW19]. **key** [KV19, KES+17]. **keys** [BSK14]. **kinetic** [EM23]. **Kinetics** [ARR99]. **KNC** [HCCG20]. **Knowledge** [AEG+03, Cap09, vLRA+03, ECG+13, KT94]. **Known** [Ano92h]. **Kokkos** [DWT+19, VLLGT+24]. **Kopelman** [CBV97]. **Krylov** [GKMT00, ATL+15, AKP+18, CMN12, IGA24, MSKM21]. **Kutta** [KR11, RR96, RDPK22].

L [dSSB+08]. **LA-MPI** [YSP+05]. **Laboratory** [ABF+08, Bus87, GVR+21, BBB+91b, Don89, DGH+93, HGD91]. **LABS** [RRJ+20]. **Lagrange** [MT89, ZB20]. **Lagrangian** [EM23, KRR19]. **LAM** [SSB+05]. **LAM/MPI** [SSB+05]. **Laminar** [EDS95, SG91]. **Land** [HVKW05]. **landscape** [CYZ+20, GSND20]. **Language** [BGB+22, CCZ07, LD07, Pan92, Sha88, CH13, EKD+12, NMI+19, PHF21, ZBH+23]. **Languages** [Kal09b, KKS04, YHG+07, JO92]. **LAPACK** [ABC+24]. **Large** [AS00, AK91, AGL+87, BAM+16, BGG05, BDP01, BCCL09, Ber92, BWB+10, BBA87, BCC+06, CWHP99, CK01, Ede93, Ewi88, Fra05, FBW+87, GDKWS15, GMWG10, Gun00, HYY+22, HSLK11, Joh01, KMJ+23, 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, WT99, YRA+02, ZRÇ+06, ABH+18, Ade21, BLOR18, BCYS11, CvG11, DCD+13, EM23, EEL15, FR22, FU12, HIT+14, JBOT19, LWL+23, MBHF15, MJD16, OLOF23, PDDI22, RDG12, STP+13, SIC+19, VOL+14, ZBMK11, ZSL+23]. **Large-Scale** [AS00, AK91, BDP01, Ber92, BBA87, CWHP99, Ewi88, Fra05, Gun00, HSLK11, Joh01, KMJ+23, KUE+00, LC06, Mor89b, NKR90, SD87, YRA+02, ZRÇ+06, BAM+16, GDKWS15, GMWG10, HYY+22, LM03, LDW+12, MRD+15, BLOR18, EM23, EEL15, FR22, JBOT19, LWL+23, MBHF15, MJD16, OLOF23, PDDI22, STP+13, SIC+19, VOL+14]. **Largest** [Ano92h]. **Largest-Known** [Ano92h]. **Latent** [WWA+11]. **Lattice** [BGK+90, Din91, JC12, LRBS89, Mor89a, MSK92, CGST19, HBKR21, Liu90, Mon12, OKTR11, RWM17, WKLW21, YIYD19, YZZW21, SBBS06]. **Law** [HE01]. **laws** [Hea15, LH19]. **Lax** [YFS+14]. **layer** [LAZ+24]. **layout** [HLW+16, SZ11]. **layouts** [RWM17]. **Lazy** [BPBL11]. **LBLAS** [KJH96, JO92]. **Leading** [OCC+08, SSQ08]. **Learned** [PK04, IKMS+19]. **Learning** [AH93, AAB+21c, AK93, CBM13, DMJS19, DEQO21, EEL15, EJD+19, JMM+21, KFJ20, KWEF18, LSLD23, MP18, NSI20, OWC+21]. **Leasing** [EW06]. **Legacy** [Ano02h]. **legends** [MDW+23]. **Legion** [GNTLH97]. **Length** [DLY+98, BSK14]. **lesions** [SKS+13]. **Lessons** [PK04]. **Level** [BCC+01, BBC+00, YK04, DEL+12, GBB18, IK18, LRG+16, Udd17, DD89, DD91]. **leverages** [OLOF23]. **Leveraging** [CH13, LYL+16, SFLC18]. **libEnsemble** [HLNW25, WTL+25]. **Liber8Tion** [Pla09]. **Libraries** [DMT01, GFD05, LDB+06, PBD+01, PMS+04, HMA+24, PH19]. **Library** [BK07, CE00, MA15, BLC17, BBB+24, CNR+24, DWT+19, DEL+12, GAA+25, JC12, LNK22, Poz97]. **ligand** [HLK+23]. **Ligature** [KBA00]. **light** [HYY+22]. **light-matter** [HYY+22]. **Lightspeed** [PPK+04]. **lightweight** [GS18, SSU+12]. **like** [CSV91]. **limitations** [CGW19, SPHW18]. **Limited** [KR11, TWK87]. **Limits** [Amd88, THH+13].

Linda [Mat95, SSNM92]. **Line** [LWOB97, Ade21]. **Linear** [AGL+87, BS88, BDL+07, CDQS04, CL95, CDP+94, Don02a, Don02b, Ede93, GJMS88, JO92, KVY+90, KJH96, MC90, Ma00, MA15, Man97, NZ93, PB19, Poz97, WT99, de 89, AAB+21a, ATD17, CvG11, FTB13, AAT+20, GAA+25, Kum89, LRLG19, MY24, MBvdG13, ML20, RDG12, SPHW18]. **Link** [TLG98, PS87]. **LINPACK** [DL09]. **Linux** [ALL13, Ano01a, CK01, GSHL03, Jon12, LWL05, SG09a, YIN+11]. **Liquid** [DQFW90]. **Livermore** [WGI90]. **Living** [GHZ10]. **Load** [BG09, BFNV07, GS05, GLGLB+11, MYCR06, CLVYC+24, ZBMK11]. **Load-Balanced** [BFNV07]. **Loads** [DLG06]. **Local** [BRT+92, MYC92, MTW+22, PNFC16, RRJ+20, JO92, KJH96]. **Local-Creutz** [BRT+92]. **Locality** [AKW19, BPBL11, PHC+10, Akb24, KSM23]. **locality-enhancing** [Akb24]. **Localization** [CYT+02, MJGL13, VIKM+22]. **Localized** [WCE95]. **Logical** [Chu99, SR98]. **Long** [Gro03, HRM89]. **longest** [Ozs16]. **look** [BBD+17]. **Looking** [AK93, MZA+24]. **Loop** [IS96, YK04, RCAE+20, WKLW19]. **Loops** [WGI90, RRJ+20]. **Loss** [ZOF90]. **Lossless** [Arn07]. **lossy** [CCO+19, CDL+19, TDG+19, UBK+23]. **Low** [DF08, KR11, CGBL25, HF24, MK24, PKC23]. **Low-Complexity** [DF08]. **low-order-precision** [HF24]. **low-order-refined** [PKC23]. **low-overhead** [MK24]. **Low-Storage** [KR11]. **lower** [RTRZ22]. **Lu** [Tis97]. **Luszczek** [Ano24].

m [MAB+24]. **M2L** [KKB+21]. **Machine** [AAB+21c, BR03, CC95, CSV91, CBV97, EEL15, IKMS+19, KFJ20, MC90, SS89, Wit92, ZK93, BAP+12, CBM13, DMJS19, DEQO21, EJD+19, KWEF18, MP18, NSI20, SK20, SSU+12, BJ92, GKH+91, HZ91, KKDV03, KKD05, LK10, LPG88, Don87]. **machine-learning-based** [CBM13]. **machinery** [TGS+22]. **Machines** [AH93, BBDR95, CDT05, CB95, HC10, HGWN14, Jea13, KS89]. **macromolecular** [DF18, MCR+17]. **made** [ASHH16]. **Madre** [SS10]. **MAGMA** [ABC+24, AAT+20, NTD10]. **magnetic** [JKBW18]. **Magnetically** [ACG+90]. **Magnetohydrodynamic** [ACG+90, FU12]. **mainstream** [BHK+13]. **Major** [GL09]. **makes** [SDI+19]. **Making** [BPBL11, Dee10, GWKN08, MAB+24, BHK+13, KT94]. **MALI** [WCS+23]. **Malleability** [CSS24, CLVYC+24, MÁAC+24]. **malleable** [BPR18, CSC24, RSCC+24]. **Man** [Wit92]. **Manage** [HBSP08, ESW+12]. **Management** [AF09, AD93, BPK+07, DD06, Dar00, HTSK90, MWM+08, MFK09, PK04, SE92, YB07, OLOF23, PBB+20]. **manager** [IK18]. **Managing** [BGI+25, Spr06, TGP19]. **manufacturing** [TBB+22]. **Many** [GLZS14, TMWS91, AKC+19, BDE+25, BH12, INS+20, LDLD19, LNSMMA15, MSPSI15, PSV+16, Udd17, VIKM+22, VRB+19, VOL+14, YFS+14]. **Many-Body** [TMWS91, VIKM+22]. **many-core** [AKC+19, BH12, INS+20, LNSMMA15, MSPSI15, PSV+16, Udd17, VRB+19, VOL+14, YFS+14]. **many-nucleon** [LDLD19]. **manycore** [AGC+19, DJJ+19, HFV+12, LTPK17, MBC+18, SCD+19]. **manycores** [BH17]. **Mapping** [CDRV15, JPV23, QH08, ASAK19, DCN17, GJMV18, Jea13, KPR17]. **Mappings** [PTGB02]. **Marenostrum** [RBL08]. **marine** [GEKO19]. **Market** [McN87, NK89, WPBB01]. **Market-Based** [WPBB01]. **Markets** [IIJ93]. **Mass** [McN87]. **Massive** [GNB11, dSSB+08, CdVL+18, GVR+21]. **Massive-Scale** [GNB11]. **Massively** [BBDR95, CH94, CBW95, CB95, Dem90, DCLS19, HVWS09, HVSW09, HS93, HZ91,

