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## Title word cross-reference

#COVIDisAirborne [DCK<sup>+</sup>23].

2 [VSS<sup>+</sup>13, Wal18]. 256<sup>4</sup> [IKY<sup>+</sup>10]. 3  
[AKW19, ARR99, BGM15, CSGM17,  
FIMU19, GGS01, HSLK11, KC18, PR95,  
SSCF19, THL88]. 2 [AMC<sup>+</sup>18]. 3 [KPST18].  
 $\alpha$  [TKSK88].  $\mathcal{H}^2$  [MY24].  $d = 2$  [BRT<sup>+</sup>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<sup>+</sup>15].  $M \times N$   
[BYCB05, DP05, JLO05].  $N$  [HJ96, SWW94,  
DAB<sup>+</sup>12, FT19, RTRG<sup>+</sup>07, INS<sup>+</sup>20].  $\star$   
[NC18].

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

**0th** [RAGW93].

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

**2**

[BGB<sup>+</sup>22, CL95, CC95, CNW<sup>+</sup>23, CLM<sup>+</sup>16, DD89, DD91, DCK<sup>+</sup>23, GCL93, HGMW12, LT90, LYL<sup>+</sup>16, Mor89a, ZBH<sup>+</sup>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<sup>+</sup>13]. **4d** [EM23].

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

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

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

**90** [DL97].

**A&M** [Nas92]. **A-grid** [MYG23]. **ab-initio** [SKE<sup>+</sup>23]. **Abisko** [VDF<sup>+</sup>23]. **abstraction** [MFOAGE18]. **accelerate** [CNR<sup>+</sup>24, GLZS14]. **Accelerated** [ELEB21, FFZ<sup>+</sup>23, ABC<sup>+</sup>24, AWWG19, BLU<sup>+</sup>22, CSGM17, CMMW23, CGBL25, GDKWS15, IJB22, KNPS21, NOM<sup>+</sup>19, RDG12, RWM17, SFLC18, SE12, TRS13]. **Accelerating** [AJ24, BHZ<sup>+</sup>23, CLG13,

HPS<sup>+</sup>22, JDD18, KPST18, LDLD19, MPD<sup>+</sup>12, VOL<sup>+</sup>14, WZH<sup>+</sup>20, CAE<sup>+</sup>13, JCK21, MP18, VBVD22, YFS<sup>+</sup>14].

### Acceleration

[AGC<sup>+</sup>19, ATL<sup>+</sup>15, CKE08, SO23, ŠCKW19, CLBS17, KDO16, LQJG16, MGS<sup>+</sup>15, PKC23, SDF<sup>+</sup>17, SSCF19, VSW<sup>+</sup>22, VMPW20].

**accelerator** [LCT<sup>+</sup>24, RMV<sup>+</sup>19, RTRZ22].

**accelerators** [Ano24, HDL<sup>+</sup>15, MCU<sup>+</sup>13, MFOAGE18, NOM<sup>+</sup>19].

**accelerators/InfiniBand** [NOM<sup>+</sup>19].

**Access** [Bri10, KR11, NTKP06, WHL03, DKMT18, DCN17, HGMW12, Wa18].

**Accessing** [HLP<sup>+</sup>03]. **Accuracy**

[HCCG20, OY22, SK20]. **Accurate** [LR09, LRO10, TMWS91, VFD04, HLK<sup>+</sup>23, LCT<sup>+</sup>24, WSD<sup>+</sup>14]. **Acknowledgments**

[Ano02c, Ano02d]. **Acoustic**

[GKN<sup>+</sup>96, MBF<sup>+</sup>11, ALE<sup>+</sup>20]. **acoustics**

[MSP<sup>+</sup>24]. **Across** [KS05, SB19]. **ACS**

[Mar88a]. **Action**

[DBA<sup>+</sup>09, Num04, TGS<sup>+</sup>22]. **Active**

[Her91]. **Activity** [CY08]. **ACTS** [DT06].

**acute** [TGS<sup>+</sup>22]. **Ad**

[BG02, CHZ02, IBC<sup>+</sup>10, TNBG07]. **Ad-Hoc** [IBC<sup>+</sup>10]. **Ada** [Kok88]. **adaptation**

[DCLS19, RHK21]. **Adapted** [PMS<sup>+</sup>04].

**Adapteva** [VEMR17]. **Adapting** [DE03].

**Adaptive** [AH93, CKPD99, CW05,

EDSV06, FSC<sup>+</sup>11, HT04b, HRW19, JSSZ09, Kal09b, RV15, SR05, TRS13, VR00, Wri12, dRADDS<sup>+</sup>18a, GDM<sup>+</sup>23, IJB22, KBY<sup>+</sup>19, LST15, LPB<sup>+</sup>16, LSLR<sup>+</sup>20, LNR<sup>+</sup>24, ZMG<sup>+</sup>21, dFRD<sup>+</sup>23, FSC<sup>+</sup>11].

**Adaptive-CoMPI** [FSC<sup>+</sup>11]. **adaptively**

[Sta19]. **Additive** [PR95, MK24, TBB<sup>+</sup>22].

**Address** [MHW15, SBG10, CLVYC<sup>+</sup>24].

**Addressing** [SWA<sup>+</sup>14]. **adjoint** [YWL<sup>+</sup>14].

**adjoint-based** [YWL<sup>+</sup>14].

**Administration** [SDA<sup>+</sup>01]. **Adsorption**

[CH94]. **Advanced** [Ano87a, MA15, OMDS23, TC10, WH20, Don89]. **Advances** [KKDV03, KKD05, LK10, NPT<sup>+</sup>06, PALG<sup>+</sup>25, BC14]. **Advisor** [GVF<sup>+</sup>18].

**Aerodynamics** [YM91]. **aeromechanical** [PLJD24]. **aerosol** [ABL<sup>+</sup>22, DCK<sup>+</sup>23]. **Aerospace** [MAB07]. **affine** [RCAE<sup>+</sup>20]. **affinity** [HLK<sup>+</sup>23]. **against** [ABL<sup>+</sup>22, LWL<sup>+</sup>23, SFLC18]. **Agenda** [Ano87b]. **agent** [BCH<sup>+</sup>23, WDH<sup>+</sup>15]. **agent-based** [BCH<sup>+</sup>23]. **Agents** [QWIC02]. **Aggregation** [ZRC<sup>+</sup>06, AMC<sup>+</sup>18, WVL<sup>+</sup>16]. **agricultural** [SH93]. **ahead** [CNW<sup>+</sup>23]. **AI** [CDG<sup>+</sup>21, CNW<sup>+</sup>23, DCK<sup>+</sup>23, TGS<sup>+</sup>22, WHGT22]. **AI-based** [WHGT22]. **AI-driven** [CDG<sup>+</sup>21, TGS<sup>+</sup>22]. **AI-enabled** [DCK<sup>+</sup>23]. **AI4IO** [WHGT22]. **Aided** [MM90]. **aircraft** [GDS17]. **AIX** [Ano01a]. **Alamos** [BBB<sup>+</sup>91b, Bus87]. **Albany** [DWT<sup>+</sup>19]. **Albedo** [Tho90]. **Algebra** [CDQS04, CDP<sup>+</sup>94, Don02a, Don02b, Ede93, GJMS88, JO92, KJH96, MA15, PB19, Poz97, AAB<sup>+</sup>21a, ATD17, FTB13, AAT<sup>+</sup>20, GAA<sup>+</sup>25, LRLG19, MBvdG13]. **algebraic** [BGO20, HLRK24]. **Algorithm** [AH93, AEPR92, ARR99, BCCL09, Bai88, BMT89, CBW95, CBV97, DIB00, GJMS88, GCD97, HA91, HT04b, IIJ93, JL89, KVY<sup>+</sup>90, KC92a, KC92b, LP10, LRBS89, LJC<sup>+</sup>10, Mar87a, Mor89a, SCB<sup>+</sup>95, Sta19, SD87, TRS<sup>+</sup>10, UF89, WCE95, ABH<sup>+</sup>18, AAA<sup>+</sup>22, AHB<sup>+</sup>16, BGM15, DSH<sup>+</sup>16, GHL15, HLZ<sup>+</sup>20, INS<sup>+</sup>20, KWEF18, LSLR<sup>+</sup>20, MJGL13, NMAE13, NS21, PH19, RPdB<sup>+</sup>19, UZM<sup>+</sup>14, WWC<sup>+</sup>24, YZC<sup>+</sup>15, YB12, ZWS21]. **Algorithm-based** [Sta19, YZC<sup>+</sup>15]. **algorithmic** [HHS19]. **Algorithms** [AM00, BG02, Cha88, CDT05, CAK<sup>+</sup>07, Fro91, GD09, GKMT00, HdV18, KLJ87, MS09, MPS15, NK89, NZ93, PMS<sup>+</sup>04, RRV06, SC04a, Sha88, Wad99, CGW19, Cec20, CdVL<sup>+</sup>18, CSC19, ESW<sup>+</sup>12, FTB13, LRLG19, NC18, QSX<sup>+</sup>20, dAVCM<sup>+</sup>19, McR87]. **aligned** [RWM17]. **aligner** [IMB<sup>+</sup>19]. **Alinea** [MA15]. **All-Gather** [TRS<sup>+</sup>10]. **all-reduce** [CGW19]. **All-to-All** [BJ92]. **Alliant** [DD91]. **Allocation** [AAF<sup>+</sup>01, FBBC03, WPBB01, YB07, Jea13, MRD<sup>+</sup>15, SPNB14]. **Alpha** [KHP<sup>+</sup>04]. **ALPINE** [AAA<sup>+</sup>25]. **Alps** [AGK<sup>+</sup>23]. **Altera** [RGB<sup>+</sup>18]. **Alternative** [SWHP05]. **Amazon** [Pap11]. **AMBLE** [HBSP08]. **AMD** [KNPS21]. **Amdahl** [ABD<sup>+</sup>18, HE01]. **amines** [PUR94]. **ammonium** [PUR94]. **Amplitude** [BGK<sup>+</sup>90]. **AMR** [RV15, SZC12]. **AMReX** [MZA<sup>+</sup>24, ZMG<sup>+</sup>21]. **analogs** [PUR94]. **Analysis** [ACD07, BBC<sup>+</sup>00, Del93, DH96, DF08, EGMP93, Eyr06, GHM<sup>+</sup>10, GNB11, HVWS09, HVS09, HLW00, IMW<sup>+</sup>13, IHMM87, Ish91, LM03, LWL05, MB87, Mic09, RS03, SSQ08, SCB<sup>+</sup>95, SE92, SC09, SGFC09, SBG10, SBBS06, THDC09, WBFB04, YRA<sup>+</sup>02, ZRC<sup>+</sup>06, AAB<sup>+</sup>24a, AAA<sup>+</sup>25, dRAD<sup>+</sup>18b, BBDH14, BCLP17, CAA<sup>+</sup>20, CHWS20, DWT<sup>+</sup>19, EAG<sup>+</sup>19, FIMU19, FAB<sup>+</sup>21, GKR<sup>+</sup>22, GPO<sup>+</sup>20, IMH<sup>+</sup>11, IMH<sup>+</sup>12, JKD<sup>+</sup>11, JDAD19, LH18, LSES20, LRLG19, MPD<sup>+</sup>12, MP18, MCR<sup>+</sup>17, MJD16, MRD<sup>+</sup>15, PLJD24, PB23, PF16, RDPK22, STP<sup>+</sup>13, SDJ17, TKA<sup>+</sup>17, TDM<sup>+</sup>17, LS90]. **Analytic** [CHWS20, MA89, THDS19]. **Analytical** [FFR<sup>+</sup>10, HPA<sup>+</sup>22]. **analytics** [AGHR19]. **Analyze** [KKCB98]. **Analyzers** [Ano01a]. **Analyzing** [BRU05, NC18, UZM<sup>+</sup>14, WPBB01]. **Anatomy** [FKT01, KWEF18, YFH<sup>+</sup>96]. **Andabyss** [Spr06]. **Angara** [SDI<sup>+</sup>19]. **Animal** [UB95]. **animated** [LSS93]. **Animation** [SS89]. **anisotropic** [DCLS19]. **Annex** [Ano02f, Ano02h, Ano02g, Ano02i, Ano02j, Ano02e]. **Announcements** [Ano92a, Ano92b, Ano92c, Ano92d]. **anomalies** [JRP<sup>+</sup>23]. **Aperture** [MPG93, ZCZ<sup>+</sup>13, SVBP13]. **API** [BH00]. **Appendix** [Ano01a, Ano02f]. **Appendices** [Ano01a]. **Appl** [Ano24]. **AppLeS** [SBWS99]. **applicability** [WKLW19].

## Application

[AS00, Bar09, BKRSR09, BCC<sup>+01</sup>, BWB<sup>+10</sup>, BPK<sup>+07</sup>, BB02, CWG09, DW97, DFMD94, FTB13, FSC<sup>+11</sup>, GHM<sup>+10</sup>, GHZ10, Kal09a, KKCB98, KS09a, MSHPV18, Mic09, MS95, NKR90, OCC<sup>+08</sup>, PPK09, PHC<sup>+10</sup>, SC09, TM99, TKA<sup>+17</sup>, AAB<sup>+24a</sup>, AKW19, CMS<sup>+11</sup>, CSC24, DEL<sup>+12</sup>, DBD<sup>+23</sup>, ESD<sup>+22</sup>, GVF<sup>+18</sup>, MPB<sup>+22</sup>, MCR<sup>+17</sup>, Ozs16, SHK<sup>+18</sup>, VSW<sup>+22</sup>, WD21].

**Application-based** [MSHPV18].  
**application-level** [DEL<sup>+12</sup>].

**Application-tailored** [FTB13].

**Applications** [AGR<sup>+03</sup>, Ano91b, Ano92g, Ano92e, Ano92f, Ano93a, Ano94a, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, BGG05, BP01, BDP01, BV11, BM12, BM13, BBT23, BBH<sup>+06</sup>, BRU05, BJ92, BJK07, Bus87, CBL10, Cot04, Cza03, Dar99, Dee10, DH96, DE03, FGC<sup>+05</sup>, Fra05, GKP97, GMLP08, GG14, HT04a, HLW00, HRM89, JMC05, KBA00, Key09, KUE<sup>+00</sup>, LDGR03, Lee03, LM03, KLCCW07, MKG90, MYCR06, Mar87a, MAB07, ME14, MYC92, Mor89b, NFK98, NPT<sup>+06</sup>, RBMF87, SC04b, SSNM92, SVN09, SBG10, SKC10, TXD<sup>+07</sup>, TLG98, TAR<sup>+08</sup>, Wal03, WWA<sup>+11</sup>, WBFB04, ZOF90, dSSB<sup>+08</sup>, AAB<sup>+21b</sup>, Akb24, ASHH16, Ano94c, dRADST<sup>+18b</sup>, ABD<sup>+18</sup>, AGHR19, BH17, BDE<sup>+25</sup>, BRGR11, BPR18, BSW<sup>+14</sup>, BEK<sup>+18</sup>, BGB<sup>+18</sup>, BHC<sup>+25</sup>, BTZ<sup>+25</sup>, BGI<sup>+25</sup>, BG11, CSS24, CDRV15, CSC24, CRS<sup>+19</sup>, CBD<sup>+17</sup>, CNR<sup>+24</sup>, DAB<sup>+12</sup>, DMQS12]. **applications** [ECG<sup>+13</sup>, EJD<sup>+19</sup>, GCSK13, HGWN14, IMB<sup>+19</sup>, JRT16, KPR17, LRG<sup>+16</sup>, Lap22, LSES20, LWT<sup>+11</sup>, LCD<sup>+24</sup>, MGB12, MFB<sup>+19</sup>, MCR<sup>+17</sup>, MDH<sup>+18</sup>, MCU<sup>+13</sup>, MBF<sup>+21</sup>, PH91, PNFC16, PALG<sup>+25</sup>, RV15, RSCC<sup>+24</sup>, SDJ17, SKZ<sup>+18</sup>, SIC<sup>+19</sup>, SLG95, SMZ<sup>+18</sup>, TM23, TNLP13, THC<sup>+11</sup>, TNCC21, UZM<sup>+14</sup>, VMPW20, WDW<sup>+12</sup>, WD19, WD24, ZMG<sup>+21</sup>, ZKS<sup>+24</sup>, Ano98b, Ano99, OMDS23, Ano91a, Ano98a, Ano00,

Ano01b]. **Applications-**

[Ano91b, Ano92e, Ano92f, Ano93a].

**Applications-Information** [Ano92g].

**Applied** [vLRA<sup>+03</sup>, BE17, IKMS<sup>+19</sup>, MÁAC<sup>+24</sup>, MPB<sup>+22</sup>]. **Applying**

[Dem90, LDGR03, LSES20, MBHF15].

**Approach** [BYCB05, DZ07, FBW<sup>+87</sup>, KS09b, LDB<sup>+06</sup>, NTKP06, Sha88, uITH07, Spr06, DCM<sup>+17</sup>, FTB13, GS18, HLC<sup>+19</sup>, HGWN14, IGDQO19, KBY<sup>+19</sup>, MGB12, MP18, MJD16, PNFC16, ZB20].