JL89, Jon92, LPJ98, MA15, MPG93, MSP+24, Mon89, NZ93, PK04, SBF90, SCB+95, SK92, TMW+99, AHB+16, BCLP17, GEKO19, IJB22, KHS+19, KRR19, KDH18, NMAE13, RMV+19, SPHW18, YJZN22]. **match** [Ozs16]. **Matching** [ZC92, HFV+12]. **Materials** [EGG05, GKN+96, KVY+90, Nak99, WLC91, ZOF90, MPD+12, PHF21, VDF+23, ZSL+23]. **math** [CNR+24]. **Mathematical** [Mon89]. **Mathematics** [Don89]. **MATLAB** [BK07, Lus09b, ZZG+14]. **Matrices** [KC92a, KC92b, TQOA23]. **Matrix** [AGL+87, Chu99, DL09, GG11, IYV04, MCG04, NKR90, VSW+22, Ano24, BDC21, BJWS20, DEKV92, EHTW21, GG14, GGO16, HDL+15, KSM23, MSHPV18, OOY24, PHF21, SCR11, SMK+20, VIKM+22, WZH+20, WWC+24, YIYD19, YLL+14]. **Matrix-free** [VSW+22, KSM23, PHF21, SMK+20, VIKM+22]. **Matrix-vector** [GG11, GGO16, YLL+14]. **matter** [GHHS15, HYY+22]. **Maximization** [GLGLB+11]. **Maximizing** [PIR+20]. **MCell** [CBSB01, CBB+04]. **MCHF** [SYF96]. **Means** [BRT+92]. **Measure** [BH06]. **Measurement** [MSMW07, FU12]. **Measuring** [FGJ+04, Har11, KKS04, SB04]. **mechanically** [MBvdG13]. **Mechanics** [HOPB92, Her88, Ytt97]. **Mechanism** [DZRS99, SK20]. **mechanisms** [CDG+21, GGMJF+20]. **Media** [PGTS10]. **medical** [THH+13]. **Medicine** [SSNM92]. **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, HC10, HL10, HD05, JLL04, JMC05, MWAR+87, MCW+00, NPT+06, NTKP06, WT99, YRA+02, YK04, YIN+11, ZC92, BH12, BGI+25, CHT+19, DEKV92, DCN17, HTD+14, HGMW12, IK18, JO92, KDO16, LFB+15, LM23, LCZ+15, RMV+19, SPNB14, SB19, THDS19, Wal18, WZHG17, YIYD19, SS10]. **Memory-Aware** [SS10]. **memory-efficient** [RMV+19]. **merger** [HLH+19]. **Merging** [YBA+03]. **Mesh** [DFS+05, HT04b, Mav02, MCW+00, SR05, WCE95, WCDS99, DCLS19, GDM+23, ZMG+21, dFRD+23]. **Mesh-Iterative** [MCW+00]. **Meshes** [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, KKDV03, KKD05, LK10, SWHP05, SLG95, TGT05, ZRG+24]. **Message-Passing** [Ano93d, Ano94b, CWG09, MPI98, SMZ+18, SLG95]. **Messages** [JW06]. **Messaging** [KFM+10]. **Metacomputing** [FK97, GS99]. **METADOCK** [ICPSG18]. **metaheuristic** [ICPSG18]. **Metaheuristics** [QH08, TPG+18]. **Metal** [TBB+22, NMAE13]. **metal/polymer** [NMAE13]. **Metals** [Cla91]. **Metascheduling** [Mat03]. **meteorological** [GKR+22]. **Method** [DP05, FCLG07, Man97, SG91, Tis97, de 89, Ade21, BBDH14, FIMU19, HLZ+20, KSF22, KKB+21, KSM23, MMHL11, MSP+24, MMDA19, MGFP20, OKTR11, PH19, SPHW18, TKSK88, YZZW21, YB12, CKE08, SBBS06]. **Methods** [AD93, ACG+90, AGL+87, BMWD87, BBT23, CC95, CSV91, FWSW02, HOPB92, HJ96, MC90, MG87, Meu88, MR90, PHC+10, RR96, SCFK04, TXD+07, THL88, AAB+21a, AAB+21b, Akb24, CMN12, DTL+21, EKF+19, IGA24, IYK16, ICPSG18, JdSA+17, KLR+21, KFM+21, Lai93, LNR+24, Mon12, MK24, RDPK22, SMK+20, ŚCKW19, UZM+14, Nag89].

Metric [HE01, DHL16]. **Metrics** [CMS+11, Num04, Ste04]. **Mexico** [Bus87]. **MFEM** [AAB+24b, VSW+22]. **MFIX** [MAF+22]. **MFIX-Exa** [MAF+22]. **MHD** [ACG+90]. **MIC** [HLS+17, SHK+18]. **Micro** [BWB+10, SKS+13]. **Micro-benchmarks** [BWB+10]. **micro-ischaemic** [SKS+13]. **Microbenchmarks** [JLL04]. **Microcanonical** [BMT89]. **microfluidic** [KDH18]. **micromagnetics** [YJZN22]. **Microprocessors** [WT99]. **Microscopic** [YFH+96]. **microscopy** [DCK+23, RPdB+19, TKA+17]. **microstructure** [TBB+22]. **Microtasked** [MSK92]. **Microtasking** [HA91]. **microthreaded** [Udd17]. **MICs** [TKA+17]. **Middleware** [BA01, CKPD99, CDCV06, EDSV06, MCS+06]. **Migration** [KLJ87, UB95, QHCC17, QAL+23]. **millions** [LYL+16]. **MIMD** [AH93, BOD+91, FFNP97]. **Mimicking** [ACD07]. **Mini** [BGB+18, Gen88]. **Mini-applications** [BGB+18]. **Mini-Supercomputers** [Gen88]. **MiniApps** [MDH+18]. **minimal** [LBP18]. **Minimization** [Rao02, LPB+16]. **Minnesota** [Aus92, ATD+88]. **MiPax** [HKK88]. **MIPSPro** [CW05]. **Missing** [Mar87d]. **Missions** [SKB01]. **Mixed** [Ano02b, BDL+07, LM23, AAB+21a, LCT+24]. **mixed-precision** [AAB+21a, LCT+24]. **MM** [MFP+17]. **MM2** [PUR94]. **MMF** [LNK22]. **Mobile** [FP02, QWIC02, YBA+03]. **Mode** [LRT07, HHSM19, KTP+24]. **Model** [ATN+00, ACD07, ABAS87, BFLL99, BE07, BFNV07, BG02, BMT89, BRT+92, CBW95, DVC88, GS05, GP93, Ish91, JLO05, Kep04a, KJ05, KM95, LR07, LPJ98, PPR03, SSSW91, SG09b, SG09a, SR05, Ste09a, TD08, VFD04, VC89, WBG06, WHL03, AGC+19, AWWG19, ABH+18, CDL20, CDG+14, CMHB15, DAB+12, EDB19, EMP+18, EAG+19, GDKWS15, HPA+22, IYK16, KKL+19, LBP18, LNK22, MKM+19, PMP+20, SDF+17, TNLP13, WDH+15, YWL+14, Cow08, CJK+05, DVW+12, DEE+12, DJC05, ESW+12, HVKW05, JLO05, KTWL18, LJO05, MS05, MW12, PLS05, WD05]. **Modeled** [WJS+90]. **Modeling** [AS00, AGHR19, BCZM07, BELF07, CWHP99, CC95, CTD+05, DR06, DDM87, DSD+91, DCN17, EGG05, EDS95, HVWS09, HVSW09, JO90, MOK00, MWC+05, Men00, MCU+13, OLOF23, Rad18, SG91, SVBP13, SK92, THC+96, THL88, WSCZ05, YK07, YW93, CVJ12, CHWS20, DCM+17, GSK+15, HPS+22, JKBW18, MMHL11, OWC+21, SE12, SK20, SKP+22, UCZ+15, WCS+23]. **modelling** [QHCC17, STS17]. **Models** [ARR99, BV11, BRGR11, BR03, BBD00, DGD+04, DFC90, Gir02, HD05, HAF+96, IIJ93, Kal09b, LJO05, LR09, LRO10, MA89, PA11, PS87, RW03, Ste04, Ste09b, UB95, VDB04, WOS08, WW92, ZC92, de 89, Ade21, BH17, BCH+23, BGB+22, DTDP14, DEL+12, EJD+19, HCC+22, HLS+17, JMM+21, KdOCR+20, KBY+19, MEK+19, MTW+22, MDH+18, MYG23, SCD+19, VSHN14, WKLW19, ZBH+23]. **Modern** [BDG+00, WET+19, ESW+12, KTP+24, KMJ+23, LNR+24, PLJD24, SB19]. **Modified** [HB90]. **Modisazure** [ACF+11]. **modular** [AFGQO19]. **Module** [PLS05]. **Modulo** [Gro03]. **Molecular** [BYT91, CGB+94, CH94, CWG09, CSY10, DQFW90, DGD+04, DVC88, DFC90, KVY+90, MP94, Nak99, NHG+96, AKC+19, AKW19, HXW+13, KFJ20, KNPS21, PGK+24, PIR+20, SKE+23, SDI+19]. **molecule** [JMM+21]. **Monitor** [BH06, SSU+12]. **Monitoring** [LWOB97, MR04, PHB04, SC09, Spr06, VR00]. **Monte** [BEH+90, CH94, DFT+15, FSS13, LM03, LPB+16, MWAR+87, MB87, MFP+17, SABD13, SSSW91, SSR+14, VSS+13, ZK93]. **mortar** [LPB+16]. **Morton** [Wal18]. **MOSFET** [VSS+13]. **MOSFETs** [MV20].

MOTEUR [GMLP08]. **motif** [FAB+21]. **motion** [NSI20]. **Motions** [DFC90]. **moulded** [WSD+14]. **movement** [LM23, PG18]. **Moveout** [LT90]. **moving** [BG22]. **MP** [AEPR92, Del93, DH96, Lai93, LT88, MYC92, MSK92, YW93]. **MP/416** [THL88]. **MPAS** [KTP+24]. **MPAS-ocean** [KTP+24]. **MPH** [HD05]. **MPI** [SLG95, Ano94b, Ano01a, BBG+10, BCG+10, BBS99, BBG+14, BBB+24, BF01, BBDH14, BBH+13, BIC+10, BHK+06, BBC+00, BRM03, Bri10, CBL10, CLVYC+24, DJJ+19, DLB07, DGB+14, FD04, FCLG07, FSC+11, GFD05, GVF+18, HC10, HGMW12, IMS16, KWEF18, KMH+14, LRG+16, LRT07, kLCCW07, MS02, MÁAC+24, MMDA19, OL05, OGM+16, RTRG+07, SCB14, SSB+05, SDJ17, SC04b, SIC+19, THDS19, YSP+05, ZKRA14, SZC12]. **MPI-2** [HGMW12]. **MPI-Based** [FSC+11]. **MPI-IO** [BIC+10, LRT07]. **MPI-OpenMP** [MS02]. **MPI/OpenACC** [OGM+16]. **MPI/OpenMP** [MMDA19]. **Mpi/Openmp/GPU** [SZC12]. **MPI2** [MPI98]. **MPI_T** [GVF+18]. **MPICH** [BHK+06, Cot04, GL97, TRG05, ZRG+24]. **MPICH-G2** [Cot04]. **MPICH-V** [BHK+06]. **MrBayes** [KPST18]. **MRI** [LNR+24, SKS+13]. **Much** [RAGW93]. **Multi** [BKRSR09, BH12, Bri10, KDH11, OKTR11, SSR+14, TNBG07, YK04, APD+15, BGM15, BGO20, CAE+13, CZR+11, DAC+14, HCC+22, IKMS+19, IK18, KTWL18, KKL+19, KILL13, LDW+12, LVA+13, LNSMMA15, MGFP20, PSV+16, TKA+17, TGS+22, VSS+13, VMPW20, VOL+14, YFS+14]. **multi-** [PSV+16]. **Multi-Core** [Bri10, BH12, KDH11, SSR+14, CAE+13, KILL13, LDW+12, LNSMMA15, 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, HCC+22]. **multi-processor** [BGM15]. **multi-projection** [MGFP20]. **multi-resolution** [TGS+22]. **multi-scale** [IKMS+19]. **multi-step** [BGO20]. **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, DTDP14, DDKK19, LWT+11, MPD+12, MBC+18, OPW+12, RSCC+24, THH+13]. **multicores** [BH17]. **Multicriteria** [CJ06]. **Multidimensional** [HLW00]. **Multidisciplinary** [BGB+96, KDO16]. **Multidomain** [KS05]. **multifold** [PIR+20]. **Multifrontal** [AD89, AD93, BMWD87]. **Multigrid** [DMT97, SC04a, AG18, BGO20, DTL+21, GEKO19, HRW19, MK24, ZZG+14]. **Multilevel** [DW97, EGG05, WCDS99, Sta19]. **Multimodal** [FWSW02]. **Multiparadigm** [AS00]. **Multiphase** [ZC92, FIMU19, HBKR21, YZZW21, ZB20]. **Multiphysics** [EW22, KMW+13, LJO05, MCW+00, MWC+05, PK04, MC21, ZMG+21]. **Multiple** [DLG06, MYCR06, Mor89b, Nak99, BLOR18, BDFVP15, HLRK24, HGWN14, KDO16, MDH+18, RDG12, SKS+13]. **multiplication** [DAD+22, EHTW21, GGO16, OOY24, SCR11, WWC+24, YLL+14]. **multiplications** [WZH+20]. **Multiply** [GG11]. **Multipole** [CKE08, KMPJ08, IYK16, KKB+21, YB12]. **Multiprocessing** [Ano87a, DD91, YM91]. **Multiprocessor**

[AD89, BS88, DEKV92, KPR17]. **Multiprocessors** [AD93, DD91, Gir02, Wad99]. **Multiprogramming** [MA89]. **Multiprotocol** [BHK+06]. **multirate** [LNR+24]. **multiscale** [CDG+21, DCK+23]. **Multistage** [GMWG10]. **multitask** [LSLD23]. **Multitasking** [MYC92, THL88, UF89]. **multithreaded** [HFV+12, LD24]. **Multithreading** [BBG+10]. **Multiunit** [GCL93]. **muscle** [IKMS+19]. **Musings** [Luc09]. **Myth** [Ano87c]. **Myths** [MDW+23].