**Approaches** [SWHP05, MJGL13, VSW<sup>+22</sup>].

**Approximate** [Cho01, HFV<sup>+12</sup>, MGFP20].

**Approximation** [DGJ09, LSLR<sup>+20</sup>].

**Aqueous** [PRT90]. **ArborX** [PALG<sup>+25</sup>].

**Architectural** [Gro03, TXD<sup>+07</sup>].

**Architecture**

[BAA<sup>+06</sup>, Hua03, HWP03, Ish91, KBA00, KFM<sup>+10</sup>, SC04b, BHZ<sup>+23</sup>, BHC<sup>+25</sup>, HCCG20, MMA19, RHK21, VDF<sup>+23</sup>].

**Architectures**

[BFLL99, GD09, HD05, HdV18, HLW00, HSLK11, MS02, RW03, RS03, SSQ08, ABC<sup>+24</sup>, AKC<sup>+19</sup>, BSK14, AAT<sup>+20</sup>, GGMJF<sup>+20</sup>, HFV<sup>+12</sup>, IMH<sup>+11</sup>, IMH<sup>+12</sup>, INS<sup>+20</sup>, JO92, KILL13, LNSMMA15, PB23, STP<sup>+13</sup>, Udd17, VOL<sup>+14</sup>, YFS<sup>+14</sup>]. **Area** [DFP<sup>+96</sup>, MYCR06, MAJJS03, NBB<sup>+96</sup>, Ade21, Rad18]. **Argonne** [Don89]. **ARION** [HLP<sup>+03</sup>]. **Arising** [Ma00]. **Arithmetic** [BSBF89, Gro03, AAB<sup>+21a</sup>, LH19].

**ARMCI** [NTKP06]. **Army** [Aus92]. **Array** [BBDR95, CYT<sup>+02</sup>, JO92, LHD<sup>+25</sup>].

**Arrays**

[HC08, NPT<sup>+06</sup>, CBD<sup>+17</sup>, DFT<sup>+15</sup>, Wal18].

**Arrival** [Wit92]. **art** [KNPS21]. **Artificial**

[Ano87d, WPHS<sup>+25</sup>, YIME19]. **ASCI**

[PK04]. **Aspects** [RW03, ZOF90]. **Aspen**

[SVBP13]. **Assessing**

[ACM88, MWC<sup>+05</sup>, TDG<sup>+19</sup>]. **Assessment**

[ZOF90, ABL<sup>+22</sup>]. **assimilation**

[DBD<sup>+23</sup>, FR22]. **Assist** [BB02].

**association** [GDKWS15]. **assuring**

[IGA24]. **astronomy** [CLG13, VFJ<sup>+15</sup>].

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

**B** [Ano02h, Ano01a, Ano02g]. **B.E.** [BPBL11]. **Babel** [EKD<sup>+</sup>12]. **Back** [BPBL11, BIC<sup>+</sup>10, BBD<sup>+</sup>17]. **Balance** [BG09]. **Balanced** [BFNV07]. **Balancing** [GS05, GLGLB<sup>+</sup>11, SK20, ZBMK11]. **Band** [Tho90]. **Banded** [Ano02k]. **bandwidth** [CIWI17]. **Barnes** [INS<sup>+</sup>20]. **barotropic** [KTP<sup>+</sup>24]. **barrier** [SKE<sup>+</sup>23]. **Based** [AM00, CY08, CLP<sup>+</sup>99, DCL<sup>+</sup>08, FSC<sup>+</sup>11, GGS01, GRC08, Gro03, Gus04, Hua03, Key09, MWM<sup>+</sup>08, Nak99, Num04, PGTS10, PPK09, PBAL09, QH08, SG07, TCW06, TC10, VDB04, WPBB01, dS21, Akb24, Ano24, ATL<sup>+</sup>15, BHZ<sup>+</sup>23, BGM15, BE17, BEW16, BCH<sup>+</sup>23, BHC<sup>+</sup>25, BAP<sup>+</sup>12, CDL20, CBM13, CHT<sup>+</sup>19, CZR<sup>+</sup>11, CNW<sup>+</sup>23, CCBL18, DSH<sup>+</sup>16, DAB<sup>+</sup>12, EDB19, ELEB21, FTB13, FR22, GSA<sup>+</sup>19, GDS17, HTD<sup>+</sup>14, HDL<sup>+</sup>15, HLP<sup>+</sup>03, JKD<sup>+</sup>11, JDD18, JKBW18, JCK21, LM03, LWL<sup>+</sup>23, LSLD23, MGB12, MSHPV18, MJGL13, ML20, NC18, PSV<sup>+</sup>16, PGK<sup>+</sup>24, STP<sup>+</sup>13, Sta19, SDI<sup>+</sup>19, SPNB14, TR17, TPG<sup>+</sup>18, WKLW19, WKLW21, WZHG17, WHGT22, YZC<sup>+</sup>15, YWL<sup>+</sup>14, ZZG<sup>+</sup>14]. **Basic** [Gir02, JO92, KJH96, Don02a, Don02b]. **basis** [AAG<sup>+</sup>23, EKF<sup>+</sup>19, LDLD19, LCT<sup>+</sup>24]. **Batched** [BHL<sup>+</sup>24, HDL<sup>+</sup>15, Ano24]. **Bay** [WLVL<sup>+</sup>96]. **Bayesian** [KPST18, LCD<sup>+</sup>24]. **BDDC** [SO23]. **Beambeam3D** [SSQ08]. **Beamforming** [CYT<sup>+</sup>02]. **Bearing** [FFNP97]. **Behavior** [AK93, BHZ<sup>+</sup>23, DCN17]. **behaviour** [CHT<sup>+</sup>19]. **Bell** [dS21]. **BenchFriend** [CS14]. **Benchmark** [DL09, HC10, CMMW23, DHL16, NMI<sup>+</sup>19, PSV<sup>+</sup>16, PF16]. **Benchmarking** [BRT<sup>+</sup>92, HBC<sup>+</sup>08]. **Benchmarks** [BCK<sup>+</sup>89, Gus04, McN89, MSK92, SGFC09, WGI90, WOG95, WG07, BWB<sup>+</sup>10, CS14, BBB<sup>+</sup>91a]. **benefit** [WLHF16]. **Benefits** [ACM88]. **Beowulf** [SS99]. **Bergen** [Gaf88]. **Best** [BPBL11, Lee03]. **better** [DCD<sup>+</sup>13, GGO16, SZ11, TGP19]. **between** [CSC24, SKS<sup>+</sup>13]. **Beyond** [Hab90, Mar89b, SBF90, SPHW18, INY<sup>+</sup>14, MZA<sup>+</sup>24]. **bi** [IGA24]. **bi-conjugate** [IGA24]. **Big** [AMB<sup>+</sup>18, YIN<sup>+</sup>11, CCBL18, Akb24]. **Biggest** [Ste09a]. **Bill** [Bus87]. **billions**

- [HLH<sup>+</sup>19]. **Binary** [DIB00, LK01]. **Biofluid** [RKKC90]. **Bioinformatic** [GHM<sup>+</sup>10]. **Bioinformatics** [TXD<sup>+</sup>07, Cec20, MCR<sup>+</sup>17]. **Biological** [FFR<sup>+</sup>10, WW92]. **Biology** [SSNM92, VRRL18]. **Biomedical** [KHK<sup>+</sup>09]. **Biomembranes** [SABK94]. **Black** [UBK<sup>+</sup>23, SK20]. **Black-box** [UBK<sup>+</sup>23, SK20]. **blade** [KBY<sup>+</sup>19]. **blade-resolved** [KBY<sup>+</sup>19]. **BLAS** [ABC<sup>+</sup>24, BG11, DD89, DD91, RSCC<sup>+</sup>24, Ano02h, Ano02k, Ano02b, Ano02a]. **Blast** [Don02a, Don02b]. **Block** [Arn07, BS88, ZMG<sup>+</sup>21, CGBL25, DEKV92, GDM<sup>+</sup>23, LAZ<sup>+</sup>24, MC21, RV15]. **Block-Sorting** [Arn07]. **Block-structured** [ZMG<sup>+</sup>21, GDM<sup>+</sup>23, LAZ<sup>+</sup>24, RV15]. **Blocked** [BELF07, LSLR<sup>+</sup>20]. **Blocks** [HC08]. **Bloom** [LGDH16]. **Blue** [GNB11, KMH<sup>+</sup>14, MAB<sup>+</sup>13, SSU<sup>+</sup>12, YIN<sup>+</sup>11]. **BlueGene** [dSSB<sup>+</sup>08]. **BlueGene/L** [dSSB<sup>+</sup>08]. **Board** [SPTT08]. **BOAST** [VPG<sup>+</sup>18]. **Body** [HJ96, Nak99, RTRG<sup>+</sup>07, SWW94, TMWS91, DAB<sup>+</sup>12, FT19, INS<sup>+</sup>20, VIKM<sup>+</sup>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<sup>+</sup>23]. **BPEL** [MWM<sup>+</sup>08]. **Breaking** [SKE<sup>+</sup>23]. **brick** [LPB<sup>+</sup>16]. **Bricks** [LAZ<sup>+</sup>24]. **Bridging** [SS99]. **Brink** [Spr06]. **broad** [Rad18]. **broad-area** [Rad18]. **Broadcast** [BJ92, YSP<sup>+</sup>05]. **Brownian** [NSI20]. **brownout** [PMP<sup>+</sup>20]. **BSC** [LAV09]. **BSP** [dAVCM<sup>+</sup>19]. **BSP/CGM** [dAVCM<sup>+</sup>19]. **budget** [CCRV20]. **buffer** [LBB17]. **Build** [CD06]. **Builder** [DL97]. **Building** [CDH<sup>+</sup>97b, FD04, LJO05, SKZ<sup>+</sup>18, SW04, Wit92, vLRA<sup>+</sup>03]. **Bulk** [DGP<sup>+</sup>97, MAJJS03, Jon12, WDW<sup>+</sup>12]. **bundle** [WVL<sup>+</sup>16]. **Butterfly** [Kum89]. **Buzbee** [Bus87]. **Byte** [WG07]. **C** [Ano02i, Ano02j, dRADS<sup>+</sup>18b, BLC17, CMMW23, DLVL<sup>+</sup>24, LJC<sup>+</sup>10, LNK22, MYG23, Poz97, TDM<sup>+</sup>17]. **C-grid** [MYG23]. **C/C** [DLVL<sup>+</sup>24]. **C90** [ABF<sup>+</sup>99]. **Cache** [BMWD87, BH06, GHM<sup>+</sup>10, MK24, SC04a, Wad99, ABD<sup>+</sup>18, ABG<sup>+</sup>19, CHT<sup>+</sup>19]. **Cache-Coherent** [Wad99]. **Cache-Efficient** [SC04a]. **cache-oblivious** [CHT<sup>+</sup>19]. **Cache-optimized** [MK24]. **cache-partitioned** [ABD<sup>+</sup>18, ABG<sup>+</sup>19]. **caches** [CSC19]. **Caching** [kLCCW07]. **Cactus** [AAF<sup>+</sup>01]. **Caffe** [MPB<sup>+</sup>22]. **calcium** [CHW<sup>+</sup>15]. **Calculation** [ACG<sup>+</sup>90, BGK<sup>+</sup>90, TMWS91, HIT<sup>+</sup>14]. **Calculational** [ZOF90]. **Calculations** [CDD<sup>+</sup>90, Gen88, Liu90, TMW<sup>+</sup>99, YCHH90, ZK93, CLM<sup>+</sup>16, HTD<sup>+</sup>14, LD24, QSX<sup>+</sup>20, SDI<sup>+</sup>19, TKS88]. **Calibrating** [ABH<sup>+</sup>18]. **Call** [DBA<sup>+</sup>09]. **Caltech** [Din91]. **Caltech/JPL** [Din91]. **CAM** [TD08, DEE<sup>+</sup>12, LMT<sup>+</sup>12]. **Campus** [GNLH97]. **Campus-Wide** [GNLH97]. **Can** [Pan97, VFJ<sup>+</sup>15]. **Canada** [Nun87]. **Cancers** [GKB93]. **Candidate** [MCS<sup>+</sup>06]. **Cane** [YWL<sup>+</sup>14]. **capabilities** [AAA<sup>+</sup>25, IMS16]. **Capability** [GS09, BBH<sup>+</sup>13, CYZ<sup>+</sup>20, DVW<sup>+</sup>12]. **capable** [RWM17]. **Capacity** [BL99]. **Carcinogens** [HB90]. **cardiac** [BSW<sup>+</sup>14]. **Cards** [Gro03]. **Carlo** [BEH<sup>+</sup>90, CH94, DFT<sup>+</sup>15, FSS13, LM03, LPB<sup>+</sup>16, MWAR<sup>+</sup>87, MB87, MFP<sup>+</sup>17, SABD13, SSSW91, SSR<sup>+</sup>14, VSS<sup>+</sup>13, ZK93]. **Carolina** [LC90]. **Case** [BF01, BDFVP15, CBW95, CDH<sup>+</sup>97b, GLGLB<sup>+</sup>11, GL97, HL10, HE01, HLP<sup>+</sup>03, MT89, PPK<sup>+</sup>04, SG09a, WGI90, WLB92,

WW92, BSW<sup>+14</sup>, CGGC<sup>+16</sup>, CMS<sup>+11</sup>, DTL19, GGMJF<sup>+20</sup>, IGA24, IMB<sup>+19</sup>, MBvdG13, MCR<sup>+17</sup>, OF17, TKA<sup>+17</sup>, THC<sup>+11</sup>, WZH<sup>+20</sup>, YWL<sup>+14</sup>]. **cases** [CDL<sup>+19</sup>]. **cat** [YIME19]. **cat-scale** [YIME19]. **CBVE** [WLVL<sup>+96</sup>]. **CCDSC** [DT13]. **CCGSC** [DT11]. **CCSM4** [CVJ12]. **CEBAF** [DZDR95]. **Cell** [EGG05, WET<sup>+19</sup>, BPBL11]. **Cell/B.E.** [BPBL11]. **cells** [RPdB<sup>+19</sup>]. **Cellular** [AKP08, BCZM07, MHS11, GDS17]. **Center** [AAB<sup>+21</sup>c, All88, ISD89, Mer87, RS88, MP95, OLOF23, Aus92, ABB<sup>+94</sup>, BBW90, DGH<sup>+93</sup>, KT94, LC90, Mai87, Mir90, Nas92, Sci92, TR92]. **Centers** [All88, Aus92, BBB<sup>+91</sup>b, Bra91, BBW90, GS09, KT94, Nas92, TR92, Web91]. **Centre** [Gaf88, MHW15]. **Centric** [SR05]. **Century** [BHdR09]. **cerebellum** [YIME19]. **CERFACS** [ISD89]. **CESM1** [CVJ12, CMHB15]. **CFD** [GKMT00, IGBBR23, KDL01, LDGR03, MAF<sup>+22</sup>, RHK21, WZH<sup>+20</sup>, WKW19]. **CFD-DEM** [MAF<sup>+22</sup>]. **CFDShip** [BCYS11]. **CFDShip-Iowa** [BCYS11]. **CGM** [CDT05, dAVCM<sup>+19</sup>]. **CGMGRAPH** [CDT05]. **CGMGRAPH/CGMLIB** [CDT05]. **CGMLIB** [CDT05]. **CGNR** [Man97]. **chain** [DSH<sup>+16</sup>]. **Challenge** [BEH<sup>+90</sup>, CBB<sup>+96</sup>, DSD<sup>+91</sup>, GD09, IKY<sup>+10</sup>, Kit90, RAGW93, SGFC09, NMI<sup>+19</sup>, RAB<sup>+15</sup>]. **Challenges** [Cap09, GL09, Her09, KMW<sup>+13</sup>, VFJ<sup>+15</sup>, GR17, WD19, WD24]. **change** [ZCZ<sup>+13</sup>]. **Changing** [MMS88]. **Chapel** [CCZ07, CH13, DZ07]. **Characteristics** [McR87, LWT<sup>+11</sup>]. **Characterization** [Kal09a, LPJ98, TMMR10, WDW<sup>+12</sup>, Har11]. **Characterization/Segmentation** [Kal09a]. **Characterizations** [JPV23]. **Chaste** [BSW<sup>+14</sup>]. **checker** [TDG<sup>+19</sup>]. **Checkpoint** [CY08, SSB<sup>+05</sup>, BRR17, IFA15]. **Checkpoint/Restart** [SSB<sup>+05</sup>]. **checkpoint/verification** [BRR17]. **Checkpointing** [GNB11, SSB<sup>+05</sup>, HLC<sup>+19</sup>, KHS<sup>+19</sup>]. **Chemical** [ARR99, Bro88, DFC90, Koi90, Mar88a, MMS88, TWK87, YZZW21]. **chemical-potential** [YZZW21]. **Chemically** [LP10, MYC92]. **ChemIO** [NFK98]. **Chemistry** [ATD<sup>+88</sup>, Bro88, EDS95, Mar88a, NFK98, TMW<sup>+99</sup>]. **Chesapeake** [WLVL<sup>+96</sup>]. **chimera** [HLZ<sup>+20</sup>]. **China** [CYZ<sup>+20</sup>, SKC10]. **chip** [KDH18, VEMR17]. **chips** [LTPK17]. **Cholesky** [CDL20, Jea13]. **Chroma** [JC12]. **Chromodynamics** [Liu90]. **CICE** [CMHB15]. **Circular** [AEPR92]. **Circulation** [KM95, PLS05]. **Clacc** [DLVL<sup>+24</sup>]. **Clang** [DLVL<sup>+24</sup>]. **CLAS** [DZDR95]. **Class** [McN89]. **Classification** [Tho90, WEPB12]. **Client** [kLCCW07]. **Client-Side** [kLCCW07]. **Climate** [CJK<sup>+05</sup>, DJC05, GS05, JLO05, WOS08, WHL03, Ano22a, BBA<sup>+21</sup>, NBE<sup>+22</sup>, WDH<sup>+15</sup>, YWL<sup>+14</sup>]. **Climatic** [WBMY90]. **clones** [CSC24]. **Cloud** [LJC<sup>+10</sup>, AGK<sup>+23</sup>, Ano22a, BTRZ<sup>+19</sup>, LNK22, MCR<sup>+17</sup>, NBE<sup>+22</sup>, TR17, TPG<sup>+18</sup>]. **cloud-based** [TPG<sup>+18</sup>]. **Clouds** [Dee10, DT11, DT17, Tho90, DT19, DT23, MGB12, MRD<sup>+15</sup>]. **Club** [BCK<sup>+89</sup>]. **Cluster** [BFNV07, CK01, DMT01, Fra05, GSIL03, JSSZ09, KT99, LWL05, WG07, BHZ<sup>+23</sup>, GDKWS15, MHS11, NOM<sup>+19</sup>, WZHG17, JDD18]. **Clustering** [NRR97, DSH<sup>+16</sup>, ZWS21]. **Clusters** [AWS01, BG09, CDT05, CAK<sup>+07</sup>, CWG09, CDCV06, DT99, DT11, DT17, Gir02, KS05, LDB<sup>+06</sup>, MWC<sup>+05</sup>, PPK<sup>+04</sup>, PC08a, SG09a, Ste01, YB07, AGK<sup>+23</sup>, CvG11, DTDP14, DT19, DT23, EEL15, HLS<sup>+17</sup>, JRT16, JC12, MBC<sup>+18</sup>, MGFP20, Pap11, PFGDM20]. **CM** [CC95, KJH96]. **CM-2** [CC95]. **CM-5** [KJH96]. **CM-5/SE** [KJH96]. **CM2** [CH94]. **CMP** [ABG<sup>+19</sup>]. **Co**