NAMD [NHG+96]. **Nankai** [BAM+16]. **nanometre** [CHW+15]. **nanoparticles** [KFJ20]. **Nanophase** [Nak99]. **NAS** [BBB+91a]. **NASA** [MAB07, PLS05]. **National** [ABF+08, BBB+91b, Bus87, Don89, DGH+93, HGD91, UB95, BEW16, BCH+23, All88, Blo87, Mir90, Web91]. **Navier** [Mav02, SBF90]. **NCL** [GKR+22]. **nCube** [CL95]. **Near** [Arn07, KFJ20]. **Near-Lossless** [Arn07]. **nearest** [DSH+16]. **NEC** [Mor89a]. **Neck** [GKB93]. **Need** [GS09, Ste09a]. **Needs** [Ano87e, HBSM03]. **neighbour** [DSH+16]. **Nek5000** [MGS+15, WZH+20]. **NekBone** [CMMW23]. **NEMO** [EMP+18]. **NERSC** [HBSM03]. **NES** [AMC+18]. **nested** [RSCC+24]. **nests** [RCAE+20]. **Net** [AEG+03]. **Netlets** [Rao02]. **nets** [BDC21]. **NetSolve** [CD97]. **Network** [ACD07, AM00, AB01, AMC+18, BL99, BSCC03, BGF02, CD06, CD97, CK01, Chu99, DD06, DFMD94, LC06, MOK00, NZ93, OMDS23, PHB04, RS03, WEPB12, ABH+18, OF17, VEMR17]. **Network-Based** [AM00]. **Network-Enabled** [CD97, DD06]. **network-on-chip** [VEMR17]. **Network-theoretic** [WEPB12]. **Networked** [FWSW02]. **Networking** [Ano87e]. **Networks** [AKP08, CHZ02, FP02, Gun00, JMP02, Mar89a, MAJJS03, QWIC02, RES87, TNBG07, VLO+08, JRP+23, VRB+19, VDF+23]. **Neural** [AM00, Her88, RES87, BDC21, JRP+23, VRB+19, VDF+23]. **neuroimaging** [KdOCR+20, MRD+15]. **neuromorphic** [VDF+23]. **neuron** [CHWS20]. **neutron** [BSH+16, DFT+15, SSR+14]. **Newton** [DTL+21, GKMT00]. **Newton-multigrid** [DTL+21]. **Next** [DE03, HT04a, MFB+19, WD24, ZKRA14]. **next-generation** [MFB+19, WD24, ZKRA14]. **NMR** [BHK+88]. **No** [Ano87c]. **Nodal** [FSN08, MSP+24]. **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, LCD+24, uITH07, AWWG19, RDG12, SLL+19]. **Non-Data-Communication** [BCG+10]. **Non-Dedicated** [CAK+07, GSHL03]. **non-deterministic** [SLL+19]. **non-Hermitian** [RDG12]. **non-hydrostatic** [AWWG19]. **Non-Polynomial** [uITH07]. **Non-smooth** [LCD+24]. **nonblocking** [DJJ+19, WLFH16]. **Nondeterminism** [BBT23, CRS+19]. **Nonequilibrium** [YW93]. **nonhydrostatic** [AGC+19]. **noninteracting** [PMP+20]. **noniterative** [IMB+19]. **Nonlinear** [AK91, ABAS87, HT04b, KVY+90, DTL+21, GEKO19, JRT16, KLR+21]. **nonstationary** [DTL+21]. **Nonsymmetric** [KC92a, KC92b, MC90, Ma00]. **Normal** [YRA+02, Haj93]. **North** [LC90]. **Northern** [UB95]. **Note** [DT17, Cec20, DT18, DT19, DT23, WD18, WD19, WD21, WD24]. **Notice** [Ano17a, Ano24]. **Novel** [CGB+94, DGJ09, FWZ91, SG07, Cec20, HTD+14, PNFC16, VDF+23]. **Novo** [NKiN+08]. **NSF** [Bra91, Sci92, Sal87].

NSF-Sponsored [Sal87]. **NT** [Ano01a, CLP+99]. **NuChart** [TDM+17]. **NuChart-II** [TDM+17]. **Nuclear** [FSS13, IHMM87, BHZ+23, LDLD19, LD24]. **nucleon** [LDLD19]. **NUMA** [Jea13, MKM+19, OPW+12]. **Number** [Ano92h, FG97, FU12]. **Numbers** [BEF+95]. **Numerical** [ABF+99, ABB+94, DMT01, DE03, Ede93, IIJ93, LWL05, LCT+24, Nag89, PR95, PPR03, PBD+01, Poz97, RAB+15, RIF01, RKKC90, SG91, THDC09, AAB+21a, AAA+22, BG22, BBA+21, BSS15, IGA24, KMJ+23, LHD+25, MAB+13, MKM+19, SDF+17]. **Numerically** [Mah90, WJS+90]. **Nvidia** [BLU+22, KNPS21, RTRZ22]. **NWChem** [JDD18].

O [BCP+20, BTZ+25, DLY+98, DEL+12, IBC+10, KKCB98, KES+17, LPJ98, MMD98, MS95, NFK98, OWO98, PH91, SW01, SR98, TLG98, TD08, TNCC21, 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]. **observe** [TGS+22]. **obstacle** [CCBS11]. **Obstacles** [MBF+11]. **Occupancy** [GLGLB+11]. **Ocean** [Cow08, HAF+96, KJ05, KM95, WSCZ05, CDG+14, EMP+18, KTP+24, JO90]. **oceanographic** [CBA+18]. **October** [OL05]. **ODE** [BCCL09, BH99, KR11]. **Off** [SR05]. **Offers** [Ano87a]. **offline** [dRADS+18a]. **Offload** [BRU05, LCT+24]. **Offloading** [GWKN08, HCCG20]. **Ohio** [BBW90]. **Oil** [KR94, KR95]. **OLCF** [Ano22a, NBE+22]. **On-Board** [SPTT08]. **on-Demand** [EW06]. **On-Line** [LWOB97]. **On-the-fly** [GSA+19]. **One** [GFD05, LRT07, TGT05, Udd17]. **One-IPC** [Udd17]. **One-Sided** [GFD05, LRT07, TGT05]. **Ongoing** [MEK+19]. **Online** [FAB+21, LC06]. **Onto** [QH08]. **Open** [LWOB97, BSW+14, BBB+24, CGW19, GCSK13, AEG+03]. **OpenACC** [DLVL+24, MGS+15, OGM+16, QHCC17, VLLGT+24]. **OpenCL** [ASAK19, CLBS17, RGB+18, RRJ+20]. **OpenDDA** [DGJ09]. **Opening** [PRT90]. **OpenMC** [WTL+25]. **OpenMOC** [BSH+16]. **Openmp** [SZC12, BF01, BBDH14, BBC+00, CLVYC+24, HHSM19, LRLG19, LCT+24, MS02, MV20, MMDA19, OPW+12, TM23, THDS19]. **OpenMP-parallel** [HHSM19]. **Operating** [CW01, EDSV06, HI12, HI13, IH15]. **Operation** [BBR10, BHdR09]. **operational** [CBA+18]. **Operations** [FCLG07, GFD05, MS09, TRG05, TGT05, Akb24, GG14, KMH+14, ŚCKW19]. **Operators** [FSN08, GRC08, ZM07, LMT+12]. **Opportunities** [Ano87a, Cap09, KMW+13]. **optical** [GSK+15]. **Optimal** [BR03, FG97, DEQO21, LTPK17, WWC+24]. **Optimisation** [BGB+18, VSS+13]. **Optimization** [AKP+18, ABB+94, BFLL99, BGB+96, BELF07, CGST19, HL10, HA91, IYV04, KMH+14, LT88, PPK09, RW03, SCD+19, SCB+95, SR05, TXD+07, TRG05, YLL+14, ABH+18, BRGR11, BH12, FIMU19, IMW+13, KES+17, LCD+24, NMAE13, PB23, SDJ17, SHK+18, UZM+14, WD21, YWL+14]. **Optimizations** [PSV+16, DCD+13, Jea13, PUR94, WKLW19]. **Optimize** [KKCB98, GVF+18]. **Optimized** [MSK92, THDS19, IK18, MK24]. **Optimizing** [AKC+19, DDKK19, FSS13, GG11, KILL13, MAB+13, MCG04, Mor89a, NSI20, TGT05, WCE95, WCDS99, BJWS20, EJD+19]. **Optorsim** [BCM+03]. **orchestrating** [OLOF23]. **Orchestration** [ZSL+23]. **Order** [CC95, uITH07, THL88, CZR+11, HF24, KFM+21, KSM23, LH19, MK24, OGM+16, PKC23, PFGDM20, ŚCKW19,

THDS19, VSW+22]. **ordering** [Wal18]. **orderings** [AKW19]. **ordinary** [BDE+25]. **ordinates** [DMSMG18]. **Organic** [CBL06]. **Organization** [FWSW02, FKT01]. **Organized** [BGF02]. **Organizing** [CBL06, GHZ10]. **Oriented** [Hua03, NHG+96, CMN12]. **Orography** [GS05]. **orthogonal** [LCT+24]. **oscillatory** [SPHW18]. **OSWALD** [RGB+18]. **other** [CBA+18]. **Our** [WW92]. **outlooks** [RAB+15]. **output** [Lap22, LCZ+15, WVL+16]. **Overarching** [Kep04b]. **Overhead** [HYH+20, MSMW07, MK24]. **Overheads** [BCG+10, GNB11]. **Overlap** [BBDR95, BRU05, INY+14]. **Overlapping** [PR95, DJJ+19]. **overset** [KBY+19]. **Overview** [AGR+03, DFP+96, DJC05, HMA+24].