- [ABD<sup>+</sup>18, ABG<sup>+</sup>19, FAB<sup>+</sup>21, GD09, Ger21, Mat03, BPR18, Jon12, UCZ<sup>+</sup>15, AAB<sup>+</sup>21c].
- Co-Design** [GD09, FAB<sup>+</sup>21, Ger21, UCZ<sup>+</sup>15, AAB<sup>+</sup>21c].
- Co-reservation** [Mat03]. **Co-scheduling** [ABD<sup>+</sup>18, ABG<sup>+</sup>19, Mat03, BPR18, Jon12].
- Coarse** [BGB<sup>+</sup>96, DZRS99].
- Coarse-Grained** [BGB<sup>+</sup>96, DZRS99].
- Coastal** [Cow08]. **coaxial** [PLJD24]. **Code** [AD89, AJL<sup>+</sup>97, BBA87, BH00, CK01, CEL<sup>+</sup>97, Del93, DZDR95, HL10, HE01, LWL05, MMD98, MS02, MT89, MBF<sup>+</sup>11, MSK92, PPR03, Pla09, WZH<sup>+</sup>20, YW93, BSH<sup>+</sup>16, DWT<sup>+</sup>19, DAC<sup>+</sup>14, FU12, HIT<sup>+</sup>14, HBKR21, INY<sup>+</sup>14, JKD<sup>+</sup>11, MBvdG13, MGS<sup>+</sup>15, PHF21, RHK21, SSR<sup>+</sup>14, TRS13, TGP19, VRB<sup>+</sup>19]. **Codes** [AS00, BGB<sup>+</sup>18, CL95, DL97, IHMM87, MCW<sup>+</sup>00, Reu92, SWW94, ESD<sup>+</sup>22].
- codesign** [VDF<sup>+</sup>23]. **coexistence** [CBA<sup>+</sup>18]. **Coherent** [Wad99, PS12].
- Collaboration** [SG09b]. **Collaborative** [DFH<sup>+</sup>96, HBSP08, NBB<sup>+</sup>96].
- Collaboratory** [YFH<sup>+</sup>96]. **Collapse** [Gun00, HTSK90]. **Collection** [DT06].
- Collections** [HLP<sup>+</sup>03]. **Collective** [BMR06, FCLG07, KFM<sup>+</sup>10, LCZ<sup>+</sup>15, TRG05, VFD04, KMH<sup>+</sup>14, SCB14].
- collectives** [DJJ<sup>+</sup>19, WLHF16]. **Collide** [NBB<sup>+</sup>96]. **collision** [VOL<sup>+</sup>14]. **Colmena** [WPHS<sup>+</sup>25]. **Color** [IMH<sup>+</sup>11, IMH<sup>+</sup>12, Tho90]. **Color/Albedo** [Tho90]. **Columbia** [MAB07, HBC<sup>+</sup>08].
- combatant** [BCYS11]. **combination** [ASHH16]. **combinatorial** [AAB<sup>+</sup>21b, BG11]. **Combined** [YK04, BLOR18]. **Combining** [Gir02, LSLS23, Mon12, SCB14]. **Coming** [de 89]. **commercial** [MRD<sup>+</sup>15].
- Commercialization** [SG09b]. **Common** [ZM07]. **Communication** [BCG<sup>+</sup>10, BYCB05, BKS<sup>+</sup>07, BBDR95, FIMU19, HC10, INY<sup>+</sup>14, JLO05, LR09, LRO10, LRT07, NTKP06, PLS05, QH08, RW03, SWHP05, TRG05, TGT05, BGO20, BBH<sup>+</sup>13, CSC19, DGB<sup>+</sup>14, IYK16, NOM<sup>+</sup>19, OGM<sup>+</sup>16, RWM17].
- Communication-overlap** [INY<sup>+</sup>14].
- Communication/Computation** [BBDR95]. **Communications** [Ano87e, BMR06, Bus87, VFD04, SCB14].
- Communicators** [GFD05]. **Community** [DBA<sup>+</sup>09, HBSM03, CJK<sup>+</sup>05, DVW<sup>+</sup>12, DEE<sup>+</sup>12, DJC05, ESW<sup>+</sup>12, HVKW05, JLO05, MS05, MW12, TD08, WD05].
- Comparative** [MOK00]. **Comparing** [BF01, KdOCR<sup>+</sup>20]. **Comparison** [BSK14, BBT23, CAK<sup>+</sup>07, Gen88, HC10, Jon92, KM95, Mat95, SR98, MYG23, SFLC18, WKLW21]. **Comparisons** [Ma00].
- Compensation** [MSMW07]. **CoMPI** [FSC<sup>+</sup>11]. **Compilation** [BJK07, CW05, PG18]. **Compiler** [CW05].
- Compilers** [Ano01a, YHG<sup>+</sup>07]. **Complete** [LK01]. **completely** [PH19]. **Completion** [CY08]. **Complex** [ASHH16, Dar99, GKB93, GHZ10, PK04, BGI<sup>+</sup>25, CSGM17, EHTW21, LNR<sup>+</sup>24, WKLW19]. **complex-entry** [CSGM17]. **complexes** [HLK<sup>+</sup>23].
- Complexity** [BMR06, BGB<sup>+</sup>96, DF08, Spr06, BRGR11].
- Component** [BAA<sup>+</sup>06, DF08, KBA00, KFM<sup>+</sup>10, MGB12, PGTS10, PPR03, SVN09].
- Component-Based** [PGTS10, MGB12].
- Components** [CTD<sup>+</sup>05, WSD<sup>+</sup>14].
- Composing** [HGWN14]. **composite** [NMAE13]. **composites** [LPB<sup>+</sup>16].
- Composition** [Cot04, DLB07].
- Compositional** [AWS01, BBD00, KR94, KR95].
- Compounds** [FWZ91]. **Compressed** [AAG<sup>+</sup>23, LHD<sup>+</sup>25]. **compressible** [HHSM19, dFRD<sup>+</sup>23]. **Compression** [Arn07, DLY<sup>+</sup>98, DF08, FSC<sup>+</sup>11, CGGC<sup>+</sup>16, CCO<sup>+</sup>19, CDL<sup>+</sup>19, CGBL25, HLRK24, IFA15, KV19, Ozs16, PDDI22, TDG<sup>+</sup>19, UBK<sup>+</sup>23]. **Compressors**

- [GMWG10, YK07]. **Compromised**  
 [LJC<sup>+</sup>10]. **Compromised-Time-Cost**  
 [LJC<sup>+</sup>10]. **COMPSSs** [CCBL18]. **Comput**  
 [Ano24]. **Computation**  
 [BBDR95, CBW95, Chu99, lSD89, GWKN08,  
 Her88, HS93, JP93, Nag89, SSNM92, Ste09a,  
 Ste09b, Tis97, WSCZ05, SVBP13, WEPB12,  
 ABB<sup>+</sup>94, KT94, TR92]. **Computational**  
 [Blo87, CD97, Cha88, CDH<sup>+</sup>97b, DVW<sup>+</sup>12,  
 DFMD94, DGJ09, DT99, DGH<sup>+</sup>93, Duk91,  
 EGMP93, FBW<sup>+</sup>87, Gen88, HBSM03,  
 HOPB92, HL10, JL89, NFK98, Num04, PK04,  
 PBE<sup>+</sup>19, RBMF87, SK90, SG07, SBWS99,  
 SW04, TMW<sup>+</sup>99, VR00, Wit92, WPBB01,  
 YM91, YK07, Ytt97, AFL<sup>+</sup>18, BSW<sup>+</sup>14,  
 CGGC<sup>+</sup>16, CBA<sup>+</sup>18, DCK<sup>+</sup>23, DTL19,  
 JKBW18, PDDI22, TBA<sup>+</sup>17, VRRL18].  
**Computations** [BBR10, Ber92, Duk91,  
 MA15, MCG04, SD87, ALE<sup>+</sup>20, Ano24,  
 BCYS11, BCLP17, DKMT18, HDL<sup>+</sup>15,  
 LAZ<sup>+</sup>24, LHD<sup>+</sup>25, MK24]. **compute**  
 [KL13]. **Computer** [BEF<sup>+</sup>95, Bus87,  
 CKE08, Cla91, Don89, GL09, HKK88, HD05,  
 JL89, KT99, MM90, PS87, TWK87, VC89,  
 WBMY90, AHB<sup>+</sup>16, BAM<sup>+</sup>16, BE17,  
 HIT<sup>+</sup>14, HLS<sup>+</sup>17, INY<sup>+</sup>14, KMM16,  
 Kum89, MBHF15, PNFC16, TAM<sup>+</sup>16].  
**Computer-Aided** [MM90]. **Computers**  
 [Ano87f, BOD<sup>+</sup>91, BBA87, BH99, CDH<sup>+</sup>93,  
 CDP<sup>+</sup>94, EDS95, FG97, FFNP97, GP93,  
 Gun00, IS96, Jon92, Meu88, CGST19,  
 FAB<sup>+</sup>21]. **Computing**  
 [ATN<sup>+</sup>00, Ano87a, Ano87d, Ano94c, Ano95b,  
 Ano98b, Ano98a, Ano99, Ano00, Ano01b,  
 Aus92, BV11, BM12, BM13, BGI<sup>+</sup>99,  
 BQOS21, BAA<sup>+</sup>06, BBT23, BRT<sup>+</sup>92, Bus87,  
 CWHP99, CNR<sup>+</sup>24, DF18, Dar00, Dem90,  
 Don89, DT99, DMT01, DT11, DT17,  
 DCL<sup>+</sup>08, Ede93, EDSV06, EW06, EW22,  
 ESD<sup>+</sup>22, Ewi88, Eyr06, FGC<sup>+</sup>05, FGJ<sup>+</sup>04,  
 Gaf88, GHM<sup>+</sup>10, Ger21, GMWG10,  
 GNTLH97, GL97, HME90, Her09, JLL04,  
 JSSZ09, Joh01, KDH11, Kep04a, KT99,  
 Kuc04, KHK<sup>+</sup>09, KS05, LS90, LJC<sup>+</sup>10,  
 LD07, MPS15, Mah90, MYCR06, Mar87a,  
 Mat95, ME14, PPK09, PA11, Rao02,  
 RAGW93, Sab91, Sal87, SKB01, Ste01, Ste04,  
 SFP02, SKC10, THDC09, Wal03, YBA<sup>+</sup>03,  
 ABH<sup>+</sup>18, AFGQO19, AMB<sup>+</sup>18, ARPY19,  
 BHZ<sup>+</sup>23, Bai20, BE17, BTRZ<sup>+</sup>19, BBA<sup>+</sup>21,  
 BLOR18, BAP<sup>+</sup>12, CSS24, CGW19, Cec20,  
 DTDP14, DHL16, DT19, DT23].  
**computing** [DAC<sup>+</sup>14, ECG<sup>+</sup>13, EDB19,  
 EB23, EKD<sup>+</sup>12, Fem90, FKA<sup>+</sup>17, GR17,  
 GSND20, Har11, HLRK24, IYK16, IFA15,  
 JdSA<sup>+</sup>17, KT94, LDLD19, LBB17, MEK<sup>+</sup>19,  
 MDW<sup>+</sup>23, MFB<sup>+</sup>19, MCU<sup>+</sup>13, MBF<sup>+</sup>21,  
 MZA<sup>+</sup>24, PPC<sup>+</sup>16, RRJ<sup>+</sup>20, SWA<sup>+</sup>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<sup>+</sup>14]. **Concurrent**  
[AH93, BMWD87, Fro91, BRGR11].  
**Conference** [Gaf88, OL05, KKDV03].  
**Configuration** [AEPR92, LTPK17, LBB17].  
**Configuring** [PPK<sup>+</sup>04]. **Confined**  
[ACG<sup>+</sup>90]. **Confinement** [BGB<sup>+</sup>18].  
**Conjugate**  
[AH93, CSV91, MG87, DHL16, IVG<sup>+</sup>20,  
IGA24, KSM23, KMM16, PSV<sup>+</sup>16, PF16].  
**conjugate-gradient** [DHL16]. **Connecting**  
[BKS<sup>+</sup>07]. **Connection** [Ano87d, Don87,  
BJ92, CC95, GKH<sup>+</sup>91, HZ91]. **Conquer**  
[Cza03]. **consensus** [KDNE18].  
**conservation** [LH19]. **Consistent** [KS09a].  
**Consortium** [GS09]. **Constant** [MP94].  
**Constrained**  
[FSS13, LJC<sup>+</sup>10, NKR90, IK18]. **constraint**  
[DAB<sup>+</sup>12]. **constraint-based** [DAB<sup>+</sup>12].  
**Constraints** [CY08, GSML03, BLOR18,  
CCRV20, LCZ<sup>+</sup>15]. **construction** [PS12].  
**consumption**  
[BDC21, BLOR18, CGGC<sup>+</sup>16]. **containers**  
[EB23]. **Contaminant** [ABF<sup>+</sup>99]. **content**  
[LFB<sup>+</sup>15, MRD<sup>+</sup>15]. **content-aware**