P [MAB+13, GNB11, SSU+12]. **P4** [Mat95]. **PACE** [NKP+00]. **Pacific** [JO90]. **Package** [RIF01, SYF96, QSX+20]. **PACO** [BQOS21]. **Pair** [Fro91]. **PAM** [CEL+97]. **PAM-CRASH** [CEL+97]. **pandemic** [BCH+23]. **Panel** [Sal87]. **PANORAMA** [DCM+17]. **Papers** [Lee03, Moh09, OL05, DT11, KKDV03]. **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, CCZ07, CE00, CDH+93, CL95, CCBS11, CH94, CBW95, Cho01, CSV91, Chu99, CEL+97, CB95, CM97, CJK+05, DEKV92, DLY+98, Dem90, DIB00, DFS+05, DZRS99, DMT01, DZDR95, Ede93, EGG05, EDS95, FG97, Gaf88, GCCC+03, GKN+96, GKP97, GDS17, GP93, GGS01, GL97, GKMT00, HKK88, HVWS09, HVSW09, HR97, HdV18, HLW00, HJ96, HT04b, HS93, HZ91, IBC+10, JLO05, JL89, Jon92, KDL01, KC92a, KC92b, KT99, Kok88, KR11, KS05, LD24, Lap22, LJO05, LPJ98, LWOB97, Lus09b, MC90, MS09, MMD98, MA15, MS02, MSMW07, MT89, MWAR+87, MPG93, Mat95, Mav02, MD99]. **Parallel** [MWC+05, McR87, Meu88, MBF+11, Mon89, Mor89b, MSK92, MS95, NK89, NKR90, NKiN+08, NHG+96, NZ93, NFK98, 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, 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, Ade21, AKW19, dRADS+18a, dRADS+18b, BLC17, BH12, BTZ+25, BCLP17, CSC19, CMHB15, DKMT18, DAB+12, DEL+12, DCLS19, EJD+19, GBB18, GHL15, GKR+22, GHHS15, HLW+16, HLZ+20, HLS+17, HHSM19, IVG+20, IGA24, IMH+11, IMH+12, ICPSG18, ILCLG20, IJB22, IKMS+19, JdSA+17, KT94, KHS+19, KRR19, KES+17, KDH18, Kum89, LPG88]. **parallel** [LGDH16, LSLR+20, LWT+11, LNR+24, LBP18, MY24, MV20, MSP+24, MFB+19, MJD16, MS19, MSKM21, NMAE13, NSI20, PDDI22, PH19, QSX+20, RMV+19, RSCC+24, SPHW18, SO23, Sta19, SMZ+18, SB19, TRS13, TPG+18, THDS19, WVL+16, WEPB12, YJZN22, ZWS21, DP05, KJ05, KKDV03, 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, RSCC+24]. **Parallelization** [AJL+97, CDL20, CBV97,

Cow08, Cza03, DGP+97, GCD97, HE01, KM95, LP10, LVA+13, MCW+00, Reu92, WBG06, CIWI17, CDG+14, KSF22, MFP+17, MMDA19, Ozs16, SZC12]. **Parallelizing** [AFL+18]. **Parameter** [FBBC03, KFJ20, SH93]. **Parameterizations** [WD05, AJ24]. **Parameters** [LR09]. **ParaScope** [CCH+88]. **PARCOACH** [SCB14]. **Park** [UB95]. **Parkbench** [HL00]. **Parmetis** [LDGR03]. **PaRSEC** [BHC+25, ML20]. **Part** [HVWS09, HVSW09, SR05]. **Parthenon** [GDM+23]. **Partial** [Key09, Meu88, RMS+18, KS89, YZC+15]. **Participate** [Mar87c]. **Particle** [DR06, DDM87, MB87, MD99, MR90, PGTS10, ABH+18, HF24, MBF+21, NSI20, WET+19]. **particle-in-cell** [WET+19]. **particles** [PMP+20]. **Partition** [LQJG16]. **Partitioned** [MHW15, SBG10, 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, KKDV03, KKD05, LK10, MPI98, SWHP05, TGT05, ZRG+24, SMZ+18, ZKRA14, SLG95]. **PASSION** [KKCB98]. **Passive** [MBF+11]. **Patching** [BH00]. **Path** [Luc09, MAF+22, SDJ17]. **Paths** [Rao02]. **patients** [SKS+13]. **Pattern** [BE07, APD+15, SKS+13]. **Patterns** [Cho01, GRC08, GKB93, SR98, dRADS+18b, BRR17, DKMT18, EEL15, HGMW12, WEPB12]. **Patterns/Operators** [GRC08]. **PC** [CDT05, CK01, LWL05, Ste01]. **PCISPH** [VMPW20]. **PCs** [AWS01]. **PDE** [CCO+19, CHT+19, DTL+21, FMR+20]. **PDEs** [Ma00]. **peak** [OY22]. **Peaks** [TC10]. **PeleC** [dFRD+23]. **PERFECT** [BCK+89]. **Perform** [Ano24]. **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, BBT23, BGB+18, BBA87, BFNV07, BRM03, BRT+92, BBD00, BDG+00, BELF07, CDQS04, CWHP99, CC95, CK01, CDP+94, CAK+07, CSY10, CEL+97, CB95, CJK+05, Dar00, Del93, DH96, DGD+04, DGJ09, DBA+09, lSD89, EHTW21, EAG+19, FGC+05, FGJ+04, FSC+11, FSN08, FFR+10, FU12, Gun00, HIT+14, HVWS09, HVSW09, 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, LNR+24, LD07, MSMW07, MPB+22, Mav02, MA89, Men00, MYG23, MJ04]. **Performance** [MMN09, MSK92, NFK98, NPT+06, NTKP06, NKP+00, Num04, OCC+08, PPK+04, PB19, PF16, Poz97, PLS05, QHCC17, QWIC02, RIF01, RBL08, RDPK22, SBF90, Sab91, SWHP05, SSQ08, SCB+95, SM06, SVN09, SC09, Spr06, SKB01, Ste01, Ste04, SBG10, SFP02, SBBS06, SW04, SB19, THC+96, TMW+99, TAR+08, THDC09, VC89, VR00, VDB04, Wad99, WT99, WCS+23, WBFB04, WG07, WD05, Yel04, YK04, YIN+11, YSP+05, ZLGS99, ABC+24, AAB+24a, AKC+19, AAG+23, AAB+24b, ATD17, AKP+18, AFGQO19, BLC17, BBA+21, BRGR11, BCP+20, BSH+16, BAP+12, CGGC+16, CSS24, CGW19, Cec20, CMMW23, CS14, CZR+11, CMHB15, CHWS20, DTDP14, DCM+17, DWT+19, DVW+12, DHL16, DAC+14, ECG+13, EB23, EKF+19, EKD+12, Fem90, FMR+20, GVF+18, GHL15, GR17, GMWG10, GSND20, GS18, GDM+23, GSK+15, GGO16, Har11, HLW+16]. **performance** [HPA+22, HCCG20, HLRK24, IYK16, IFA15, IGBBR23, INS+20, JKD+11, JDAD19, KDH11, KL13, KNPS21, KMM16, LAZ+24, LDLD19, LST15, LPB+16,

LWT+11, LSLD23, MAB+13, MDW+23, MSPSI15, MCU+13, MW12, MSKM21, NMAE13, OY22, PPC+16, PSV+16, PB23, SFLC18, SSR+14, SZ11, STS17, SK20, SKC10, TR17, TGP19, TKA+17, TNLP13, UCZ+15, VRB+19, WLG+18, WKLW19, WLFH16, WD19, WD21, WD24]. **performance-portable** [CMMW23]. **Periodic** [ZBMK11]. **PERMAS** [AJL+97]. **persistent** [KV19]. **Perspective** [Bar09, YHG+07, PS12]. **Perspectives** [Ano92n, MP95, Sab91]. **perturbation** [KdOCR+20, LWL+23]. **perturbation-based** [LWL+23]. **perturbative** [MFP+17]. **Pervasive** [Ald89]. **petaflop** [RWM17]. **petaflops** [TAM+16]. **Petascale** [Cap09, Her09, HXW+13, WWA+11, JKD+11, MKM+19]. **Petascale/Exascale** [Cap09]. **PEZY** [YIME19]. **PEZY-SC** [YIME19]. **PGAS** [GDKWS15, NMI+19]. **pH** [MP94]. **Phase** [CBL10, CDH+93, FWZ91, HSLK11, YCHH90, CDL20, CRS+19, KDH18, RPdB+19, VSHN14]. **phase-contrast** [RPdB+19]. **phase-field** [VSHN14]. **PHAST** [MPB+22]. **PHAT** [MJGL13]. **Phi** [HCCG20, LSES20]. **Phi**^{TM} [MMDA19]. **Photon** [MWAR+87]. **phylogenetic** [KPST18]. **Physical** [Chu99, SR98, WD05]. **Physical/Logical** [Chu99]. **Physician** [Wit92]. **Physics** [DSD+91, KDH11, MR90, AJ24, Ano22a, DAC+14, GHHS15, HCC+22, HPS+22, NBE+22]. **Pieces** [Mar87d]. **Piotr** [Ano24]. **Pipeline** [BFLL99, BKRSR09, BCH+23]. **Pipelined** [TRS+10, MSKM21]. **pipelines** [KdOCR+20]. **pipelining** [LQJG16]. **Pittsburgh** [RS88]. **pivoting** [YZC+15]. **Pixel** [HC08]. **placement** [DJJ+19]. **Planet** [Mar89b]. **Planning** [CDCV06]. **Plasma** [CDD+90, EM23, FU12]. **Plasmas** [ACG+90, DDM87, WET+19]. **plastic** [WSD+14]. **plate** [NMAE13]. **Platform** [LJC+10, PMS+04, PLS05]. **Platform-Adapted** [PMS+04]. **Platforms** [BLRR01, BMR06, Eyr06, MYCR06, OCC+08, dRADS+18a, ABG+19, BJWS20, BBG+18, BSH+16, Cec20, DDKK19, GSND20, IYK16, IMW+13, MPD+12, MFB+19, MFP+17, MBF+21, PPC+16, SHK+18, SB19, UZM+14, Ano19]. **Play** [Pan97]. **PLW** [LD07]. **pMATLAB** [BK07]. **POEMS** [BBD00]. **Point** [BSBF89, HC10, Ma00, MC21, CDL+19, LH18]. **Point-block** [MC21]. **Point-SSOR** [Ma00]. **Point-to-Point** [HC10]. **Pointers** [LRT07]. **points** [CdVL+18]. **Poisson** [GGS01, KRR19, RTRZ22]. **polarizable** [KFJ20]. **policies** [BLOR18]. **Policy** [EW06]. **Pollution** [DFH+96]. **Polyacetylene** [ZOF90]. **Polyenes** [AEPR92]. **polymer** [NMAE13]. **Polymers** [DFC90]. **Polynomial** [uITH07]. **Polytetrafluoro** [DVC88]. **population** [OWC+21]. **Porous** [PGTS10, MPD+12]. **Portability** [WD05, DWT+19, GS18, LAZ+24, LNK22, MPB+22, QHCC17, TGP19]. **Portable** [BDG+00, FCLG07, GL97, HLNW25, PLS05, CMMW23, EKF+19, GDM+23, HLH+19, SB19, WCS+23]. **Portals** [BRM03]. **Porting** [LNK22, MCR+17, Mic09, SHK+18, KNPS21, WD19, WD24]. **pose** [BE17]. **Positive** [Ald89]. **positron** [VBVD22]. **Post** [BBH+13, AAA+25]. **Post-failure** [BBH+13]. **Potential** [CGW19, YZZW21]. **Potentials** [DGD+04, THDS19]. **Power** [BHdR09, Dem90, TNBG07, Ade21, CGGC+16, LSES20, PPC+16, SFLC18, UZM+14, BQOS21]. **Power-Aware** [BQOS21]. **power-line** [Ade21]. **Power-Saving** [TNBG07]. **Powerful** [Mor89b]. **PowerPC** [MAB+13]. **PRACE** [Mic09]. **Practical** [Cho01, WKLW19]. **Practice** [BR03]. **Practices** [PK04]. **Pragmatic** [DCD+13, Eyr06]. **Precision** [Ano02b, BDL+07, AAB+21a, AFGQO19, Bai20, DAD+22, HF24, LH18, LM23,