[MRD<sup>+15</sup>]. **Context**  
 [KDH11, QH08, YBA<sup>+03</sup>, CZR<sup>+11</sup>].  
**Context-Aware** [YBA<sup>+03</sup>].  
**context-based** [CZR<sup>+11</sup>]. **continuous**  
 [AWWG19]. **continuum** [BTRZ<sup>+19</sup>].  
**contrast** [RPdB<sup>+19</sup>]. **Contributors**  
 [Ano91b, Ano91a, Ano92g, Ano96c, Ano96a,  
 Ano97b, Ano97c, Ano98a]. **Control**  
 [AK91, AK93, Dar00, DFH<sup>+96</sup>, VR00,  
 HRW19, RRJ<sup>+20</sup>, WDW<sup>+12</sup>]. **Controlled**  
 [DSD<sup>+91</sup>]. **Controllers** [MFOAGE18].  
**controlling** [OF17]. **converge** [CCBL18].  
**Convergence** [BBR10, DFS<sup>+05</sup>]. **convex**  
 [SH93]. **Convolutional** [BDC21].  
**Cooperative**  
 [DBA<sup>+09</sup>, DCL<sup>+08</sup>, kLCCW07, IK18].  
**Coordinate** [YRA<sup>+02</sup>]. **Coordinated**  
 [FP02]. **coprocessor** [VEMR17].  
**coprocessors** [HLS<sup>+17</sup>]. **Copy** [SWHP05].  
**CORBA** [PPR03]. **Core**  
 [Bri10, DFS<sup>+05</sup>, MS05, AKC<sup>+19</sup>, BBG<sup>+14</sup>,  
 BH12, CAE<sup>+13</sup>, DEE<sup>+12</sup>, DDKK19,  
 INS<sup>+20</sup>, KDH11, KILL13, LMT<sup>+12</sup>,  
 LDW<sup>+12</sup>, LNSMMA15, MSPSI15, PSV<sup>+16</sup>,  
 SSR<sup>+14</sup>, TKA<sup>+17</sup>, Udd17, VEMR17,  
 VRB<sup>+19</sup>, VOL<sup>+14</sup>, YFS<sup>+14</sup>, GLZS14].  
**cores** [DJJ<sup>+19</sup>, FU12, INY<sup>+14</sup>, LYL<sup>+16</sup>,  
 LM23, OY22]. **Cornell** [Mer87].  
**coronavirus** [TGS<sup>+22</sup>]. **coronavirus-2**  
 [TGS<sup>+22</sup>]. **correction** [AG18, YFS<sup>+14</sup>].  
**Correlating** [CS14]. **correlation**  
 [CLG13, GHL15]. **Correspondence**  
 [BH99, IS96, PTGB02, WLB92].  
**Corrigendum**  
 [Ano19, Ano20a, Ano20b, Ano22a]. **Cortical**  
 [WW92]. **Coscheduling** [BL99, CAK<sup>+07</sup>].  
**Cost** [LJC<sup>+10</sup>, PPK09, TR17].  
**Cost-Constrained** [LJC<sup>+10</sup>]. **Coulomb**  
 [DGD<sup>+04</sup>]. **Coupled** [HAF<sup>+96</sup>, IKY<sup>+10</sup>,  
 JDD18, KT99, LJO05, PK04, BG22, KC18,  
 NOM<sup>+19</sup>, SKP<sup>+22</sup>, YJZN22]. **Coupler**  
 [CJK<sup>+05</sup>, CVJ12]. **Coupling** [HD05, JLO05,  
 LJO05, MTW<sup>+22</sup>, PPR03, EW22]. **CoV**  
 [BGB<sup>+22</sup>, CNW<sup>+23</sup>, DCK<sup>+23</sup>, ZBH<sup>+23</sup>,  
 CDG<sup>+21</sup>]. **COVID** [dS21, ABL<sup>+22</sup>,  
 JMM<sup>+21</sup>, LWL<sup>+23</sup>, OWC<sup>+21</sup>]. **COVID-19**  
 [dS21, ABL<sup>+22</sup>, JMM<sup>+21</sup>, LWL<sup>+23</sup>,  
 OWC<sup>+21</sup>]. **CPL6** [CJK<sup>+05</sup>]. **CPU**  
 [BL99, BJWS20, GHL15, HTD<sup>+14</sup>,  
 PFGDM20, SHK<sup>+18</sup>, TM23, VRB<sup>+19</sup>].  
**CPU-GPU** [HTD<sup>+14</sup>, TM23]. **CPU-MIC**  
 [SHK<sup>+18</sup>]. **CPUs**  
 [HBKR21, KDH11, SFLC18, TKA<sup>+17</sup>].  
**Crash** [HTSK90, CEL<sup>+97</sup>]. **Cray**  
 [ABF<sup>+08</sup>, AEPR92, DD89, DD91, Del93,  
 GCL93, LT88, Ma00, MYC92, MSK92,  
 THL88, YW93, ABF<sup>+99</sup>, DH96, Lai93,  
 McN89, SBBS06]. **Cray-1s** [McN89].  
**CRAY-2** [DD89, DD91, GCL93].  
**CRAY-T3E** [Ma00]. **CRE2017** [Mas19].  
**CRE2019** [KM20]. **creation**  
 [EB23, KILL13]. **Creutz** [BRT<sup>+92</sup>]. **Crisis**  
 [BE07]. **Criteria** [BKRSR09]. **critical**  
 [SDJ17]. **critical-path** [SDJ17]. **Cross**  
 [PLS05, CLG13, LSLR<sup>+20</sup>, SK20, WVL<sup>+16</sup>].  
**cross-bundle** [WVL<sup>+16</sup>].  
**cross-correlation** [CLG13]. **cross-machine**  
 [SK20]. **Cross-Platform** [PLS05]. **crowd**  
 [VOL<sup>+14</sup>]. **CRPC** [CDP<sup>+94</sup>]. **crucial**  
 [SZ11]. **Cryo** [TGS<sup>+22</sup>, SSCF19]. **Cryo-EM**  
 [TGS<sup>+22</sup>, SSCF19]. **Crystal** [Cla91].  
**crystalline** [HXW<sup>+13</sup>]. **crystallisation**  
 [WSD<sup>+14</sup>]. **Crystallography** [CDH<sup>+93</sup>].  
**CUBE** [JBOT19]. **CUDA**  
 [DSH<sup>+16</sup>, GDKWS15, KKB<sup>+21</sup>, KNPS21,  
 MV20, SDJ17, TM23, ZZG<sup>+14</sup>].  
**CUDA-accelerated** [GDKWS15].  
**CUDA-enabled** [DSH<sup>+16</sup>]. **CUDA/HIP**  
 [TM23]. **CUMULVS** [GKP97, KWB06].  
**Current**  
 [Cap09, GFD05, GCSK13, LVA<sup>+13</sup>].  
**cutting** [HLZ<sup>+20</sup>]. **CYBER**  
 [ABAS87, McN89]. **cycle** [AHB<sup>+16</sup>].  
**CYDRA** [HRM89]. **CYDRA-5** [HRM89].  
**D** [KR94, KR95, SSCF19, VSS<sup>+13</sup>, 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<sup>+18</sup>]. **Data**  
 [ACF<sup>+11</sup>, AF09, Ano87e, BCG<sup>+10</sup>, BHK<sup>+88</sup>,  
 BCM<sup>+03</sup>, BCH<sup>+23</sup>, BH06, CFK<sup>+94</sup>, CBW95,  
 DP05, DH96, DZ07, DT17, DFT<sup>+15</sup>, Fei99,  
 Fol90a, GMLP08, GG11, HJ96, JW06, Joh01,  
 KUE<sup>+00</sup>, LR07, MAJJS03, RRV06, SS89,  
 SS10, TLdS22, VS03, WHL03, ZRC<sup>+06</sup>,  
 AKW19, APD<sup>+15</sup>, ATL<sup>+15</sup>, AMB<sup>+18</sup>,  
 BTRZ<sup>+19</sup>, CDL<sup>+19</sup>, CCBL18, DBD<sup>+23</sup>,  
 DCN17, DT19, DT23, EMP<sup>+18</sup>, FKA<sup>+17</sup>,  
 FAB<sup>+21</sup>, FR22, FFZ<sup>+23</sup>, GKR<sup>+22</sup>,  
 HLW<sup>+16</sup>, IGBBR23, KV19, KSM23, LD24,  
 Lap22, LGDH16, LM23, LCT<sup>+24</sup>, MRD<sup>+15</sup>,  
 OLOF23, OWC<sup>+21</sup>, Ozs16, PDDI22, PB23,  
 PH91, PBB<sup>+20</sup>, PG18, QAL<sup>+23</sup>, RWM17,  
 STP<sup>+13</sup>, SZ11, TDG<sup>+19</sup>, TDM<sup>+17</sup>,  
 UBK<sup>+23</sup>, WDH<sup>+15</sup>, Akb24].  
**data-dependent** [LCT<sup>+24</sup>]. **Data-driven**  
 [BCH<sup>+23</sup>, TLdS22, BTRZ<sup>+19</sup>, IGBBR23,  
 OWC<sup>+21</sup>]. **Data-Intensive**  
 [GMLP08, KUE<sup>+00</sup>, ACF<sup>+11</sup>, FKA<sup>+17</sup>].  
**Data-Parallel** [HJ96]. **Database** [MS09].  
**Databases** [RGB<sup>+18</sup>]. **Dataflow**  
 [ACM88, Sha88, JDD18, WZHG17].  
**dataflow-based** [JDD18, WZHG17].  
**Datagrid** [PHB04]. **Datasets**  
 [SE92, ZM07, GVR<sup>+21</sup>]. **Datatype**  
 [SWHP05]. **Davidson** [UF89]. **deadline**  
 [CCRV20]. **Deadlock** [LBB17].  
**Deadlock-free** [LBB17]. **Dealing**  
 [GSHL03]. **Debuggers** [Ano01a]. **Decision**  
 [GWKN08, BCH<sup>+23</sup>, JCK21].  
**Decision-Making** [GWKN08].  
**Decomposition** [BLRR01, Cha88, GCD97,  
 Meu88, NK89, DFT<sup>+15</sup>, IKMS<sup>+19</sup>, KLR<sup>+21</sup>,  
 Lai93, YZC<sup>+15</sup>]. **Decoupled** [PH91].  
**Dedicated** [CAK<sup>+07</sup>, GSHL03, DJJ<sup>+19</sup>].  
**deduplication** [LD24]. **Deep**  
 [VDF<sup>+23</sup>, BHZ<sup>+23</sup>, CHT<sup>+19</sup>, JMM<sup>+21</sup>,  
 LSLS23, VRB<sup>+19</sup>]. **defined**  
 [ADMP18, AGK<sup>+23</sup>, JDAD19]. **Defining**  
 [KKS04]. **deformable** [SE12]. **degrees**  
 [TAM<sup>+16</sup>]. **degrees-of-freedom** [TAM<sup>+16</sup>].  
**Delay** [Rao02]. **Delivering** [BTZ<sup>+25</sup>].  
**delta** [DCK<sup>+23</sup>]. **Demand**  
 [EW06, dPIdA03]. **Demystifying**  
 [TNCC21]. **Dense**  
 [Ano02k, BGG05, BDL<sup>+07</sup>, Ede93, LRLG19,  
 MY24, MBvdG13, SCR11, TQOA23].  
**density** [HBKR21, LNSMMA15, QSX<sup>+20</sup>].  
**density-functional** [QSX<sup>+20</sup>].  
**Department** [Kit90]. **dependencies**  
 [ELEB21]. **Dependent** [MBF<sup>+11</sup>, LCT<sup>+24</sup>].  
**Deployable** [GCL93]. **Deploying**  
 [CdVL<sup>+18</sup>]. **Deployment**  
 [CDCV06, GCL93, GMLP08]. **deposited**  
 [GSK<sup>+15</sup>]. **Deposition** [MD99]. **depth**  
 [JDAD19]. **derivatives** [Haj93]. **Derived**  
 [SWHP05, MDH<sup>+18</sup>]. **deriving**  
 [IGDQO19, MBvdG13]. **describing**  
 [ABH<sup>+18</sup>]. **Design** [AEG<sup>+03</sup>, BGI<sup>+99</sup>,  
 BBH<sup>+13</sup>, BBMB19, BRM03, BH06, CE00,  
 CLP<sup>+99</sup>, CTD<sup>+05</sup>, Dar00, DZRS99,  
 DFH<sup>+96</sup>, DJC05, EGMP93, FGC<sup>+05</sup>,  
 GJMS88, GCCC<sup>+03</sup>, GHM<sup>+10</sup>, GD09,  
 KS09b, PPK09, SD87, AAA<sup>+22</sup>, BHL<sup>+24</sup>,  
 BG11, DTL19, FAB<sup>+21</sup>, Ger21, JMM<sup>+21</sup>,  
 UZM<sup>+14</sup>, UCZ<sup>+15</sup>, AAB<sup>+21c</sup>, Mar87a].  
**designed** [CNR<sup>+24</sup>]. **Designing** [RWM17,  
 SWHP05, SKS<sup>+13</sup>, ZWS21, ZRG<sup>+24</sup>].  
**Desmos** [SDI<sup>+19</sup>]. **Detailed**  
 [EDS95, SBBS06, CHWS20]. **Detecting**  
 [CSC24, JRP<sup>+23</sup>]. **Detection**  
 [CBL10, YZC<sup>+15</sup>, AG18, BSS15, HGMW12,  
 KDNE18, VOL<sup>+14</sup>, WLG<sup>+18</sup>, ZCZ<sup>+13</sup>].  
**Detector** [DZDR95, Ano19, BBG<sup>+18</sup>].  
**Determination** [BHK<sup>+88</sup>, CSY10].  
**Determined** [CGB<sup>+94</sup>]. **Deterministic**  
 [DR06, DMSMG18, MV20, SLL<sup>+19</sup>]. **DEUS**  
 [RAB<sup>+15</sup>]. **developed** [CVJ12].  
**Developing** [THDC09, PPC<sup>+16</sup>].  
**Development**  
 [Ano01a, BLU<sup>+22</sup>, BCC<sup>+01</sup>, BBD00, Dar99,  
 GKR<sup>+22</sup>, HL00, HRM89, Kal09a, LC90,

LD07, MM90, MS19, PPS09, Eri88]. **Development/Tuning** [Kal09a]. **Developments** [YSS<sup>+</sup>06]. **device** [Lai93, OF17, SKP<sup>+</sup>22]. **Devices** [PHC<sup>+</sup>10, RKKC90, Rad18]. **DG** [MV20]. **DG-MOSFETs** [MV20]. **DGEMM** [OOY24]. **diagnosis** [DCM<sup>+</sup>17]. **diagonal** [YLL<sup>+</sup>14]. **Diagrams** [FWZ91]. **Dialogue** [LS06]. **Diego** [Mai87]. **Dielectric** [ZOF90]. **Diet** [CD06]. **Difference** [CC95, THL88, EKF<sup>+</sup>19, WKLW21]. **different** [LWT<sup>+</sup>11]. **Differential** [Key09, Meu88, BDE<sup>+</sup>25, KS89, RMS<sup>+</sup>18]. **differentiation** [HHS19]. **diffraction** [EEL15]. **Diffusion** [BFNV07, EDS95, SG91, TWK87, BG22, LMT<sup>+</sup>12]. **Diffusion-Limited** [TWK87]. **diffusion/filtering** [LMT<sup>+</sup>12]. **Digital** [ABL<sup>+</sup>22, MPG93, YFH<sup>+</sup>96, GHL15]. **dilation** [LST15]. **Dimensional** [BCZM07, CSY10, EGG05, LT90, MT89, BE17, KS89, KRR19, LSS93, PLJD24, YFS<sup>+</sup>14]. **Dimensionality** [BFLL99]. **Dimensions** [TWK87]. **Dip** [LT90]. **Dipole** [DGJ09]. **Dirac** [PHF21]. **Direct** [Bri10, CM97, HVWS09, HVSW09, LWL05, BHL<sup>+</sup>24, CGBL25, KMJ<sup>+</sup>23]. **Direction** [Mah90]. **Directionally** [SZC12]. **Directions** [Fol90a, PBB<sup>+</sup>20]. **Discharge** [YW93]. **discontinuous** [AWWG19, MSP<sup>+</sup>24]. **Discovery** [AEG<sup>+</sup>03, AAF<sup>+</sup>01, ASA19, GVR<sup>+</sup>21, LWL<sup>+</sup>23, PBB<sup>+</sup>20, AEG<sup>+</sup>03]. **Discrete** [DGJ09, Ham91, DMSMG18, Mon12]. **discretizations** [KFM<sup>+</sup>21, LH19, PKC23]. **discriminating** [SKS<sup>+</sup>13]. **disembarking** [GDS17]. **Disk** [KNP<sup>+</sup>87]. **Dislocation** [HSLK11]. **Disordered** [KVV<sup>+</sup>90]. **dispel4py** [FKA<sup>+</sup>17]. **Dispelling** [Ano87c]. **Dissemination** [GL97]. **Dissolution** [Cla91]. **Distance** [HME90, KR11]. **Distances** [KTWL18]. **Distributed** [AKP08, AF09, BGG05, BFLL99, BGF02, CWHP99, CYT<sup>+</sup>02, CLF87, CB95, Dee10, DFMD94, DCCS10, EDSV06, GKN<sup>+</sup>96, GGS01, Gir02, HC10, HD05, HdV18, JMP02, KT99, LWOB97, MYCR06, MWAR<sup>+</sup>87, Mat95, MCW<sup>+</sup>00, Nag89, NKP<sup>+</sup>00, OMDS23, QWIC02, Rao02, RBMF87, SWG<sup>+</sup>03, SPNB14, YIYD19, YRA<sup>+</sup>02, ZR $\zeta$ <sup>+</sup>06, dPIdA03, ABH<sup>+</sup>18, CBD<sup>+</sup>17, EDB19, GEKO19, IGBBR23, JRT16, JO92, RCAE<sup>+</sup>20, THDS19, VMPW20]. **Distributed-Memory** [MCW<sup>+</sup>00, YIYD19]. **Distributing** [CBSB01]. **Distribution** [TCW06, TC10, QSX<sup>+</sup>20]. **Distributions** [DZ07]. **diverse** [ABC<sup>+</sup>24, AGK<sup>+</sup>23, PBB<sup>+</sup>20]. **Divide** [Cza03]. **Divide-and-Conquer** [Cza03]. **dividends** [DTL19]. **Divisible** [DLG06, MYCR06]. **Division** [Bus87, Don89]. **DNA** [DTDP14, GPO<sup>+</sup>20, HB90, MP18, PRT90]. **Docking** [GHM<sup>+</sup>10]. **DOE** [HBSM03]. **Domain** [Cha88, CDH<sup>+</sup>97b, GCD97, Lai93, Meu88, WCDS99, CSGM17, IKMS<sup>+</sup>19, KLR<sup>+</sup>21, PHF21, YJZN22]. **Domain-Specific** [CDH<sup>+</sup>97b, PHF21]. **Donation** [TCW06]. **Donation-Based** [TCW06]. **Dong** [Ano24]. **Dongarra** [Ano24]. **Double** [PRT90]. **Drift** [BFNV07]. **Drive** [HE01, PPS09]. **Driven** [CHZ02, DCL<sup>+</sup>08, YB07, BTRZ<sup>+</sup>19, BCH<sup>+</sup>23, CDG<sup>+</sup>21, DAB<sup>+</sup>12, IGBBR23, OWC<sup>+</sup>21, TLdS22, TGS<sup>+</sup>22]. **droplet** [ABL<sup>+</sup>22]. **droplet/aerosol** [ABL<sup>+</sup>22]. **drug** [GVR<sup>+</sup>21, JMM<sup>+</sup>21, LWL<sup>+</sup>23, MSPSI15]. **Dual** [BBC<sup>+</sup>00, FT19, Ish91]. **Dual-Level** [BBC<sup>+</sup>00]. **Dumont** [BCP<sup>+</sup>20]. **Duration** [CY08]. **DV** [TKSK88]. **DV-X** [TKSK88]. **Dynamic** [AAF<sup>+</sup>01, ABAS87, BCM<sup>+</sup>03, BG00, CY08, DLY<sup>+</sup>98, DFMD94, GFD05, HWP03, IMB<sup>+</sup>19, MÁAC<sup>+</sup>24, SCB<sup>+</sup>95, SVN09, TM99, FFZ<sup>+</sup>23, LGDH16, MJD16, PMP<sup>+</sup>20, SCB14]. **Dynamical**

- [DFS<sup>+05</sup>, FBW<sup>+87</sup>, HT04b, MS05, SWW94, DEE<sup>+12</sup>, DDKK19, LMT<sup>+12</sup>]. **Dynamics** [ACD07, BMT89, CGB<sup>+94</sup>, Cha88, CWG09, DQFW90, DGD<sup>+04</sup>, Gen88, Gun00, HL10, HSLK11, JL89, KVY<sup>+90</sup>, MP94, Nak99, NHG<sup>+96</sup>, PRT90, RBMF87, SK90, ABH<sup>+18</sup>, AKC<sup>+19</sup>, AKW19, BHZ<sup>+23</sup>, CDG<sup>+21</sup>, CHW<sup>+15</sup>, HXW<sup>+13</sup>, KFJ20, KKL<sup>+19</sup>, KNPS21, PDDI22, PGK<sup>+24</sup>, PIR<sup>+20</sup>, SKE<sup>+23</sup>, SDI<sup>+19</sup>, ZBH<sup>+23</sup>].
- E-Science** [HWP03, HT04a]. **E3SM** [LNK22]. **E3SM-MMF** [LNK22]. **eager** [ELEB21]. **eager-release** [ELEB21]. **Early** [GKN<sup>+96</sup>, GNTLH97, HGD91, Kal09a, SLG95]. **Earth** [DVW<sup>+12</sup>, ESW<sup>+12</sup>, MEK<sup>+19</sup>, CTD<sup>+05</sup>, CVJ12, DEL<sup>+12</sup>, IKY<sup>+10</sup>]. **earthquake** [AHB<sup>+16</sup>, CMS<sup>+11</sup>, MTW<sup>+22</sup>, BAM<sup>+16</sup>]. **earthquake-cycle** [AHB<sup>+16</sup>]. **ease** [MFOAGE18]. **EC2** [Pap11]. **ECG** [Arn07]. **ECJ** [CdVL<sup>+18</sup>]. **Ecological** [WBG06]. **Econometric** [ABAS87, GP93, PS87]. **Economic** [BE07, LC90, NKR90, SG07]. **Economic-Based** [SG07]. **Economics** [AK91]. **Ecosystem** [WBG06, AFGQO19]. **ECP** [AAA<sup>+25</sup>, BHC<sup>+25</sup>, BGI<sup>+25</sup>, HMA<sup>+24</sup>]. **Eddy** [CK01]. **edge** [BTRZ<sup>+19</sup>, CSGM17, Rad18]. **edge-emitting** [Rad18]. **edge-FEA** [CSGM17]. **edge-to-cloud** [BTRZ<sup>+19</sup>]. **editor** [DT18, DT19, WD21, DT17, WD18, WD19, WD24, dA03]. **Editorial** [Cho23, CDH<sup>+97a</sup>, Don92, DT09, Mar92, Mar94, Wit92]. **editors** [DT23, BM13, Cec20]. **Education** [Mah90, Sab91, KT94]. **Effect** [SKSG19]. **Effective** [BCK<sup>+89</sup>, Pan97, LWL<sup>+23</sup>]. **effectiveness** [TR17]. **Effects** [WBMY90, Haj93]. **Efficacy** [GWKN08]. **Efficiency** [ABAS87, DFS<sup>+05</sup>, GHM<sup>+10</sup>, ATD17, ECG<sup>+13</sup>, JdSA<sup>+17</sup>, KLR<sup>+21</sup>, MJD16, SFLC18, UZM<sup>+14</sup>]. **Efficient** [ACG<sup>+90</sup>, AEPR92, BRR17, CDG<sup>+14</sup>, DAD<sup>+22</sup>, DMT97, GMLP08, HF24, HS93, KFJ20, KC92a, KC92b, KKL<sup>+19</sup>, KFM<sup>+21</sup>, KUE<sup>+00</sup>, LR09, LRO10, LP10, MG87, MFP<sup>+17</sup>, OWO98, SC04a, TD08, YZZW21, BBMB19, BTZ<sup>+25</sup>, DBD<sup>+23</sup>, HBKR21, KV19, KKB<sup>+21</sup>, LNSMMA15, MMDA19, Ozs16, RMV<sup>+19</sup>, SDI<sup>+19</sup>, TKA<sup>+17</sup>, Wal18]. **EFFIS** [SKP<sup>+22</sup>]. **eigen** [LCT<sup>+24</sup>]. **eigen-basis** [LCT<sup>+24</sup>]. **eigen-spectrum** [LCT<sup>+24</sup>]. **eigensolver** [HTD<sup>+14</sup>, VIKM<sup>+22</sup>]. **Eigenvalue** [HS93, Tis97, UF89, LCT<sup>+24</sup>]. **Eigenvalues** [KC92a, KC92b]. **ELAPS** [PB19]. **Elastic** [ACD07, FR22]. **electrodynamics** [YJZN22]. **electrodynamics-micromagnetics** [YJZN22]. **Electromagnetic** [DGP<sup>+97</sup>, CMN12]. **electromagnetics** [CSGM17, OGM<sup>+16</sup>]. **Electromagnetism** [BGG05]. **Electron** [FFR<sup>+10</sup>, KVY<sup>+90</sup>]. **Electronic** [FWZ91, TMW<sup>+99</sup>, HTD<sup>+14</sup>, HIT<sup>+14</sup>, PHF21, SKE<sup>+23</sup>]. **electrophysiology** [BSW<sup>+14</sup>]. **Electroweak** [BGK<sup>+90</sup>]. **Element** [AJL<sup>+97</sup>, BBA87, DFS<sup>+05</sup>, EGG05, FSN08, GCD97, KM95, MMD98, MS02, THC<sup>+96</sup>, de 89, Ade21, AFL<sup>+18</sup>, BSW<sup>+14</sup>, DWT<sup>+19</sup>, DEE<sup>+12</sup>, EAG<sup>+19</sup>, KFM<sup>+21</sup>, KSM23, MGS<sup>+15</sup>, MSP<sup>+24</sup>, Mon12, PKC23, PH19, RTRZ22, SMK<sup>+20</sup>, ŠCKW19, VSW<sup>+22</sup>, WZH<sup>+20</sup>]. **elements** [AAB<sup>+24b</sup>, ZB20]. **Eliminating** [HME90]. **embedded** [KPR17, KK01]. **Embedded/** [KK01]. **EMD** [LSES20]. **EMD/HHT** [LSES20]. **emergency** [GDS17]. **emerging** [AAT<sup>+20</sup>, HFV<sup>+12</sup>, IMH<sup>+11</sup>, IMH<sup>+12</sup>, WD19]. **emission** [VBVD22]. **emitting** [Rad18]. **Empirical** [VDB04, CBM13]. **Employing** [GVF<sup>+18</sup>, WPHS<sup>+25</sup>]. **emulation** [BAP<sup>+12</sup>, LST15]. **Enabled** [CD06, CD97, CBB<sup>+04</sup>, DD06, MWM<sup>+08</sup>, Ano22a, DSH<sup>+16</sup>, DCK<sup>+23</sup>, LDLD19, NBE<sup>+22</sup>]. **Enabling**

- [ABC<sup>+</sup>24, AGR<sup>+</sup>03, BTRZ<sup>+</sup>19, DBD<sup>+</sup>23, DGB<sup>+</sup>14, FKT01, JMM<sup>+</sup>21, MBF<sup>+</sup>21, PB23, PBB<sup>+</sup>20, Ste09b, SKP<sup>+</sup>22, AAB<sup>+</sup>21b]. **Encoder** [BKRSR09]. **Encoding** [DLY<sup>+</sup>98]. **encryption** [KV19, Lap22]. **End** [BV11, GHM<sup>+</sup>10, LD07, NKiN<sup>+</sup>08, PA11, PKC23, Rao02, SC09]. **End-To-End** [GHM<sup>+</sup>10, Rao02, SC09, PKC23]. **Endangered** [BB02]. **Endmember** [HC08]. **endpoints** [DGB<sup>+</sup>14]. **energetic** [GSK<sup>+</sup>15]. **energies** [PUR94]. **Energy** [BEH<sup>+</sup>90, ECG<sup>+</sup>13, HTSK90, IHMM87, KLR<sup>+</sup>21, LTPK17, LWT<sup>+</sup>11, Mir90, SGFC09, YCHH90, ZOF90, ATD17, BDC21, BRGR11, BLOR18, BBMB19, CHT<sup>+</sup>19, EJD<sup>+</sup>19, JdSA<sup>+</sup>17, LWL<sup>+</sup>23, LRLG19, MBT<sup>+</sup>24, SKSG19, Kit90]. **energy-efficient** [BBMB19]. **Energy-optimal** [LTPK17]. **energy-saving** [SKSG19]. **Engine** [DCL<sup>+</sup>08, HBSP08, WZHG17, SS10]. **Engine-Driven** [DCL<sup>+</sup>08]. **Engineering** [Bro88, Dar00, DW97, Joh01, MMS88, Nas92, PK04, ADMP18, EHTW21, LSID23, VMPW20, WH20, Mar88a]. **Enhance** [WVL<sup>+</sup>16]. **Enhanced** [BPK<sup>+</sup>07]. **Enhancement** [AAC<sup>+</sup>97, WT99]. **Enhancements** [BDG<sup>+</sup>95, ZKS<sup>+</sup>24]. **Enhancing** [FSC<sup>+</sup>11, HLW<sup>+</sup>16, KSM23, VLLGT<sup>+</sup>24, VIKM<sup>+</sup>22, Akb24]. **Ensemble** [BBR10, FR22, HLNW25, PB23, VSS<sup>+</sup>13]. **ensemble-based** [FR22]. **Entity** [BGF02]. **Entropy** [CBW95]. **entry** [CSGM17]. **Environment** [AAF<sup>+</sup>01, CCH<sup>+</sup>88, DD91, DL97, DLB07, GL97, MM90, dPiA03, ABH<sup>+</sup>18, ASA19, ARPY19, KKL<sup>+</sup>19, LSS93, WLVL<sup>+</sup>96]. **Environmental** [DLY<sup>+</sup>98, TMMR10, OLOF23]. **Environments** [Ano01a, CWHP99, CDH<sup>+</sup>97b, DD06, Dee10, DFH<sup>+</sup>96, DCL<sup>+</sup>08, Eyr06, FSS13, Gan88, HBSP08, Mat95, MA89, RIF01, THC<sup>+</sup>96, WvNM<sup>+</sup>06, ADMP18, CCBS11, HI12, HI13, IVG<sup>+</sup>20, IH15, NC18]. **Epidemic** [KDNE18]. **epidemiological** [BEW16]. **Epiphany** [VEMR17]. **epistasis** [WLG<sup>+</sup>18]. **epistatic** [PFGDM20]. **EQSIM** [MTW<sup>+</sup>22]. **Equation** [BFLL99, BEF<sup>+</sup>95, Fro91, IKY<sup>+</sup>10, Key09, ALE<sup>+</sup>20, EKF<sup>+</sup>19, KRR19]. **Equation-Based** [Key09]. **Equations** [Meu88, SBF90, SMW87, BDE<sup>+</sup>25, KS89, RMS<sup>+</sup>18, ZZG<sup>+</sup>14]. **Equilibration** [NKR90]. **Equilibrium** [JP93, NK89]. **equipped** [EM23]. **equivalent** [GKR<sup>+</sup>22]. **Era** [BM13, ME14, BTZ<sup>+</sup>25, WD21, BM12, Con88]. **Erratum** [KR95]. **error** [BSS15]. **Errors** [FCLG07, LFB<sup>+</sup>15, SLL<sup>+</sup>19, YZC<sup>+</sup>15]. **Estimates** [LS06, McN89]. **estimating** [BDC21]. **Estimation** [LR09, LRO10, BE17, LNSMMA15, SH93]. **ETA** [DD89]. **ETA-10P** [DD89]. **Ethylene** [DVC88]. **Euler** [ZB20]. **Eulerian** [INY<sup>+</sup>14]. **European** [ISD89, MHW15, PHB04]. **EUROPVM** [OL05]. **EUROPVM/MPI** [OL05]. **EuroPVMMPI** [KKDV03]. **EV7** [KHP<sup>+</sup>04]. **evacuation** [GDS17]. **Evaluate** [WGI90]. **Evaluating** [BBDR95, GFD05, LRG<sup>+</sup>16, NCA21, VC89, YFS<sup>+</sup>14, KdOCR<sup>+</sup>20, OLOF23]. **Evaluation** [ATN<sup>+</sup>00, ABF<sup>+</sup>08, Ano87b, BCK<sup>+</sup>89, BIC<sup>+</sup>10, BFNV07, BG02, BDG<sup>+</sup>00, CDQS04, CLP<sup>+</sup>99, KHP<sup>+</sup>04, NOM<sup>+</sup>19, RBL08, SWHP05, WOG95, YIN<sup>+</sup>11, AKP<sup>+</sup>18, BBG<sup>+</sup>14, BHL<sup>+</sup>24, HIT<sup>+</sup>14, JCK21, KKB<sup>+</sup>21, NMI<sup>+</sup>19]. **Evaluations** [PPK09]. **Event** [NRR97, BEW16, DAB<sup>+</sup>12]. **event-based** [BEW16]. **event-driven** [DAB<sup>+</sup>12]. **Events** [BG00, JDAD19]. **Eviction** [BH06]. **Evolution** [DAC<sup>+</sup>14, GAA<sup>+</sup>25, LBP18, WJS<sup>+</sup>90, CNW<sup>+</sup>23]. **evolution-AI-based** [CNW<sup>+</sup>23]. **evolutionary** [CdVL<sup>+</sup>18, JCK21, ZBH<sup>+</sup>23, HdV18]. **Exa** [MAF<sup>+</sup>22]. **ExaAM** [TBB<sup>+</sup>22]. **Exact** [ZK93]. **EXAGRAPH** [AAB<sup>+</sup>21b]. **ExaLearn** [AAB<sup>+</sup>21c]. **Example** [NBB<sup>+</sup>96, HPS<sup>+</sup>22]. **ExaSAT** [UCZ<sup>+</sup>15].

**Exascale**

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

KDNE18, PBE<sup>+19</sup>, WD21]. **Extreme-scale** [ZKRA14, AMB<sup>+18</sup>, BEK<sup>+18</sup>, DCM<sup>+17</sup>, FAB<sup>+21</sup>, INS<sup>+20</sup>]. **extremely** [Ade21].

**face** [CdVL<sup>+18</sup>]. **facilities** [ZKS<sup>+24</sup>].

**Facility** [Ano87a, Don89]. **FACOM** [IHMM87]. **Factor** [DH96]. **Factorization** [DD89, DD91, IGDQO19, Jea13, LM23, MY24, YIYD19]. **factorizations** [DEKV92]. **Failure** [GCSK13, KS05, Ano19, BBH<sup>+13</sup>, BBG<sup>+18</sup>, KDNE18]. **failures** [SWA<sup>+14</sup>, TNLP13]. **far** [KKB<sup>+21</sup>]. **farm** [KBY<sup>+19</sup>]. **Farming** [CKPD99, MBHF15]. **Fast**

[BGM15, BEW16, BMT89, CvG11, DIB00, NDMR20, PS12, PFGDM20, SWW94, TQOA23, IYK16, KKB<sup>+21</sup>, KDH18, RTRZ22, SCR11, TKS88, TDM<sup>+17</sup>, YB12, CKE08, KNP<sup>+87</sup>, LDW<sup>+12</sup>, MJ04]. **Fault** [BHK<sup>+06</sup>, Cap09, FD04, FGC<sup>+05</sup>, GKP97, GL04, JSSZ09, KWB06, WvNM<sup>+06</sup>, ASHH16, AG18, BBA<sup>+21</sup>, LRG<sup>+16</sup>, MSHPV18, MTW<sup>+22</sup>, SKZ<sup>+18</sup>, Sta19, SMZ<sup>+18</sup>, YZC<sup>+15</sup>]. **fault-to-structure** [MTW<sup>+22</sup>]. **fault-tolerance** [SMZ<sup>+18</sup>].

**Fault-Tolerant**

[BHK<sup>+06</sup>, FD04, WvNM<sup>+06</sup>, ASHH16].