LCT+24, OY22, RTRZ22]. **precisions** [HLRK24]. **Preconditioned** [MG87, IVG+20]. **Preconditioner** [BBS99, de 89, CGBL25, IJB22, RMS+18]. **Preconditioners** [CE00, Cho01, Ma00]. **preconditioning** [MC21, PKC23]. **Predict** [VS03]. **Predicting** [BE07, WLC91, WWC+24, CNW+23, MCU+13]. **Prediction** [FFR+10, HL00, KUE+00, NKP+00, SCB+95, BAM+16, BBA+21, BGB+22, GCSK13, HLK+23, MKM+19, PLJD24, UBK+23]. **Predictions** [RIF01, TLdS22]. **preeminent** [YB12]. **Preemptive** [BBH+06]. **Preface** [Ano17b, Bak01, Bam12, BO08, CCF+06, CCD+06, CJZ08, DDS00, DKD07, DT97, 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** [BBMB19, YB07]. **Prime** [Ano92h, Sim90]. **Principal** [DF08]. **Principles** [DQFW90, GKN+96, TMWS91, HIT+14]. **Priori** [Cho01]. **Priority** [PBB+20]. **Privacy** [Mar89a]. **Prize** [dS21, BBD+17]. **probabilities** [Haj93]. **Problem** [CDH+93, CSV91, DL09, UF89, CCBS11, RRJ+20, SKE+23]. **Problems** [BGG05, CD97, FG97, FBW+87, GGS01, MR90, NK89, NKR90, SWW94, uITH07, TRS+10, TMMR10, DTL+21, KC18, Lai93, LNR+24, MC21, MBHF15, SPHW18]. **Procedure** [CGB+94]. **Process** [AM00, FGC+05, GCL93, SC04b, KILL13, WSD+14]. **Processes** [MWC+05, GSK+15, LSLD23, MÁAC+24]. **Processing** [AK91, FP02, GLGLB+11, KHP+04, LP10, MA15, MT89, Mor89b, MSK92, NTD10, OWO98, PC08a, PMS+04, Sal87, SPTT08, SWG+03, VLO+08, YW93, AJ24, AAG+23, BE17, BLC17, CMMW23, CLG13, CGBL25, CMN12, DMQS12, GHHS15, HPS+22, KDO16, LQJG16, PH91, RDG12, RWM17, SFLC18, SO23, VBVD22, YZZW21, ZCZ+13]. **Processor** [MPG93, RRV06, SBF90, SK92, BGM15, DJJ+19, MAB+13, MMDA19, Mon12, PH19]. **Processors** [Bri10, BDG+00, LR07, LT88, MWAR+87, Mor89b, TMW+99, AGC+19, BBG+14, CZR+11, MBC+18, MSPSI15, PSV+16, RSCC+24, SB19, TQOA23, THH+13, YIME19]. **Product** [MCG04, BDC21, Eri88, ŚCKW19]. **Production** [MSK92, MDH+18, SH93]. **Productively** [VBVD22]. **Productivity** [Bar09, FGJ+04, KKS04, Kep04a, Kep04b, Kuc04, SB04, Ste04]. **Profiling** [MSMW07, SGFC09]. **Program** [Kit90, NHG+96, WG07, Fem90, KJ05, Web91]. **Programmability** [CCZ07, CLSS09]. **Programmable** [HC08]. **Programme** [HT04a]. **Programmer** [BEK+18]. **Programmer-guided** [BEK+18]. **Programming** [BBG+10, BV11, BF01, BDG+00, CCH+88, CWG09, Cza03, EGG05, Gan88, Gir02, Kal09b, KKS04, Kok88, Lus09b, Mat95, NPT+06, PA11, PBAL09, Poz97, RW03, Sha88, SCB+95, SMW87, VEMR17, WLB92, BH17, CCBL18, EDB19, GBB18, GDKWS15, HLS+17, IVG+20, LBP18, MGB12, MDH+18, SB19, TM23]. **Programs** [ACM88, DLB07, GL04, HC10, LWOB97, NZ93]. **Progress** [AGL+87, BRU05, CAE+13, DJJ+19, MEK+19]. **Project** [BHK+06, CBB+96, ESD+22, PK04, AAA+25, BGI+25, MZA+24, BCC+01, CNR+24, DBA+09, DBM+11, EW22, Ger21, Mic09, OKTR11, PS87, PHB04, Wit92]. **projection** [MGFP20]. **projects** [ACF+11]. **Promising** [Gir02]. **proof** [RTRZ22]. **Propagation** [GKN+96, ALE+20, ASAK19]. **Properties** [ACG+90, DFS+05, WLC91, ZM07, AKW19, FFZ+23, PHF21]. **proposal** [ZKRA14]. **prospectus** [Bra91]. **Protein** [ACD07, BHK+88, Jon92, RGB+18,

DSH+16, HLK+23]. **protein-ligand** [HLK+23]. **Protocol** [TNBG07]. **Prototypical** [WLVL+96]. **prototyping** [ZRG+24]. **Provided** [LS06]. **Providing** [GKP97, SLL+19]. **Proximal** [NZ93]. **Pruners** [SLL+19]. **pulse** [ASAK19]. **Purity** [HC08]. **Purpose** [CKE08, Gus04, BE17]. **Purpose-Based** [Gus04]. **Pushing** [THH+13]. **PVM** [BDG+95, Mat95, SYF96]. **PVMGeant** [DZDR95]. **PVODE** [BH99]. **pyAMReX** [MZA+24]. **PyCOMPSs** [TBA+17]. **Python** [FKA+17, GKR+22, LD07, RCAE+20, TBA+17].

Q [KMH+14]. **Qaulity** [Mat03]. **QCD** [Din91, JC12]. **QCDOC** [DGD+04]. **QM** [MFP+17]. **QM/MM** [MFP+17]. **QoS** [BSCC03]. **Quadrics** [YSP+05]. **Quadtree** [CL95]. **Quality** [PK04]. **quantitative** [WLG+18]. **Quantized** [Ham91]. **Quantum** [DFC90, FBW+87, IKY+10, KVY+90, Liu90, SSSW91, ARPY19]. **Quarks** [BOD+91, BEH+90]. **Quartic** [uITH07]. **quasi** [YLL+14]. **quasi-diagonal** [YLL+14]. **Quasigeostrophic** [KM95]. **Quda** [JC12]. **Query** [SWG+03]. **Querying** [CHZ02]. **Questions** [PPS09, CGW19]. **Queuing** [Ish91]. **Quintessential** [HCC+22].

RA [AMC+18]. **Radar** [MPG93, SVBP13, ZCZ+13]. **radial** [EKF+19]. **Radio** [CBB+96, CLG13, VFJ+15]. **radiosity** [SABD13]. **Radiotherapy** [DCCS10]. **RaftLib** [BLC17]. **Raid** [Pla09]. **Raid-6** [Pla09]. **railway** [CGGC+16]. **RAJA** [VSW+22]. **random** [PNFC16]. **Randomly** [CYT+02]. **Range** [BBA87, MHW15]. **Ranger** [BWB+10]. **rank** [CGBL25]. **ranking** [AMC+18, DHL16]. **rapid** [JMM+21]. **Rare** [BB02]. **rate** [BBG+14]. **rationale** [BBH+13]. **ratios** [HBKR21, UBK+23]. **ray** [EEL15, PS12, CDH+93]. **raycasting** [BH12]. **rays** [PS12]. **rCUDA** [PIR+20]. **re** [IGA24]. **re-assuring** [IGA24]. **Reaching** [CIWI17, PGK+24]. **Reacting** [LP10, MYC92, dFRD+23]. **Reaction** [Koi90, BG22]. **Reactions** [ASW91, Reu92, TWK87]. **Reactive** [PGTS10, AKC+19, LNR+24]. **Reactor** [FSS13]. **Read** [RWM17]. **Reading** [Ano02r, Ano02s]. **Ready** [Sim90]. **Real** [BE17, KK01, NRR97, ODD07, TAR+08, VR00, WLC91, Wri12, YIME19, BCH+23, EHTW21, HPW+16, MPB+22, MJGL13, WZHG17]. **Real-Time** [KK01, NRR97, VR00, Wri12, BE17, YIME19, BCH+23, MJGL13, WZHG17]. **real-world** [HPW+16]. **Realistic** [BR03, LC06]. **realizations** [DEQO21]. **realized** [ABL+22]. **Reciprocating** [YK07]. **Recognition** [BE07, RES87, CdVL+18, SKS+13]. **Reconfigurable** [BCC+06, RRJ+20]. **Reconfiguration** [LK01, IMB+19]. **Reconstruction** [CSY10, FFR+10, BGM15, SSCF19, THH+13, VBVD22]. **Recovering** [OY22]. **Recovery** [BB02, BBH+13, HRW19, Sta19]. **rectangle** [Haj93]. **Recurrent** [SMW87]. **redatuming** [HLRK24]. **Redistribution** [DP05, JW06, RRV06, SS10]. **reduce** [APD+15, CGW19]. **Reduced** [BFLL99]. **Reduced-Dimensionality** [BFLL99]. **Reducing** [BLOR18, BGO20, CdVL+18, CSC19, DLY+98, JMC05, LM23]. **Reduction** [NRR97, ATL+15, FAB+21, FFZ+23]. **References** [Ano02p, Ano02q]. **refined** [PKC23, Sta19]. **Refinement** [BDL+07, HT04b, SR05, GDM+23, LCT+24, ZMG+21, dFRD+23]. **Refining** [AAB+24a]. **region** [SPNB14]. **region-based** [SPNB14]. **Regional** [KM95, CDG+14, MTW+22, WSCZ05]. **Regression** [VS03]. **related** [BQOS21].