**faults** [RMS<sup>+18</sup>]. **Faulty** [LK01]. **FEA**

[CSGM17]. **Feasibility**

[KR94, KR95, CCO<sup>+19</sup>]. **Feature**

[PTGB02, STP<sup>+13</sup>]. **Feature-based**

[STP<sup>+13</sup>]. **features**

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

**February** [Sci92]. **federation** [Har11].

**Feedback** [CGB<sup>+94</sup>]. **Feedback-Scaling**

[CGB<sup>+94</sup>]. **Feel** [ZWS21]. **Feel-the-Way**

[ZWS21]. **FEM** [MK24, RMV<sup>+19</sup>]. **Fermi**

[NTD10]. **Fermions** [ZK93]. **Fernbach**

[Mar91]. **FETI** [GCD97, RMV<sup>+19</sup>]. **FFT**

[Bai88, GGS01, KMPJ08, Wad99].

**FFT-Based** [GGS01]. **Fidelity**

[SKP<sup>+22</sup>, TBB<sup>+22</sup>]. **Field**

[HC08, HSLK11, KKB<sup>+21</sup>, PUR94, VSHN14].

**fight** [ABL<sup>+22</sup>]. **File** [BIC<sup>+10</sup>, GCCC<sup>+03</sup>,

- LRT07, kLCCW07, HLW<sup>+</sup>16]. **Film** [MD99]. **films** [GSK<sup>+</sup>15]. **filter** [LGDH16]. **filtering** [LMT<sup>+</sup>12]. **Finalists** [dS21]. **Financial** [BE07, HZ91]. **Finding** [dRADS<sup>+</sup>18b, FCLG07, PB23]. **Fine** [ACM88, BBG<sup>+</sup>10, LH18, WvNM<sup>+</sup>06, HTD<sup>+</sup>14, KSF22]. **Fine-Grain** [ACM88]. **Fine-Grained** [BBG<sup>+</sup>10, WvNM<sup>+</sup>06, LH18, HTD<sup>+</sup>14, KSF22]. **Finite** [AJL<sup>+</sup>97, BBA87, CC95, CBV97, EGG05, GCD97, KM95, MMD98, MS02, MS05, PH19, PLS05, THC<sup>+</sup>96, THL88, de 89, AAB<sup>+</sup>24b, AFL<sup>+</sup>18, BSW<sup>+</sup>14, DWT<sup>+</sup>19, EKF<sup>+</sup>19, KFM<sup>+</sup>21, KSM23, LH19, MSP<sup>+</sup>24, PKC23, RTRZ22, SMK<sup>+</sup>20, ŠCKW19, VSW<sup>+</sup>22, WKLW21]. **Finite-Element** [MS02, BSW<sup>+</sup>14, KSM23]. **Finite-Volume** [MS05, LH19]. **First** [DQFW90, GKN<sup>+</sup>96, TMWS91, HIT<sup>+</sup>14, MMDA19]. **first-principles** [HIT<sup>+</sup>14]. **fission** [BHZ<sup>+</sup>23]. **Fitness** [JCK21]. **fixed** [BSK14]. **Flames** [EDS95, SG91]. **FLASH** [DAC<sup>+</sup>14, JKD<sup>+</sup>11]. **flexibility** [BHC<sup>+</sup>25]. **Flexible** [GMLP08, CVJ12, DGB<sup>+</sup>14]. **Flink** [KWEF18]. **FLO67** [WLB92]. **Floating** [BSBF89, CDL<sup>+</sup>19, LH18]. **floating-point** [CDL<sup>+</sup>19, LH18]. **flood** [HPW<sup>+</sup>16]. **Flow** [ABF<sup>+</sup>99, DD06, HKK88, PGTS10, RKKC90, SS89, SK90, CDL20, FIMU19, HHSM19, KDH18, LNR<sup>+</sup>24, LSS93, WDW<sup>+</sup>12, ZB20]. **Flowfield** [MKG90]. **Flows** [CB95, GMWG10, MYC92, PGK<sup>+</sup>24, dFRD<sup>+</sup>23]. **Fluid** [Cha88, DFMD94, Gen88, HL10, JL89, KT99, LWL05, PGTS10, RBMF87, SWW94, SS89, SK90, YW93, KC18, LSS93, PDDI22, PGK<sup>+</sup>24]. **Fluid-Structure** [KT99, KC18]. **fluids** [HBKR21]. **Fluorinated** [DFC90]. **fly** [GSA<sup>+</sup>19]. **Fock** [MMDA19, CLM<sup>+</sup>16, KKCB98, TMW<sup>+</sup>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<sup>+</sup>24, KMJ<sup>+</sup>23, KR94]. **Fortran90** [LJO05]. **Forum** [Don02a, Don02b]. **Forward** [AK93, Luc09, THL88, HRW19]. **Foundation** [Web91, Blo87]. **Four** [Tho90]. **Four-Band** [Tho90]. **Fourier** [KNP<sup>+</sup>87, LDW<sup>+</sup>12, MJ04, SSCF19]. **FP32** [OY22]. **FPGA** [HC08, MHS11, PC08a, RHK21, RGB<sup>+</sup>18]. **FPS** [LT88]. **Fracture** [BG00, LPB<sup>+</sup>16]. **Framework** [CAK<sup>+</sup>07, DGJ09, IYV04, PGTS10, SSB<sup>+</sup>05, SB04, SKP<sup>+</sup>22, TMMR10, vLRA<sup>+</sup>03, FKA<sup>+</sup>17, FR22, GEKO19, GDM<sup>+</sup>23, IGA24, JBOT19, MBC<sup>+</sup>18, MTW<sup>+</sup>22, MS19, PPC<sup>+</sup>16, PB19, SE12, SMZ<sup>+</sup>18, TDG<sup>+</sup>19, YWL<sup>+</sup>14, CTD<sup>+</sup>05]. **frameworks** [LNR<sup>+</sup>24]. **Frankenstein** [Wit92]. **Free** [LWL<sup>+</sup>23, MT89, KSM23, LBB17, PHF21, SMK<sup>+</sup>20, VIKM<sup>+</sup>22, VSW<sup>+</sup>22]. **Free-Lagrange** [MT89]. **freedom** [TAM<sup>+</sup>16]. **Frequency** [TC10, CSGM17, SKSG19]. **front** [FIMU19]. **Frontwidth** [BMWD87]. **FSAI** [IJB22]. **FTS** [BE18]. **fuel** [BHZ<sup>+</sup>23]. **Fueling** [Her91]. **Fugaku** [ABL<sup>+</sup>22, HYY<sup>+</sup>22]. **Fujitsu** [Ish91]. **Full** [AEPR92, JRT16, LK01, Ano22a, NBE<sup>+</sup>22, RAB<sup>+</sup>15, THC<sup>+</sup>11]. **full-physics** [Ano22a, NBE<sup>+</sup>22]. **Full-wave** [JRT16]. **Fully** [HR97, YW93, CH13, EAG<sup>+</sup>19]. **Fun** [RAGW93]. **Function** [ODD07, PPK09, ZOF90, EKF<sup>+</sup>19]. **function-generated** [EKF<sup>+</sup>19]. **Functional** [LR07, QSX<sup>+</sup>20]. **Functions** [LS06]. **Fundamental** [MR90]. **Fusion** [ACG<sup>+</sup>90, BGB<sup>+</sup>18, DSD<sup>+</sup>91, FWSW02, FP02, YK04, SKP<sup>+</sup>22, WET<sup>+</sup>19]. **Future** [BSBF89, HBSM03, Wil87, BAP<sup>+</sup>12, CNW<sup>+</sup>23, DPA<sup>+</sup>18]. **FV** [LMT<sup>+</sup>12]. **fv3** [SDF<sup>+</sup>17]. **FVCOM** [Cow08]. **FX** [DD91]. **FX/80** [DD91].

**G** [MCS<sup>06</sup>]. **G2** [Cot04]. **Galaxies** [Her91, NBB<sup>+96</sup>]. **Galarkin** [AWWG19, MSP<sup>+24</sup>]. **Games** [EGMP93]. **GANESH** [BPK<sup>+07</sup>]. **Gap** [SS99]. **Gas** [CH94, LRBS89, MKG90, BHZ<sup>+23</sup>]. **Gases** [WBMY90]. **GASPI** [SKZ<sup>+18</sup>, SIC<sup>+19</sup>]. **Gate** [HC08]. **Gather** [TRS<sup>+10</sup>]. **Gauge** [Mor89a]. **Gaussian** [LSLD23]. **GEMM** [NTD10]. **Gene** [MAB<sup>+13</sup>, RS03, YIN<sup>+11</sup>, GNB11, KMH<sup>+14</sup>, SSU<sup>+12</sup>]. **Gene/P** [MAB<sup>+13</sup>, GNB11, SSU<sup>+12</sup>]. **Gene/Q** [KMH<sup>+14</sup>]. **General** [IGA24, PLS05, VC89, BE17, CRS<sup>+19</sup>, MMHL11, WWC<sup>+24</sup>]. **general-purpose** [BE17]. **generalized** [HTD<sup>+14</sup>, HPA<sup>+22</sup>, NS21, GLGLB<sup>+11</sup>]. **generated** [EKF<sup>+19</sup>]. **Generation** [DE03, HT04a, KMPJ08, BAP<sup>+12</sup>, HBKR21, LDLD19, MFB<sup>+19</sup>, MMDA19, TRS13, VRB<sup>+19</sup>, WD24, ZKRA14]. **generative** [JMM<sup>+21</sup>]. **Generator** [PMS<sup>+04</sup>, DL09]. **Generic** [CAK<sup>+07</sup>, HLC<sup>+19</sup>]. **Genetic** [RS03, NMAE13]. **Genome** [ZBH<sup>+23</sup>, GDKWS15]. **Genome-scale** [ZBH<sup>+23</sup>]. **genome-wide** [GDKWS15]. **genomic** [MBC<sup>+18</sup>]. **GenSLMs** [ZBH<sup>+23</sup>]. **Geodesy** [BGG05]. **geographically** [CvG11]. **geophysical** [CMN12]. **geophysics** [MTW<sup>+22</sup>, SCD<sup>+19</sup>]. **GFLOP** [SBF90]. **Ginkgo** [CNR<sup>+24</sup>]. **Glass** [YSN90]. **Global** [ATN<sup>+00</sup>, Ald89, CZR<sup>+11</sup>, DBA<sup>+09</sup>, GS05, MHW15, SBG10, Tho90, WBMY90, DFT<sup>+15</sup>, TLdS22, TAM<sup>+16</sup>, WDH<sup>+15</sup>, NPT<sup>+06</sup>]. **Global-Address-Space** [SBG10]. **Global-aware** [CZR<sup>+11</sup>]. **Globalized** [GKMT00]. **Globally** [SH93]. **Globus** [FK97, ZKS<sup>+24</sup>]. **GloVe** [dPiA03]. **Glow** [YW93]. **Gluons** [BOD<sup>+91</sup>, BEH<sup>+90</sup>]. **GM** [ARPY19]. **GMRES** [AAG<sup>+23</sup>]. **Going** [Her09]. **good** [NDMR20]. **Goodput** [BL99]. **Gordon** [BBD<sup>+17</sup>, dS21]. **gossip** [CGW19]. **gossip-inspired** [CGW19]. **GPFS** [BIC<sup>+10</sup>]. **GPU** [ABC<sup>+24</sup>, APD<sup>+15</sup>, KDH11]. **GPU** [ABC<sup>+24</sup>, AWWG19, Ano22a, ATL<sup>+15</sup>, ARPY19, BGM15, BJWS20, CSGM17, CS14, DAD<sup>+22</sup>, EM23, EEL15, GHL15, GDKWS15, GGO16, HTD<sup>+14</sup>, IJB22, JC12, JKBW18, JCK21, KTWL18, KKL<sup>+19</sup>, KNPS21, LPB<sup>+16</sup>, LM23, MC21, MPD<sup>+12</sup>, MJGL13, MGFP20, NBE<sup>+22</sup>, OKTR11, OF17, PGK<sup>+24</sup>, PKC23, PS12, PNFC16, PFGDM20, RV15, RPdB<sup>+19</sup>, SZC12, SPTT08, SE12, SKS<sup>+13</sup>, SDI<sup>+19</sup>, SK20, SSCF19, TM23, VSW<sup>+22</sup>, VMPW20, WDW<sup>+12</sup>, YLL<sup>+14</sup>, ZZG<sup>+14</sup>]. **GPU-accelerated** [AWWG19, CSGM17, IJB22, KNPS21]. **GPU-based** [ATL<sup>+15</sup>, JKBW18, JCK21, MJGL13, PGK<sup>+24</sup>, SDI<sup>+19</sup>]. **GPU-enabled** [Ano22a, NBE<sup>+22</sup>]. **GPU-equipped** [EM23]. **GPUDirect** [OGM<sup>+16</sup>]. **GPUs** [Ano24, ATD17, AKP<sup>+18</sup>, BLU<sup>+22</sup>, DEQO21, EHTW21, FT19, HDL<sup>+15</sup>, HBKR21, HPW<sup>+16</sup>, KMJ<sup>+23</sup>, MY24, NCA21, NS21, PF16, SFLC18, TKA<sup>+17</sup>, WWC<sup>+24</sup>]. **Gradient** [AH93, CSV91, MG87, DHL16, IVG<sup>+20</sup>, IGA24, KSM23, KMM16, PSV<sup>+16</sup>, PF16]. **Gradient-like** [CSV91]. **GrADS** [BCC<sup>+01</sup>]. **Grain** [ACM88]. **Grained** [BBG<sup>+10</sup>, BGB<sup>+96</sup>, DZRS99, WvNM<sup>+06</sup>, HTD<sup>+14</sup>, KSF22, LH18]. **Grand** [BEH<sup>+90</sup>, CBB<sup>+96</sup>, DSD<sup>+91</sup>, Kit90]. **granularity** [LQJG16, SKSG19]. **GRAPE** [CKE08]. **Graph** [AAB<sup>+21b</sup>, BBT23, CDT05, JRP<sup>+23</sup>, Akb24, CSC19, GLZS14]. **graphic** [LQJG16, PH19, YZZW21]. **Graphical** [DMQS12, KDO16]. **Graphics** [CLF87, GLGLB<sup>+11</sup>, LP10, MA15, NTD10, RBMF87, Sal87, AJ24, AAG<sup>+23</sup>, BE17, CMMW23, CLG13, CGBL25, GHHS15, Mon12, RDG12, RWM17, SO23, TQOA23, VBVD22, ZCZ<sup>+13</sup>]. **Graphs** [LK01]. **Gravitational** [SWW94]. **Gravity** [Ham91]. **Great** [BAM<sup>+16</sup>]. **Green** [ODD07]. **Greenbook'** [HBSM03]. **Greenhouse** [WBMY90]. **Grid** [CKPD99, Lee03, SBWS99, ASHH16,

BCYS11, HLZ<sup>+</sup>20, LNR<sup>+</sup>24, MCR<sup>+</sup>17, MYG23, PPC<sup>+</sup>16, PS12, AEG<sup>+</sup>03, AAF<sup>+</sup>01, AGR<sup>+</sup>03, BCCL09, BCM<sup>+</sup>03, BCC<sup>+</sup>01, BPK<sup>+</sup>07, BSCC03, BCC<sup>+</sup>06, CD06, CBSB01, CBB<sup>+</sup>04, CBL06, CCBS11, CY08, DCL<sup>+</sup>08, FKT01, GHM<sup>+</sup>10, GRC08, GHZ10, HBSP08, HT04a, HLP<sup>+</sup>03, Hua03, HWP03, KHK<sup>+</sup>09, LM03, MWM<sup>+</sup>08, Mat03, MCS<sup>+</sup>06, PPK09, PBD<sup>+</sup>01, PHB04, QH08, RIF01, RTRG<sup>+</sup>07, SWG<sup>+</sup>03, Wal03, WBFB04, WPBB01, WHL03, WvNM<sup>+</sup>06, YBA<sup>+</sup>03].

**Grid-Based** [GRC08, QH08, LM03].

**Grid-Enabled** [CBB<sup>+</sup>04, MWM<sup>+</sup>08].

**Grid-Ireland** [MCS<sup>+</sup>06]. **Grid’5000** [BCC<sup>+</sup>06]. **Gridded** [ZM07]. **GridLab** [AGR<sup>+</sup>03]. **GridPACK<sup>TM</sup>** [PPC<sup>+</sup>16].

**GridRPC** [CJ06]. **Grids** [DT99, DT11, Joh01, Ma00, VR00, LAZ<sup>+</sup>24, MMHL11, MGB12, MYG23, Sta19, BKS<sup>+</sup>07, BBH<sup>+</sup>06, Dee10, Fra05, GMLP08, IKY<sup>+</sup>10, MS09, SG07, SW04, TCW06, vLRA<sup>+</sup>03].

**GridSolve** [YSS<sup>+</sup>06]. **Groundwater** [ABF<sup>+</sup>99, MMD98]. **Group** [Bus87, BCR<sup>+</sup>14]. **Growth** [BCZM07, Blo87, Cla91]. **Guest** [DT18, DT19, DT23, WD21, BM13, Cec20, DT17, WD18, WD19, WD24, dA03].