Relational [MS09]. **Relative** [PUR94, VC89]. **Relativity** [RIF01]. **relaxation** [RDPK22]. **release** [ELEB21]. **Reliability** [TNLP13, BEK+18, IGA24]. **Remeshing** [LDGR03]. **Remote** [BB02, DP05, NTKP06, HGMW12]. **Remotely** [VLO+08]. **Renaming** [BPBL11]. **rendering** [BH12]. **repeatable** [NDMR20]. **Replication** [BCM+03, BCR+14, TGS+22]. **replication-transcription** [TGS+22]. **Report** [Buz89, Sal87]. **representation** [LHD+25]. **Representations** [AS00, WW92, CRS+19, DF18]. **Reproducibility** [Bai20, IVG+20, MEK+19, NDMR20, PBE+19, SLL+19]. **reproducible** [IGDQO19]. **Request** [DD06]. **required** [CdVL+18]. **Requirements** [LPJ98]. **Research** [Ano87a, Aus92, ABB+94, Bus87, Cap09, CDP+94, Don89, Duk91, IHMM87, KHK+09, Mar88a, Mir90, Pan97, SG09b, SKC10, TR92, BBW90, KT94, PBB+20, EM89, dS21]. **reservation** [GSA+19, Mat03]. **reservation-based** [GSA+19]. **Reservoir** [AWS01, Ewi88, KR94, KR95, PR95, ZC92, MS19]. **Resilience** [BBA+21, CGG+09, BCR+14, CBD+17, LFB+15]. **Resiliency** [AAA+22]. **Resilient** [BPR18, CGW19, KS05, RMS+18]. **Resolution** [DFS+05, HB90, MAB07, WOS08, Ano22a, CHW+15, DVW+12, NBE+22, TGS+22, WDH+15]. **resolutions** [TLdS22]. **resolved** [KBY+19]. **resolving** [LNK22]. **resonance** [JKBW18]. **Resource** [AAF+01, EW06, FBBC03, MFK09, Mat03, WPBB01, YB07, CDRV15, MRD+15, PIR+20]. **Resources** [QH08, ZSL+23]. **respiratory** [DCK+23, GGMJF+20, TGS+22]. **Response** [BBC+00, ZOF90, BCH+23]. **Restart** [SSB+05]. **restoration** [APD+15]. **Restrained** [CGB+94]. **Results** [BMR06, GNTLH97, Jea13, PUR94, WLVL+96, BRGR11, BSH+16]. **Rethinking** [KES+17]. **Retracted** [IMH+12]. **Retraction** [Ano24]. **Retrospective** [Mar88b]. **reuse** [JCK21, QAL+23]. **reveal** [ZBH+23]. **Reverse** [HHSM19, QHCC17, QAL+23]. **Reverse-mode** [HHSM19]. **Review** [Bus87, Con88, Mar88a, Nag89]. **Reviewers** [Ano20c]. **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]. **Rings** [RRV06]. **RISC** [Gro03]. **RISC-Based** [Gro03]. **risk** [ABL+22, CNW+23]. **RNA** [SCB+95]. **road** [TDM+17]. **Roadmap** [THDC09, DBM+11]. **Rocks** [Pap11]. **Role** [CLVYC+24, Pan97, Sab91, DMJS19]. **Role-shifting** [CLVYC+24]. **Roles** [MMS88]. **roll** [HRW19]. **roll-forward** [HRW19]. **Rolling** [FFNP97]. **room** [MSP+24]. **Roothaan** [MMDA19]. **rotors** [PLJD24]. **Routines** [CDQS04, GKR+22]. **Routing** [CHZ02, MOK00]. **RTX** [BLU+22]. **Run** [DLY+98, BDC21, LYL+16]. **Runge** [KR11, RR96, RDPK22]. **Running** [CNW+23, Fra05, MGB12]. **runs** [CdVL+18, SLL+19]. **Runtime** [AJL+97, BH00, Dar99, GGMJF+20, Kal09b, LS06, PG18, HI12, HI13, IH15, LRLG19, WKLW21]. **Runtime-compilation** [PG18].

S [Lai93, WOG95, LYL+16]. **S-3800** [WOG95]. **S-MP** [Lai93]. **SAM** [LNK22]. **SAMCEF** [GCD97]. **Sampling** [MR04]. **San** [Mai87]. **Santos** [BCP+20]. **SAR** [AAC+97]. **SARA** [SBWS99]. **SARS** [BGB+22, CDG+21, CNW+23, DCK+23, ZBH+23]. **SARS-CoV-2** [BGB+22, CNW+23, DCK+23, ZBH+23, CDG+21]. **Satellites** [BKS+07]. **saturation** [CIWI17]. **Saving** [TNBG07, SKSG19]. **Scala** [SFP02].

Scalability [BCYS11, BHC+25, DR06, FSC+11, FMR+20, GS05, HLW00, KC18, MWC+05, YIN+11, DAB+12, MW12, SPHW18, VIKM+22]. **Scalable** [CD06, CHZ02, DW97, DMT01, FKT01, HGMW12, IBC+10, JSSZ09, MCW+00, MS05, MAJJS03, SDJ17, SFP02, WLB92, ZLGS99, ZRÇ+06, dPIdA03, BG22, BCH+23, BTZ+25, DEE+12, EKF+19, AAT+20, GEKO19, HLH+19, JMM+21, JBOT19, KHS+19, TDM+17, YB12, ZB20]. **Scalar** [Ish91, OCC+08, FU12, KS89]. **scalar-type** [FU12]. **Scale** [AS00, AK91, BDP01, Ber92, BBA87, BCC+06, CWHP99, Ewi88, Fra05, GGS01, Gun00, GNB11, Her09, HLW00, HSLK11, Joh01, KMJ+23, Key09, KUE+00, LT88, LC06, MPS15, Mor89b, NKR90, Nak99, PS87, SD87, YRA+02, ZRÇ+06, dSSB+08, AAA+22, AMB+18, BAM+16, BLOR18, BEK+18, DCM+17, EM23, EEL15, FAB+21, FR22, GDKWS15, GMWG10, HIT+14, HYY+22, HRW19, HLNW25, IKMS+19, INS+20, JBOT19, LM03, LDW+12, LWL+23, MBHF15, MJD16, MRD+15, OLOF23, PDDI22, STP+13, SIC+19, VOL+14, YIME19, ZSL+23, ZKRA14, ZBH+23]. **scales** [BEW16, PBE+19]. **Scaling** [CGB+94, CK01, CLM+16, GHHS15, ZM07, GR17, INY+14, MKM+19, SKSG19]. **Scattering** [MBF+11]. **scene** [SABD13]. **Schedule** [SBWS99]. **Scheduler** [LS06, TR17]. **Scheduling** [ATN+00, BKRSR09, BPK+07, BR03, BBH+06, CJ06, CCRV20, CKPD99, CBL06, DLG06, Eyr06, JW06, JPV23, KCC+06, LJC+10, MYCR06, SG07, TR17, WvNM+06, ABD+18, ABG+19, BPR18, CSC24, GSA+19, HLC+19, HPA+22, Jon12, LQJG16, Mat03, ML20, OPW+12, WHGT22]. **schema** [ICPSG18]. **Scheme** [BG00, GS05, DMSMG18, IKMS+19, KPR17, KHS+19]. **Schemes** [BS88, BSS15, BBMB19, SZC12]. **Schrödinger** [BFLL99, IKY+10]. **Schwarz** [GKMT00, MK24, NCA21, PR95]. **SCIARA** [SDF+17]. **SCIARA-fv3** [SDF+17]. **Science** [All88, Blo87, CD97, CDH+97b, Don89, Duk91, GKN+96, GL09, HBSM03, HT04a, HWP03, Joh01, Mai87, Mer87, Nas92, RS88, Sab91, Web91, WWA+11, ADMP18, ACF+11, CMS+11, CNR+24, PB23, SKP+22, ZSL+23]. **Sciences** [NKR90, DGH+93]. **Scientific** [AS00, BAA+06, BBA87, BJK07, DT99, DT11, DT17, Fol90a, Gaf88, GL97, HME90, Hab90, HLP+03, JLL04, JMC05, KPM+96, KWB06, LS90, Mar87a, OCC+08, Sal87, SE92, vLRA+03, ASHH16, CMS+11, CDL+19, CBD+17, DPA+18, DMJS19, DMQS12, DT19, DT23, DCD+13, DAC+14, EKD+12, FKA+17, GSND20, IMB+19, JRP+23, LWT+11, LCD+24, MGB12, PBB+20, PBE+19, SIC+19, TM23, TDG+19, UBK+23]. **sclerosis** [SKS+13]. **scope** [SK20]. **screening** [ICPSG18, ILCLG20, LWL+23, MSPSI15]. **SE** [DEE+12, KJH96]. **Sea** [LPJ98, CDG+14]. **Search** [VDB04, CSC19, FTB13, PFGDM20, RRJ+20]. **Search-Based** [VDB04, FTB13]. **Searches** [FBBC03]. **Second** [uITH07]. **Second-Order** [uITH07]. **Secondary** [SCB+95]. **sectioning** [KPR17]. **Seeing** [LPG88]. **Seeking** [Bar09]. **Segmentation** [Kal09a]. **Seismic** [CDH+97b, OWO98, ZRÇ+06, HLRK24, QHCC17, SFLC18, TAM+16]. **Select** [KKDV03, JPV23]. **Selected** [DT11, OL05]. **Selecting** [DEQO21]. **Selection** [CY08, DTDP14, LTPK17]. **Selective** [RES87]. **selector** [dRADS+18a]. **Self** [BGF02, CBL06, DE03, FWSW02, GHZ10, NC18]. **self-** [NC18]. **Self-Adapting** [DE03]. **Self-Organization** [FWSW02]. **Self-Organized** [BGF02]. **Self-Organizing** [CBL06, GHZ10]. **Semantic** [FP02]. **Semantics** [FGC+05]. **Semi** [EM23, KRR19, MBHF15].

Semi-Lagrangian [EM23, KRR19]. **semi-synchronised** [MBHF15]. **Semiconductor** [FWZ91, PHC+10, Lai93, Rad18, TKSK88]. **Semiconductors** [Cla91]. **Sensed** [VLO+08]. **Sensor** [AKP08, BB02, BGF02, CYT+02, CHZ02, FP02, JMP02, QWIC02, STP+13]. **Sensors** [FWSW02]. **separated** [CvG11]. **September** [OL05]. **Sequence** [Jon92, MP18]. **sequences** [HLK+23, LD24]. **sequencing** [MBC+18]. **Sequential** [WG07, CDL20]. **Serial** [NK89, NKR90, GKR+22]. **Series** [ACD07, Mar88a]. **Server** [CD97, DD06]. **Servers** [CD06]. **Service** [HLP+03, Hua03, Mat03, WHL03, ZKS+24]. **Service-based** [HLP+03]. **Service-Oriented** [Hua03]. **Services** [AEG+03, CBA+18, ECG+13, ZKRA14]. **Sesam** [BBA87]. **Set** [JLL04, PTGB02]. **sets** [CDL+19, LGDH16]. **Severe** [WJS+90, TGS+22]. **shallow** [EKF+19, EAG+19, LVA+13, MYG23]. **shallow-water** [EAG+19, MYG23]. **Shape** [WCDS99]. **Shared** [AH93, BMWD87, Bri10, BEF+95, CDT05, CWG09, Gir02, HC10, LRT07, MWAR+87, NPT+06, WG07, ZC92, BH12, DEKV92, KDO16, SB19, THDS19]. **Shared-Memory** [AH93, CWG09, BH12, DEKV92, SB19]. **shared/distributed** [THDS19]. **sheet** [WCS+23]. **Shelf** [LPJ98]. **shifting** [CLVYC+24]. **SHMEM** [BBDH14]. **Should** [Pan92]. **shuffle** [HPW+16]. **shutdown** [BLOR18]. **SICM** [BGI+25]. **Side** [HTSK90, kLCCW07]. **Sided** [GFD05, LRT07, TGT05]. **Sidney** [Mar91]. **Sieves** [CH94, Mon89]. **Signal** [FP02, PMS+04]. **Signals** [Arn07]. **Silent** [BSS15]. **silico** [MSPSI15]. **silicon** [HXW+13]. **similarity** [LFB+15]. **Simple** [Kal09b, SC04b, SBWS99]. **Simulate** [BMT89, GMWG10]. **simulated** [KKL+19]. **Simulating** [BEH+90, Din91, Haj93, VMPW20]. **Simulation** [AWS01, ABF+99, BDP01, BHdR09, 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, ASAK19, Ano22a, ARPY19, BLU+22, BHZ+23, BG22, BSW+14, CHW+15, CNW+23, DAC+14, EM23, HCC+22, HLH+19, HYY+22, HXW+13, IKMS+19, JKD+11, JRT16, KDO16, KDH18, LPB+16, MTW+22, MS19, NBE+22, STS17, TSH+19, TAM+16, TBB+22, Udd17, VOL+14, WET+19, WH20, WSD+14, YIME19, ZB20]. **Simulation-Based** [PPK09]. **Simulations** [ABAS87, BG00, BYT91, BRT+92, CBSB01, CBB+04, CH94, DLY+98, DFMD94, FSS13, GGS01, Ham91, HKK88, HSLK11, HZ91, KDH11, KT99, KWB06, MD99, MHS11, NKiN+08, PGTS10, PK04, RTRG+07, SSSW91, SKP+22, THC+96, AAA+22, AKC+19, AKW19, BEW16, CCO+19, CGST19, CDG+21, CMN12, CHWS20, DFT+15, FIMU19, FT19, GGMJF+20, HBKR21, HPW+16, HPS+22, IMW+13, IGBBR23, IJB22, JBOT19, KFJ20, KMJ+23, KMW+13, KBY+19, KHS+19, LVA+13, MBT+24, MFP+17, MAF+22, PPC+16, PMP+20, Rad18, RAB+15, THDS19, TGS+22, YWL+14]. **Simulator** [BCM+03, CGGC+16, MSP+24, VSS+13, IKY+10]. **simulators** [AHB+16]. **Simultaneous** [ABAS87, DTL+21, TNLP13]. **Single** [BCJ01, OY22, TR17]. **Singular** [Ber92]. **situ** [AAA+25, AGHR19, ARPY19, BCLP17, CAA+20, MFB+19, PDDI22, PBB+20]. **situation** [GCSK13]. **Six** [WOG95, KRR19]. **six-dimensional** [KRR19]. **SKA** [VFJ+15]. **skeletonisation** [BE17]. **Skeletonization** [DIB00]. **Skewers** [HC08]. **skinny**

[EHTW21]. **SLA** [QH08]. **SLATE** [GAA+25]. **slicing** [LCT+24]. **Slouching** [Lus09a]. **small** [JMM+21, PUR94, WZH+20]. **Smart** [MBF+11, Gro03]. **sMC** [KPST18]. **Smith** [RGB+18]. **smooth** [LCD+24]. **Smoothed** [PGTS10, HF24]. **SOA** [DCL+08]. **SOA-Based** [DCL+08]. **Social** [NKR90, KTWL18]. **Sodium** [DQFW90]. **Soft** [AG18, GHHS15, RMS+18, YZC+15]. **Software** [ADMP18, Ano87c, Ano87f, BV11, BCC+01, BFNV07, CDP+94, Dar99, DW97, DE03, DBA+09, DBM+11, DGP+97, DJC05, Fol90a, GCD97, GKMT00, Her09, KS09b, LRO10, LQJG16, LDB+06, MM90, PPS09, PA11, PK04, SG09b, AGK+23, CYZ+20, CSC19, DTL19, ESD+22, GSND20, JDAD19, JdSA+17, JC12, KNPS21]. **Software-defined** [ADMP18, AGK+23, JDAD19]. **Soil** [CWHP99, MTW+22]. **soil-structure** [MTW+22]. **Solaris** [Ano01a]. **Solid** [DQFW90, SK92]. **Solidification** [MWC+05, SHK+18]. **Solution** [BHK+88, BDL+07, CGB+94, MR90, PRT90, RS03, uITH07, TMMR10, CSGM17, CCBS11, CvG11, CMN12, ESW+12, MEK+19, RDG12]. **Solutions** [Fro91, WD19, WD24]. **Solve** [BCCL09, CDH+93, CDL20]. **Solved** [CSV91]. **Solver** [BGG05, BH99, CM97, HR97, KDL01, Mav02, PR95, AKP+18, AFL+18, BSW+14, BHL+24, CDL20, CHT+19, CGBL25, EKF+19, ESW+12, HHSM19, KTP+24, KC18, KRR19, KDH18, MV20, OGM+16, RMV+19, RWM17, SO23, YJZN22, ZZG+14, dFRD+23]. **Solvers** [DR06, GGS01, Key09, KR11, ATL+15, EAG+19, FMR+20, IGA24, MSHPV18, MSKM21, NCA21, RTRZ22, WKLW21]. **solves** [SZ11]. **Solving** [BS88, BEF+95, CD97, HT04b, IIJ93, KS89, Kum89, Man97, NZ93, SBF90, WT99, Ade21, ALE+20, MY24, ML20]. **Some** [Gir02, PPS09]. **Sometimes** [RAGW93]. **Sonic** [WW92]. **Sorting** [Arn07, BSK14]. **sound** [MJGL13]. **Source** [CYT+02, BSW+14, MJGL13]. **sources** [PBB+20]. **Sowing** [GL97]. **Space** [FBBC03, JSSZ09, MHW15, ODD07, SBG10, DTL+21, FU12, HLW+16, MPD+12]. **space-aware** [HLW+16]. **space-parallelism** [DTL+21]. **Spaceborne** [SKB01]. **SPAI** [BBS99, Ma00]. **spanning** [dAVCM+19]. **spare** [HYH+20]. **Spark** [KWEF18]. **Sparse** [AD93, Ano02a, AGL+87, BJWS20, Ber92, BELF07, Cho01, GG11, HR97, IYV04, KC92a, KC92b, MC90, Ma00, Man97, MCG04, SZ11, SCFK04, UF89, WT99, ASHH16, ATD17, BDC21, BHL+24, CGBL25, CvG11, GG14, GGO16, MSHPV18, ML20, MGFP20, SCR11, TQOA23, WWC+24]. **Sparsity** [Cho01, IYV04]. **spatial** [FFZ+23, SPHW18, WDH+15]. **Spatially** [WBG06]. **Spatially-Explicit** [WBG06]. **spatio** [STP+13]. **spatio-temporal** [STP+13]. **spawning** [MÁAC+24]. **Special** [Ano22b, BV11, BM13, BH17, BQOS21, BE18, Cec20, CKE08, DT97, DT99, DT06, DT13, DT17, DT19, DT23, HdV18, KM20, MPI98, Mas19, MFB+19, ME14, Nag93, OV13, Par23, PA11, WH20, WD19, WD21, WD24, Yel04, dS21, SDS12]. **Special-Purpose** [CKE08]. **specialization** [CBM13]. **specialized** [EB23]. **Species** [BB02]. **Specific** [BH06, CDH+97b, PHF21]. **Spectral** [BG00, CB95, DFS+05, FSN08, Tho90, DEE+12, EAG+19, MGS+15, WZH+20, ZB20]. **spectrum** [LCT+24]. **Speed** [Ano87d, BAM+16, Mar87a]. **Spherical** [KMPJ08]. **spike** [CDG+21]. **spiking** [VDF+23]. **Spiral** [PMS+04]. **Spline** [Fro91]. **Splines** [uITH07]. **Splitting** [IS96]. **Splotch** [DGRK17]. **SpMV** [BJWS20, DEQO21]. **Sponsored** [Sal87]. **Spotlight** [MPG93]. **Spread** [GKB93]. **SRP** [MJGL13]. **SSOR** [Ma00]. **Stability**

[ACG+90, BE07, FWZ91, KdOCR+20]. **stabilized** [IGA24]. **Stacking** [BBR10]. **Standard** [Ano94b, Don02a, Don02b, MPI98, BBB+24, MSKM21, THH+13, Poz97]. **Standards** [Pan92]. **Stanimire** [Ano24]. **StarPU** [HGWN14]. **stars** [HLH+19]. **StarSs** [PBAL09]. **State** [CBV97, DKMT18, KNPS21, MYCR06, WLC91]. **State-of-art** [KNPS21]. **Static** [BLRR01, BR03, dRADS+18b, QSX+20, SCB14, TR17]. **Stationary** [SCFK04]. **Statistical** [EGMP93, EJD+19, FWSW02, Her88, MR04, NRR97, VDB04, ZM07, UBK+23]. **Status** [MB87]. **Steady** [MYCR06]. **Steady-State** [MYCR06]. **steer** [WPHS+25]. **Steering** [GKP97, KWB06, VR00]. **Stefan** [CSV91]. **stellar** [HCC+22]. **Stencil** [HCCG20, APD+15, PHF21, WKLW19, YFS+14]. **stencil-based** [WKLW19]. **stencil-reduce** [APD+15]. **stencils** [SB19]. **step** [BGO20]. **stepping** [BSS15]. **Stiff** [BCCL09]. **Stochastic** [AK93, ABAS87, LP10, NZ93, CCRV20]. **Stokes** [Mav02, SBF90, ZZG+14]. **Storage** [KR11, GG14]. **store** [KV19, KES+17]. **Storm** [WJS+90]. **Strategies** [BCM+03, FBBC03, GWKN08, MOK00, WPBB01, EMP+18, HCCG20, MRD+15, OPW+12, SCD+19, SIC+19, SDF+17, SKSG19]. **Strategy** [JPV23, MCW+00, SVN09]. **stratified** [AMC+18]. **stream** [BLC17, DKMT18, LBB17]. **streamed** [GG14]. **streaming** [BRGR11, MAB+13]. **stresses** [PLJD24]. **Strong** [MKM+19, INY+14]. **strongly** [ZZG+14]. **Structural** [YCHH90, MJD16, PUR94]. **Structure** [BH06, CGB+94, CBL10, CSY10, FWZ91, Jon92, KT99, Liu90, SCB+95, SYF96, TMW+99, HTD+14, HIT+14, HLK+23, KC18, LDLD19, LD24, MTW+22, SKE+23]. **Structure-Specific** [BH06]. **Structured** [LDGR03, Ma00, SR05, WBG06, Ytt97, GDM+23, LAZ+24, LNR+24, RV15, ZMG+21]. **Structures** [BHK+88, DFC90, FFR+10, GCL93, GG11, HB90, HA91, JP93, DSH+16, EMP+18, JKBW18]. **Studies** [CHT+19, CBW95, DQFW90, HOPB92, HE01, LS06, SABK94, BCYS11, GDKWS15, LDLD19, SSR+14, PB19]. **Study** [ASW91, BF01, CDH+97b, DJJ+19, GLGLB+11, GL97, HL10, HLS+17, JW06, KKCB98, KR94, KR95, LC90, MMD98, PPK+04, Sci92, TXD+07, WGI90, WLB92, WJS+90, WW92, BSW+14, BDFVP15, CGGC+16, CMS+11, DTL19, IFA15, IMB+19, IGBBR23, KC18, LFB+15, MBvdG13, MCR+17, OF17, RTRZ22, RRJ+20, SMK+20, TKA+17, THC+11, WZH+20, YWL+14]. **Studying** [BCM+03, BOD+91, VIKM+22]. **subband** [VSS+13]. **subcellular** [CHW+15]. **Subdomains** [FG97, SO23]. **Subgrid** [GS05]. **Subprograms** [Don02a, Don02b]. **Subroutines** [KJH96, JO92]. **Subsetting** [ZRÇ+06, AMC+18]. **substitution** [DTDP14]. **substructures** [SCR11]. **successful** [CBA+18]. **Suggestions** [Ano02r, Ano02s]. **suite** [WHGT22]. **Summary** [Moh09, Sal87]. **Summations** [NDMR20]. **Summit** [Ano22a, NBE+22]. **SUNDIALS** [BDE+25]. **Sunway** [WZH+20]. **Supercluster** [HBC+08]. **Supercomputer** [ATD+88, Ano87b, Ano91b, Ano91a, Ano92g, Ano92e, Ano92f, Ano93a, Ano94a, Ano94c, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, BBW90, CL95, CLP+99, Con88, MKG90, Mai87, McN89, MM90, MA89, Mir90, Mor89a, MR90, Nas92, Sci92, SB04, Web91, WOG95, AGK+23, Ano22a, BHZ+23, BCP+20, Bra91, FU12, KMH+14, NBE+22, SDI+19, Duk91, MAB07, Mar88a]. **Supercomputering** [OCC+08]. **Supercomputers** [Ald89, ABF+99, AGL+87, Bai88, BSBF89,