**guidance** [SDJ17]. **Guided** [FBBC03, BEK<sup>+</sup>18]. **GWAS** [WLG<sup>+</sup>18].

**Gyrofluid** [KPM<sup>+</sup>96]. **gyrokinetic** [IMW<sup>+</sup>13, INY<sup>+</sup>14, WET<sup>+</sup>19].

**Hadoop** [CdVL<sup>+</sup>18]. **Hadron** [GKH<sup>+</sup>91, Liu90]. **Haidar** [Ano24]. **HAMR** [WZHG17]. **Harbor** [BBC<sup>+</sup>00]. **hard** [RMS<sup>+</sup>18]. **Hardware** [BH06, KS09b, Spr06, Ano24, BLU<sup>+</sup>22, HDL<sup>+</sup>15, MCU<sup>+</sup>13, MFOAGE18, RTRZ22].

**hardware-accelerated** [BLU<sup>+</sup>22]. **Hari** [NS21]. **Harmonics** [KMPJ08]. **Harnessing** [HLH<sup>+</sup>19]. **Hartree** [CLM<sup>+</sup>16, KKCB98, MMDA19, TMW<sup>+</sup>99].

**HDF5** [BTZ<sup>+</sup>25]. **Head** [GKB93]. **Heavy** [QH08, Reu92]. **Heavy-Ion** [Reu92].

**Helicity** [DVC88]. **Helium** [Fro91]. **Helix** [PRT90]. **Helmholtz** [BEF<sup>+</sup>95].

**hemodynamics** [AFL<sup>+</sup>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<sup>+</sup>96, RAGW93, RRV06, TM23, VLO<sup>+</sup>08, dRADS<sup>+</sup>18a, BHZ<sup>+</sup>23, BJWS20, CMS<sup>+</sup>11, CGST19, EDB19, GBB18, HLNW25, HGWN14, IMW<sup>+</sup>13, INS<sup>+</sup>20, LST15, LDW<sup>+</sup>12, MFP<sup>+</sup>17, NC18, OLOF23, PB23, SB19, UZM<sup>+</sup>14, ZSL<sup>+</sup>23, BM12].

**HeteroMPI** [VLO<sup>+</sup>08]. **Heuristic** [SG07].

**Heuristics** [CJ06]. **HHT** [LSES20]. **Hi** [TDM<sup>+</sup>17]. **Hi-C** [TDM<sup>+</sup>17]. **hierarchic** [EDB19]. **Hierarchical** [DD06, GJMS88, HJ96, HWP03, IGDQO19, PBAL09, SG09a, WT99, DSH<sup>+</sup>16, GBB18, HPA<sup>+</sup>22, LSLR<sup>+</sup>20, MJD16, Wal18, ZBMK11].

**hierarchies** [BGI<sup>+</sup>25]. **Hierarchy** [HL10, YK04]. **High** [AAB<sup>+</sup>24b, Ano87d, Ano87f, Ano94a, Ano94c, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, Ano98b, Ano98a, Ano99, Ano00, Ano01b, Ano24, ARR99, Aus92, Bai88, BV11, BGI<sup>+</sup>99, BCC<sup>+</sup>01, BAA<sup>+</sup>06, BBT23, BEH<sup>+</sup>90, BEF<sup>+</sup>95, BRT<sup>+</sup>92, CWHP99, CC95, CDP<sup>+</sup>94, CSY10, CB95, CJK<sup>+</sup>05, DTDP14, DFS<sup>+</sup>05, DGJ09, DBA<sup>+</sup>09, DHL16, lSD89, EKD<sup>+</sup>12, FGC<sup>+</sup>05, FGJ<sup>+</sup>04, GBB18, GHM<sup>+</sup>10, GHL15, GVR<sup>+</sup>21, GMWG10, GSK<sup>+</sup>15, HLRK24, HSLK11, IS96, IKY<sup>+</sup>10, KDH11, KBA00, Kep04a, KWB06, KFM<sup>+</sup>21, Kuc04, KMM16, LST15, LPB<sup>+</sup>16, LD07, MAB07, MSPSI15, NKiN<sup>+</sup>08, NFK98, NTKP06, PPK<sup>+</sup>04, PPK09, PA11, Poz97, Pra01, QWIC02, Sab91, STS17, SKB01, Ste01, Ste04, SKP<sup>+</sup>22, SKC10, TR17, THL88, TMW<sup>+</sup>99, THDC09, VRB<sup>+</sup>19, Wad99, WLC91, WLG<sup>+</sup>18, WOS08, YSP<sup>+</sup>05, AAG<sup>+</sup>23, AFGQO19,

- AGHR19, BAM<sup>+</sup>16, BLU<sup>+</sup>22, BLC17]. **high** [BBA<sup>+</sup>21, BAP<sup>+</sup>12, CSS24, CGW19, Cec20, CZR<sup>+</sup>11, CNW<sup>+</sup>23, DVW<sup>+</sup>12, DAD<sup>+</sup>22, DAC<sup>+</sup>14, ECG<sup>+</sup>13, EB23, Fem90, FMR<sup>+</sup>20, GR17, GSND20, Har11, HBKR21, IYK16, IFA15, JRT16, KSM23, LAZ<sup>+</sup>24, LDLD19, LH19, MDW<sup>+</sup>23, MCU<sup>+</sup>13, MK24, OGM<sup>+</sup>16, PPC<sup>+</sup>16, PSV<sup>+</sup>16, PKC23, PF16, ŚCKW19, TLdS22, TNLP13, Udd17, VSW<sup>+</sup>22, WDH<sup>+</sup>15, WD19, WD24, Mar87a]. **High-Cost** [PPK09]. **high-density** [HBKR21]. **High-End** [BV11, NKiN<sup>+</sup>08, PA11]. **high-intensity** [JRT16]. **High-Level** [BCC<sup>+</sup>01, GBB18, Udd17]. **High-Order** [CC95, KFM<sup>+</sup>21, KSM23, LH19, MK24, OGM<sup>+</sup>16, PKC23, ŚCKW19, VSW<sup>+</sup>22]. **High-Performance** [Bai88, BAA<sup>+</sup>06, BBT23, BRT<sup>+</sup>92, CSY10, DGJ09, DBA<sup>+</sup>09, lSD89, HSLK11, IKY<sup>+</sup>10, KWB06, PPK<sup>+</sup>04, Sab91, TMW<sup>+</sup>99, THDC09, AAB<sup>+</sup>24b, DTDP14, DHL16, EKD<sup>+</sup>12, GHL15, GMWG10, GSK<sup>+</sup>15, KDH11, KMM16, LST15, LPB<sup>+</sup>16, SKC10, TR17, VRB<sup>+</sup>19, WLG<sup>+</sup>18, AAG<sup>+</sup>23, AFGQO19, BBA<sup>+</sup>21, BAP<sup>+</sup>12, CSS24, CGW19, Cec20, CZR<sup>+</sup>11, DAC<sup>+</sup>14, ECG<sup>+</sup>13, EB23, Fem90, FMR<sup>+</sup>20, GR17, GSND20, Har11, IYK16, IFA15, LAZ<sup>+</sup>24, MDW<sup>+</sup>23, PPC<sup>+</sup>16, PSV<sup>+</sup>16, PF16, TNLP13]. **high-precision** [DAD<sup>+</sup>22]. **High-Pressure** [WLC91]. **High-Resolution** [DFS<sup>+</sup>05]. **high-risk** [CNW<sup>+</sup>23]. **High-Speed** [Ano87d, BAM<sup>+</sup>16, Mar87a]. **High-Throughput** [GHM<sup>+</sup>10, GVR<sup>+</sup>21, AGHR19]. **High-Wave** [BEF<sup>+</sup>95]. **Higher** [Mah90]. **Highly** [Ade21, BG22, BCC<sup>+</sup>06, HBKR21, HLK<sup>+</sup>23, Sim90, KKB<sup>+</sup>21, PS12, WKW21]. **HIP** [KNPS21, TM23]. **HipBone** [CMMW23]. **History** [MT89, ZC92, Bra91]. **Hitachi** [WOG95]. **HLA** [RTRG<sup>+</sup>07]. **HMapper** [GPO<sup>+</sup>20]. **Hoc** [IBC<sup>+</sup>10, TNBG07, AAA<sup>+</sup>25, BG02, CHZ02]. **hole** [HLZ<sup>+</sup>20]. **HOMME** [CAE<sup>+</sup>13, DDKK19]. **homogeneous** [IMW<sup>+</sup>13]. **Homotopy** [DZRS99]. **HONPAS** [QSX<sup>+</sup>20]. **Hop** [TNBG07]. **Hoshen** [CBV97]. **Hosted** [HBSM03]. **Hough** [GLGLB<sup>+</sup>11]. **hp** [KBY<sup>+</sup>19]. **hp-adaptive** [KBY<sup>+</sup>19]. **HPC** [Ano19, dS21, AGK<sup>+</sup>23, ABG<sup>+</sup>19, BBMB19, BBG<sup>+</sup>18, CRS<sup>+</sup>19, CYZ<sup>+</sup>20, CCBL18, GCSK13, GGMJF<sup>+</sup>20, Kep04b, KV19, KHK<sup>+</sup>09, Lap22, MDH<sup>+</sup>18, NMI<sup>+</sup>19, PMP<sup>+</sup>20, SSQ08, SGFC09, TNCC21, ZWS21]. **HPC-Based** [dS21]. **HPCC** [CBB<sup>+</sup>96]. **HPCG** [LYL<sup>+</sup>16]. **HPCToolkit** [AAB<sup>+</sup>24a]. **HPF** [BF01, DL97]. **HPF-Builder** [DL97]. **HPG** [GPO<sup>+</sup>20, IMB<sup>+</sup>19]. **HPG-HMapper** [GPO<sup>+</sup>20]. **HPVM** [CLP<sup>+</sup>99]. **HPVM-Based** [CLP<sup>+</sup>99]. **human** [ABH<sup>+</sup>18, BE17, GGMJF<sup>+</sup>20]. **Hut** [INS<sup>+</sup>20]. **Hybrid** [BBG<sup>+</sup>10, BBH<sup>+</sup>06, CWG09, MS02, MV20, MGFP20, RW03, BSK14, BBG<sup>+</sup>14, BHC<sup>+</sup>25, CAE<sup>+</sup>13, GHL15, GGO16, HTD<sup>+</sup>14, HLW<sup>+</sup>16, IVG<sup>+</sup>20, LYL<sup>+</sup>16, NOM<sup>+</sup>19, NMAE13, QSX<sup>+</sup>20, RMV<sup>+</sup>19, STP<sup>+</sup>13, SZC12, SDJ17, SMZ<sup>+</sup>18, SHK<sup>+</sup>18, TM23, THDS19, WSD<sup>+</sup>14]. **hybrid-core** [BBG<sup>+</sup>14]. **Hybridisation** [EMP<sup>+</sup>18]. **hydrodynamic** [HLH<sup>+</sup>19, SZC12]. **Hydrodynamics** [LRBS89, PGTS10, GEKO19, HF24, VSW<sup>+</sup>22]. **hydrostatic** [AWWG19]. **hydroxymethylation** [GPO<sup>+</sup>20]. **Hyperbolic** [FG97, CHT<sup>+</sup>19, LH19, RV15]. **Hypercube** [Din91, KLJ87]. **Hypercubes** [LK01]. **HYPERDOCK** [ILCLG20]. **Hypergraph** [Akb24]. **Hypergraph-based** [Akb24]. **hyperheuristics** [ILCLG20]. **Hyperspectral** [DF08, HC08, PC08a, SPTT08, VLO<sup>+</sup>08]. **I-WAY** [DFP<sup>+</sup>96, GKN<sup>+</sup>96, NBB<sup>+</sup>96]. **I/O** [BCP<sup>+</sup>20, BTZ<sup>+</sup>25, DLY<sup>+</sup>98, DEL<sup>+</sup>12,

IBC<sup>+10</sup>, KKCB98, KES<sup>+17</sup>, LPJ98, MMD98, MS95, NFK98, OWO98, PH91, SW01, SR98, TLG98, TD08, TNCC21, WWA<sup>+11</sup>. **IA** [PSV<sup>+16</sup>]. **IA-based** [PSV<sup>+16</sup>]. **IBM** [DEKV92, DD89, DD91, Gaf88, GNB11, KMH<sup>+14</sup>, MAB<sup>+13</sup>]. **Ice** [ZOF90, WCS<sup>+23</sup>]. **ice-sheet** [WCS<sup>+23</sup>]. **IceT** [GS99]. **icosahedral** [MYG23]. **idealized** [LPB<sup>+16</sup>]. **IDR** [AKP<sup>+18</sup>]. **IEH** [LK01]. **IESP** [GD09, Moh09]. **II** [Don02b, JP93, TDM<sup>+17</sup>]. **IJHPCA** [KM20, Mas19]. **illuminate** [CDG<sup>+21</sup>]. **ILU** [Ma00]. **Image** [AAC<sup>+97</sup>, BCJ01, CSY10, DIB00, DF08, PTGB02, Sal87, SPTT08, BGM15, TKA<sup>+17</sup>, THH<sup>+13</sup>, VBVD22, ZCZ<sup>+13</sup>]. **Imagery** [HC08, PC08a]. **Images** [VLO<sup>+08</sup>, RPdB<sup>+19</sup>, SKS<sup>+13</sup>]. **Imaging** [CBB<sup>+96</sup>, Wri12, JKBW18, SFLC18]. **imbalance** [CLVYC<sup>+24</sup>]. **IMEX** [LNR<sup>+24</sup>]. **immersed** [KSF22]. **Immersive** [THC<sup>+96</sup>]. **immiscible** [HBKR21]. **Impact** [Ald89, BRU05, Chu99, GJMS88, LC90, NMAE13, BHK<sup>+88</sup>]. **Impacts** [JPV23]. **Implementation** [AEPR92, BBS99, BCZM07, BBA87, BIC<sup>+10</sup>, BG00, BRM03, CL95, CLF87, Cho01, CTD<sup>+05</sup>, EKF<sup>+19</sup>, FD04, HJ96, IBC<sup>+10</sup>, INS<sup>+20</sup>, KLJ87, LMT<sup>+12</sup>, LT90, MC90, MS02, MG87, MS05, NMI<sup>+19</sup>, ODD07, SYF96, Tis97, ZZG<sup>+14</sup>, dRADS<sup>+18a</sup>, BG11, GDS17, HF24, KTWL18, LNSMMA15, MV20, MHW15, NMAE13, OKTR11, OGM<sup>+16</sup>, VMPW20, YZZW21]. **Implementations** [Ano01a, RR96, BDFVP15, ESD<sup>+22</sup>, KWEF18, KSM23, LWT<sup>+11</sup>, MK24]. **implemented** [BBDH14, PH19]. **Implementing** [CDT05, KV19, LRT07, YFH<sup>+96</sup>]. **Implications** [RES87]. **Implicit** [GKMT00, MS02, NS21, EAG<sup>+19</sup>, HLZ<sup>+20</sup>, KTP<sup>+24</sup>, KC18, AGC<sup>+19</sup>]. **Importance** [BCG<sup>+10</sup>, SC09]. **Important** [TC10, FAB<sup>+21</sup>]. **improve** [JdSA<sup>+17</sup>, LFB<sup>+15</sup>]. **Improved** [Ano87b, CMHB15, FSN08, NTD10, DMSMG18, INY<sup>+14</sup>]. **Improvement** [SVN09, KMM16]. **Improving** [ARPY19, BL99, BJK07, CGGC<sup>+16</sup>, DAB<sup>+12</sup>, ILCLG20, JMC05, KL13, MJD16, MW12, YK04, CSC24]. **in-depth** [JDAD19]. **in-memory** [WZHG17]. **In-Network** [OMDS23]. **in-situ** [MFB<sup>+19</sup>]. **Incomplete** [ILJ93, Kal09b, MC21]. **Increased** [DTL<sup>+21</sup>, WBMY90]. **Increasing** [CLVYC<sup>+24</sup>, PHC<sup>+10</sup>, WW92]. **Independent** [BRU05, BDE<sup>+25</sup>, CCRV20]. **Index** [Ano96b, Ano97d, Ano98b, Ano99, Ano00, Ano01b, Ano02n, Ano02l, Ano02m, HC08, BE07]. **INDIANA** [OMDS23]. **induction** [JCK21]. **Industrial** [DGP<sup>+97</sup>, GMWG10, LDGR03, JBOT19, VMPW20]. **inefficiency** [HGMW12]. **Inequality** [NK89]. **Inertial** [BGB<sup>+18</sup>]. **infection** [ABL<sup>+22</sup>]. **Infer** [RS03]. **inference** [KPST18]. **InfiniBand** [NOM<sup>+19</sup>, 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<sup>+03</sup>, OMDS23, Wal03, AAA<sup>+25</sup>]. **Infrastructures** [HdV18]. **inherently** [MY24]. **inhibitors** [BGB<sup>+22</sup>]. **Initial** [WLVL<sup>+96</sup>]. **Initiated** [SSB<sup>+05</sup>]. **Initio** [ASW91, HYY<sup>+22</sup>, LDLD19, SKE<sup>+23</sup>]. **injection** [CIWI17, WSD<sup>+14</sup>]. **Innovative** [MPS15]. **input** [Lap22, LCZ<sup>+15</sup>, WVL<sup>+16</sup>]. **input/output** [LCZ<sup>+15</sup>, WVL<sup>+16</sup>]. **inspired** [CGW19]. **Instance** [LJC<sup>+10</sup>]. **Instance-Intensive** [LJC<sup>+10</sup>]. **instances** [TR17]. **Institute** [Duk91, EM89, IHMM87]. **Instruction** [HRM89]. **Instrument** [CBB<sup>+04</sup>]. **Instrumentation** [TM99]. **Int** [Ano24]. **Integer** [Gro03, DAD<sup>+22</sup>, OGY24].