BCK+89, BWB+10, BYT91, Bro88, CDD+90, DDM87, Gen88, Mar89a, McN89, MG87, NKiN+08, YM91, ZC92, DCD+13, EM23, HI12, HI13, IH15, PH91, SLL+19, WET+19, ZBMK11, Gen88, Bus87, Mar87b]. **Supercomputing** [All88, Blo87, DFP+96, EM89, Eri88, Gan88, GKN+96, LC90, Mar89b, McN87, MMS88, Nas92, NBB+96, Nun87, RS88, SABK94, Aus92, BBB+91b, Bra91, BBW90, KT94, MP95, TR92, All88]. **Superconductors** [JP93]. **SuperLU**$_D IST$[**BHL+24**].**Supersonic**[**MYC92, Aus20**]. **Tech** [**HCM+14, Mar87b, RES87, Haj93, PUR94**]. **Thelma** [**OKTR11**]. **Theme** [**Hau94**]. **Theoretic** [**FWSW02, WEPB12**]. **Theoretical** [**ASW91, OY22**]. **Theory** [**BR03, Mer87, Mor89a**]. **Thermochemical** [**vLRA+03**]. **Thermodynamics** [**GKH+91**]. **Thin** [**MD99, GSK+15**]. **Thin-Film** [**MD99**]. **Thinning** [**DIB00**]. **third** [**PFGDM20, Lee03**]. **third-order** [**PFGDM20**]. **thousands** [**GHHS15**]. **Threaded** [**BBG+10, LVA+13**]. **threads** [**CLVYC+24, DJJ+19**]. **Three** [**BCZM07, BWB+10, CSY10, DD91, EGG05, LT90, MT89, TWK87, BE17, CRS+19, LSS93, PLJD24, YFS+14**]. **Three-Dimensional** [**BCZM07, CSY10, EGG05, LT90, MT89, BE17, LSS93, PLJD24, YFS+14**]. **three-phase** [**CRS+19**]. **Throughput** [**GHM+10, McN89, AGHR19, CMN12, GVR+21**]. **throughput-oriented** [**CMN12**]. **Tianhe** [**CLM+16, HXW+13, LYL+16**]. **Tianhe-1A** [**HXW+13**]. **Tianhe-2** [**CLM+16, LYL+16**]. **tightly** [**NOM+19**]. **tiled** [**TRS13**]. **Tiling** [**SCFK04**]. **Time** [**ACD07, BPBL11, KK01, LJC+10, MBF+11, Nak99, NRR97, Sim90, VR00, Wri12, BE17, BDE+25, BDC21, BSS15, BCH+23, DTL+21, LST15, MJGL13, QHCC17, QAL+23, QAL+23, STP+13, WDH+15**]. **tensor** [**HPS+22, LM23, ŚCKW19, OY22**]. **tensor-product** [**ŚCKW19**]. **Teraflop** [**HLW00**]. **Teraflop-Scale** [**HLW00**]. **Teraflops** [**SS99, TAR+08**]. **TeraGrid** [**Har11**]. **Terapixel** [**ACF+11**]. **terminology** [**CAA+20**]. **Tesla** [**RTRZ22**]. **Testbed** [**BCC+06**]. **Testing** [**CDT05, KDL01**]. **Texas** [**Nas92**]. **texture** [**IMH+11, IMH+12**]. **Tflop** [**LYL+16**]. **Tflop/s** [**LYL+16**]. **Thanks** [**Aus20**]. **Then** [**HCM+14, Mar87b, RES87, Haj93, PUR94**]. **Thelma** [**OKTR11**]. **Theme** [**Hau94**]. **Theoretic** [**FWSW02, WEPB12**]. **Theoretical** [**ASW91, OY22**]. **Theory** [**BR03, Mer87, Mor89a**]. **Thermochemical** [**vLRA+03**]. **Thermodynamics** [**GKH+91**]. **Thin** [**MD99, GSK+15**]. **Thin-Film** [**MD99**]. **Thinning** [**DIB00**]. **third** [**PFGDM20, Lee03**]. **third-order** [**PFGDM20**]. **thousands** [**GHHS15**]. **Threaded** [**BBG+10, LVA+13**]. **threads** [**CLVYC+24, DJJ+19**]. **Three** [**BCZM07, BWB+10, CSY10, DD91, EGG05, LT90, MT89, TWK87, BE17, CRS+19, LSS93, PLJD24, YFS+14**]. **Three-Dimensional** [**BCZM07, CSY10, EGG05, LT90, MT89, BE17, LSS93, PLJD24, YFS+14**]. **three-phase** [**CRS+19**]. **Throughput** [**GHM+10, McN89, AGHR19, CMN12, GVR+21**]. **throughput-oriented** [**CMN12**]. **Tianhe** [**CLM+16, HXW+13, LYL+16**]. **Tianhe-1A** [**HXW+13**]. **Tianhe-2** [**CLM+16, LYL+16**]. **tightly** [**NOM+19**]. **tiled** [**TRS13**]. **Tiling** [**SCFK04**]. **Time** [**ACD07, BPBL11, KK01, LJC+10, MBF+11, Nak99, NRR97, Sim90, VR00, Wri12, BE17, BDE+25, BDC21, BSS15, BCH+23, DTL+21, LST15, MJGL13, QHCC17, QAL+23,**

WZHG17, YIME19, YJZN22]. Time-Dependent [MBF+11]. time-domain [YJZN22]. time-simultaneous [DTL+21]. time-stepping [BSS15]. times [MP95]. Tingxing [Ano24]. Tissues [BCZM07]. Titanium [YHG+07]. Tokamak [DSD+91, KPM+96]. Tolerance [Cap09, FGC+05, GKP97, GL04, JSSZ09, KWB06, BBA+21, LRG+16, MSHPV18, SKZ+18, SMZ+18, YZC+15]. Tolerant [BHK+06, FD04, WvNM+06, ASHH16]. tomographic [BGM15]. Tomography [CDH+97b, FFR+10, VBVD22]. Tomov [Ano24]. Too [RAGW93]. Tool [LRO10, WBFB04, Ytt97, Eri88, GPO+20, IMS16, SDI+19, TDM+17, UCZ+15]. Toolbox [CD06, RMV+19]. Toolkit [FK97, LJO05, Poz97, Pap11, JLO05, LJO05, NPT+06]. Tools [CBM13, DW97, DMT01, DT06, GRC08, LDB+06, MWC+05, MM90, Pan97, PA11, SS89, HMA+24, SKZ+18, WHGT22]. Toolset [NKP+00]. top [WET+19]. Top500 [Fei99]. topological [PHF21]. Topologies [MOK00, SW04]. Topology [Chu99, GJMV18, KPR17]. Topology-aware [GJMV18, KPR17]. toroidal [IMW+13]. Total [YCHH90, RMV+19]. Toys [SS99]. Trace [JKD+11, NRR97, BDFVP15]. Trace-based [JKD+11]. traces [LSES20]. tracing [PS12]. Tracking [BGF02, BG02, CYT+02, FIMU19, NSI20, RPdB+19]. Trade [SR05]. Trade-Off [SR05]. Traffic [BG02]. train [PNFC16]. Training [AM00, IGBBR23]. trait [WLG+18]. transcription [TGS+22]. Transfer [MAJJS03, ATL+15, KT94, LSLD23]. Transfers [VS03]. Transform [DL97, BDFVP15, GLGLB+11, LDW+12]. transformation [ABL+22, WDW+12]. Transformations [YCHH90, TGP19]. Transforms [KNP+87, MJ04]. Transition [YSN90]. Translations [KMPJ08]. transmission [ABH+18]. transparent [CIWI17]. Transport [ABF+99, DR06, DSD+91, KVY+90, MMD98, MWAR+87, MB87, BSH+16, DMSMG18, DFT+15, SSR+14]. traversal [FT19, GLZS14]. Tree [SWW94, FT19]. Trees [LK01, JCK21, KPST18, PB23, dAVCM+19]. Trends [Ano87e, Fol90a, Tho90, Bus87]. Triana [HTWS08]. triangle [PS12]. triangular [SZ11]. Tridiagonal [BS88, Kum89]. trillion [TSH+19, TAM+16]. trillion-atom [TSH+19]. Trondheim [Buz89]. Trough [BAM+16]. truly [KT94]. truncated [TQOA23]. TSP [WG07]. tsunami [AHB+16, BAM+16]. tumor [KKL+19]. tuned [WKLW21, YB12]. Tuning [Cza03, Kal09a, MJ04, RDG12, TM99, VDB04, Yel04, BH12, CH13, KFJ20, LCD+24, TRS13, THC+11, WZH+20]. Turbine [MKG90, KBY+19]. Turbulence [CDD+90, KPM+96, LWL05, KMJ+23, PGK+24]. Turbulent [CB95]. Turkey [BE07]. Turkish [BE07]. Turnaround [MP95]. Twenty [TSH+19]. TweTriS [TSH+19]. Two [HE01, Rao02, Hea15, HLH+19, KS89, KDH18]. two-dimensional [KS89]. Two-Paths [Rao02]. two-phase [KDH18]. TwoFold [HLK+23]. Type [CK01, FU12, JP93]. Type-II [JP93]. typical [FU12].

U.S. [Fem90, Kit90]. UK [HT04a]. Ultra [WOS08, BLU+22, DVW+12, HIT+14]. Ultra-High [WOS08, BLU+22]. ultra-high-resolution [DVW+12]. ultra-large-scale [HIT+14]. ultrafast [EEL15]. Ultrascale [NKiN+08].

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