**Integrate** [BFLL99]. **Integrated** [CFK<sup>+</sup>94, GLZS14, MHW15, WBG06, FT19, PLJD24]. **Integrating** [TGS<sup>+</sup>22, WTL<sup>+</sup>25]. **Integration** [ACD07, QWIC02, BTRZ<sup>+</sup>19]. **Integrative** [KHK<sup>+</sup>09]. **integrators** [BDE<sup>+</sup>25]. **Intel** [GLZS14, HGD91, HLS<sup>+</sup>17, KLJ87, KR94, KR95, LSES20, SB19]. **Intelligence** [Ano87d, WPHS<sup>+</sup>25]. **Intelligent** [TGS<sup>+</sup>22]. **Intel(R)** [MMDA19]. **intensity** [JRT16, LH19]. **Intensive** [GMLP08, KUE<sup>+</sup>00, LJC<sup>+</sup>10, Mah90, ACF<sup>+</sup>11, FKA<sup>+</sup>17]. **Inter** [FWZ91]. **Inter-Semiconductor** [FWZ91]. **Interacting** [KWB06]. **Interaction** [AEPR92, Liu90, HYY<sup>+</sup>22, KC18]. **Interactions** [TMWS91, PFGDM20]. **Interactive** [CWHP99, CLF87, KPM<sup>+</sup>96, LSS93, RBMF87, RTRG<sup>+</sup>07, SS89, THC<sup>+</sup>96, VR00, WBFB04]. **Interchange** [YK04]. **interconnect** [SDI<sup>+</sup>19]. **interest** [CdVL<sup>+</sup>18]. **Interface** [Ano93d, Ano94b, BDG<sup>+</sup>00, KFM<sup>+</sup>10, LWOB97, MPI98, SLG95, ESW<sup>+</sup>12, IMS16, KTP<sup>+</sup>24, ZKRA14, BC14, BBH<sup>+</sup>06, BRU05, Cot04, GL04, IBC<sup>+</sup>10, KKDV03, KKD05, LK10, SWHP05, TGT05, ZRG<sup>+</sup>24]. **interfaces** [BG22]. **Interference** [KCC<sup>+</sup>06, TNCC21, CSC24]. **Interference-Aware** [KCC<sup>+</sup>06]. **Interleaving** [KNP<sup>+</sup>87]. **International** [Ano91b, Ano92g, Ano92e, Ano92f, Ano93a, Ano94a, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, Ano98a, Gaf88, Lee03, Ano98b, Ano99, DBA<sup>+</sup>09, DBM<sup>+</sup>11, Ano91a, Ano00, Ano01b]. **Internet** [EDSV06, Rao02]. **Interoperability** [Kal09b, LDB<sup>+</sup>06, SIC<sup>+</sup>19, EKD<sup>+</sup>12]. **Interpolation** [JLO05, SBBS06]. **Interpretation** [Fei99]. **Intrepid** [BWB<sup>+</sup>10]. **Introduction** [Ano02o, BM13, BL18, BQOS21, DT99, DT13, Hau94, KM20, Mas19, Nag93, OV13, Par23, SB18, SDS12, Ste01, Tur95, dS21, Ano22b]. **inundation** [HPS<sup>+</sup>22]. **Inverse** [Cho01]. **inverses** [MGFP20]. **inversion** [BGM15, HLRK24]. **Investigating** [CW05, PHF21]. **Investigation** [CK01]. **Investigations** [Mav02]. **investing** [DTL19]. **Invitation** [Mar87c]. **Invocation** [DP05]. **Involving** [MBF<sup>+</sup>11]. **IO** [BIC<sup>+</sup>10, JPV23, LRT07, WHGT22]. **IO-aware** [JPV23, WHGT22]. **Ion** [Reu92]. **ions** [KJF20]. **Iowa** [BCYS11]. **IPC** [Udd17]. **iPSC** [HGD91, KR94, KR95]. **iPSc/** [KR94]. **iPSC/860** [HGD91, KR95]. **Ireland** [MCS<sup>+</sup>06]. **Irregular** [Cza03, Man97, TRS<sup>+</sup>10, KPR17, MMHL11]. **ischaemic** [SKS<sup>+</sup>13]. **Ising** [BMT89, BRT<sup>+</sup>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<sup>+</sup>19, Par23, WH20, WD19, WD21, WD24, SDS12]. **issued** [CSGM17]. **Issues** [AD93, BMWD87, CLSS09, CEL<sup>+</sup>97, Dem90, EGMP93, Men00, GCSK13]. **Italy** [OL05]. **Iterated** [RR96]. **iterations** [MC21]. **Iterative** [BDL<sup>+</sup>07, CSV91, CMN12, CM97, FFR<sup>+</sup>10, MC90, MCW<sup>+</sup>00, PHC<sup>+</sup>10, SC04b, SCFK04, AKP<sup>+</sup>18, CSGM17, CvG11]. **Iteratively** [ML20].

**J** [Ano24]. **Jack** [Ano24]. **Jacobi** [BBDH14]. **Jaguar** [BWB<sup>+</sup>10]. **Jam** [MCG04]. **Japan** [EM89, IHMM87]. **Java** [BJK07]. **Jini** [Hua03]. **Jini-Based** [Hua03]. **JISGA** [Hua03]. **Job** [JPV23, GJMV18]. **Job-Scheduling** [JPV23]. **Josephson** [IKY<sup>+</sup>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<sup>+</sup>10]. **Jupiter** [Tho90].  
**Just** [BPBL11]. **Just-in-Time** [BPBL11].
- K-computer** [INY<sup>+</sup>14]. **Kepler** [HPW<sup>+</sup>16].  
**Kernel** [TM99, ALL13, BLU<sup>+</sup>22, Jon12, LNSMMA15]. **Kernels** [BELF07, IYV04, EHTW21, HCCG20, MAB<sup>+</sup>13, WKLW19].  
**key** [KV19, KES<sup>+</sup>17]. **keys** [BSK14].  
**kinetic** [EM23]. **Kinetics** [ARR99]. **KNC** [HCCG20]. **Knowledge** [AEG<sup>+</sup>03, Cap09, vLRA<sup>+</sup>03, ECG<sup>+</sup>13, KT94]. **Known** [Ano92h]. **Kokkos** [DWT<sup>+</sup>19, VLLGT<sup>+</sup>24].  
**Kopelman** [CBV97]. **Krylov** [GKMT00, ATL<sup>+</sup>15, AKP<sup>+</sup>18, CMN12, IGA24, MSKM21]. **Kutta** [KR11, RR96, RDPK22].
- L** [dSSB<sup>+</sup>08]. **LA-MPI** [YSP<sup>+</sup>05].  
**Laboratory** [ABF<sup>+</sup>08, Bus87, GVR<sup>+</sup>21, BBB<sup>+</sup>91b, Don89, DGH<sup>+</sup>93, HGD91].  
**LABS** [RRJ<sup>+</sup>20]. **Lagrange** [MT89, ZB20].  
**Lagrangian** [EM23, KRR19]. **LAM** [SSB<sup>+</sup>05]. **LAM/MPI** [SSB<sup>+</sup>05]. **Laminar** [EDS95, SG91]. **Land** [HVKW05].  
**landscape** [CYZ<sup>+</sup>20, GSND20]. **Language** [BGB<sup>+</sup>22, CCZ07, LD07, Pan92, Sha88, CH13, EKD<sup>+</sup>12, NMI<sup>+</sup>19, PHF21, ZBH<sup>+</sup>23].  
**Languages** [Kal09b, KKS04, YHG<sup>+</sup>07, JO92].  
**LAPACK** [ABC<sup>+</sup>24]. **Large** [AS00, AK91, AGL<sup>+</sup>87, BAM<sup>+</sup>16, BGG05, BDP01, BCCL09, Ber92, BWB<sup>+</sup>10, BBA87, BCC<sup>+</sup>06, CWHP99, CK01, Ede93, Ewi88, Fra05, FBW<sup>+</sup>87, GDKWS15, GMWG10, Gun00, HYY<sup>+</sup>22, HSLK11, Joh01, KMJ<sup>+</sup>23, KNP<sup>+</sup>87, KUE<sup>+</sup>00, LT88, LM03, LDW<sup>+</sup>12, LC06, MC90, MR04, MRD<sup>+</sup>15, Mor89b, NKR90, PPK<sup>+</sup>04, PS87, RGB<sup>+</sup>18, SE92, SD87, TRS<sup>+</sup>10, UF89, VS03, WT99, YRA<sup>+</sup>02, ZRC<sup>+</sup>06, ABH<sup>+</sup>18, Ade21, BLOR18, BCYS11, CvG11, DCD<sup>+</sup>13, EM23, EEL15, FR22, FU12, HIT<sup>+</sup>14, JBOT19, LWL<sup>+</sup>23, MBHF15, MJD16, OLOF23, PDDI22, RDG12, STP<sup>+</sup>13, SIC<sup>+</sup>19, VOL<sup>+</sup>14, ZBMK11, ZSL<sup>+</sup>23]. **Large-Scale** [AS00, AK91, BDP01, Ber92, BBA87, CWHP99, Ewi88, Fra05, Gun00, HSLK11, Joh01, KMJ<sup>+</sup>23, KUE<sup>+</sup>00, LC06, Mor89b, NKR90, SD87, YRA<sup>+</sup>02, ZRC<sup>+</sup>06, BAM<sup>+</sup>16, GDKWS15, GMWG10, HYY<sup>+</sup>22, LM03, LDW<sup>+</sup>12, MRD<sup>+</sup>15, BLOR18, EM23, EEL15, FR22, JBOT19, LWL<sup>+</sup>23, MBHF15, MJD16, OLOF23, PDDI22, STP<sup>+</sup>13, SIC<sup>+</sup>19, VOL<sup>+</sup>14]. **Largest** [Ano92h].  
**Largest-Known** [Ano92h]. **Latent** [WWA<sup>+</sup>11]. **Lattice** [BGK<sup>+</sup>90, Din91, JC12, LRBS89, Mor89a, MSK92, CGST19, HBKR21, Liu90, Mon12, OKTR11, RWM17, WKLW21, YIYD19, YZZW21, SBBS06].  
**Law** [HE01]. **laws** [Hea15, LH19]. **Lax** [YFS<sup>+</sup>14]. **layer** [LAZ<sup>+</sup>24]. **layout** [HLW<sup>+</sup>16, SZ11]. **layouts** [RWM17]. **Lazy** [BPBL11]. **LBLAS** [KJH96, JO92].  
**Leading** [OCC<sup>+</sup>08, SSQ08]. **Learned** [PK04, IKMS<sup>+</sup>19]. **Learning** [AH93, AAB<sup>+</sup>21c, AK93, CBM13, DMJS19, DEQO21, EEL15, EJD<sup>+</sup>19, JMM<sup>+</sup>21, KFJ20, KWEF18, LSLLD23, MP18, NSI20, OWC<sup>+</sup>21].  
**Leasing** [EW06]. **Legacy** [Ano02h].  
**legends** [MDW<sup>+</sup>23]. **Legion** [GNTLH97].  
**Length** [DLY<sup>+</sup>98, BSK14]. **lesions** [SKS<sup>+</sup>13]. **Lessons** [PK04]. **Level** [BCC<sup>+</sup>01, BBC<sup>+</sup>00, YK04, DEL<sup>+</sup>12, GBB18, IK18, LRG<sup>+</sup>16, Udd17, DD89, DD91].  
**leverages** [OLOF23]. **Leveraging** [CH13, LYL<sup>+</sup>16, SFLC18]. **libEnsemble** [HLNW25, WTL<sup>+</sup>25]. **Liber8Tion** [Pla09].  
**Libraries** [DMT01, GFD05, LDB<sup>+</sup>06, PBD<sup>+</sup>01, PMS<sup>+</sup>04, HMA<sup>+</sup>24, PH19].  
**Library** [BK07, CE00, MA15, BLC17, BBB<sup>+</sup>24, CNR<sup>+</sup>24, DWT<sup>+</sup>19, DEL<sup>+</sup>12, GAA<sup>+</sup>25, JC12, LNK22, Poz97]. **ligand** [HLK<sup>+</sup>23]. **Ligature** [KBA00]. **light** [HYY<sup>+</sup>22]. **light-matter** [HYY<sup>+</sup>22].  
**Lightspeed** [PPK<sup>+</sup>04]. **lightweight** [GS18, SSU<sup>+</sup>12]. **like** [CSV91]. **limitations** [CGW19, SPHW18]. **Limited** [KR11, TWK87]. **Limits** [Amd88, THH<sup>+</sup>13].

**Linda** [Mat95, SSNM92]. **Line** [LWOB97, Ade21]. **Linear** [AGL<sup>+</sup>87, BS88, BDL<sup>+</sup>07, CDQS04, CL95, CDP<sup>+</sup>94, Don02a, Don02b, Ede93, GJMS88, JO92, KVY<sup>+</sup>90, KJH96, MC90, Ma00, MA15, Man97, NZ93, PB19, Poz97, WT99, de 89, AAB<sup>+</sup>21a, ATD17, CvG11, FTB13, AAT<sup>+</sup>20, GAA<sup>+</sup>25, Kum89, LRLG19, MY24, MBvdG13, ML20, RDG12, SPHW18]. **Link** [TLG98, PS87]. **LINPACK** [DL09]. **Linux** [ALL13, Ano1a, CK01, GSHL03, Jon12, LWL05, SG09a, YIN<sup>+</sup>11]. **Liquid** [DQFW90]. **Livermore** [WGI90]. **Living** [GHZ10]. **Load** [BG09, BFN07, GS05, GLGLB<sup>+</sup>11, MYCR06, CLVYC<sup>+</sup>24, ZBMK11]. **Load-Balanced** [BFNV07]. **Loads** [DLG06]. **Local** [BRT<sup>+</sup>92, MYC92, MTW<sup>+</sup>22, PNFC16, RRJ<sup>+</sup>20, JO92, KJH96]. **Local-Creutz** [BRT<sup>+</sup>92]. **Locality** [AKW19, BPBL11, PHC<sup>+</sup>10, Akb24, KSM23]. **locality-enhancing** [Akb24]. **Localization** [CYT<sup>+</sup>02, MJGL13, VIKM<sup>+</sup>22]. **Localized** [WCE95]. **Logical** [Chu99, SR98]. **Long** [Gro03, HRM89]. **longest** [Ozs16]. **look** [BBD<sup>+</sup>17]. **Looking** [AK93, MZA<sup>+</sup>24]. **Loop** [IS96, YK04, Rcae<sup>+</sup>20, WKLW19]. **Loops** [WGI90, RRJ<sup>+</sup>20]. **Loss** [ZOF90]. **Lossless** [Arn07]. **lossy** [CCO<sup>+</sup>19, CDL<sup>+</sup>19, TDG<sup>+</sup>19, UBK<sup>+</sup>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<sup>+</sup>24]. **M2L** [KKB<sup>+</sup>21]. **Machine** [AAB<sup>+</sup>21c, BR03, CC95, CSV91, CBV97, EEL15, IKMS<sup>+</sup>19, KFJ20, MC90, SS89, Wit92, ZK93, BAP<sup>+</sup>12, CBM13, DMJS19, DEQO21, EJD<sup>+</sup>19, KWEF18, MP18, NSI20, SK20, SSU<sup>+</sup>12, BJ92, GKH<sup>+</sup>91, HZ91, KKDV03, KKD05, LK10, LPG88, Don87]. **machine-learning-based** [CBM13]. **machinery** [TGS<sup>+</sup>22]. **Machines** [AH93, BBDR95, CDT05, CB95, HC10, HGWN14, Jea13, KS89]. **macromolecular** [DF18, MCR<sup>+</sup>17]. **made** [ASHH16]. **Madre** [SS10]. **MAGMA** [ABC<sup>+</sup>24, AAT<sup>+</sup>20, NTD10]. **magnetic** [JKBW18]. **Magnetically** [ACG<sup>+</sup>90]. **Magnetohydrodynamic** [ACG<sup>+</sup>90, FU12]. **mainstream** [BHK<sup>+</sup>13]. **Major** [GL09]. **makes** [SDI<sup>+</sup>19]. **Making** [BPBL11, Dee10, GWKN08, MAB<sup>+</sup>24, BHK<sup>+</sup>13, KT94]. **MALI** [WCS<sup>+</sup>23]. **Malleability** [CSS24, CLVYC<sup>+</sup>24, MÁAC<sup>+</sup>24]. **malleable** [BPR18, CSC24, RSCC<sup>+</sup>24]. **Man** [Wit92]. **Manage** [HBSP08, ESW<sup>+</sup>12]. **Management** [AF09, AD93, BPK<sup>+</sup>07, DD06, Dar00, HTSK90, MWM<sup>+</sup>08, MFK09, PK04, SE92, YB07, OLOF23, PBB<sup>+</sup>20]. **manager** [IK18]. **Managing** [BGI<sup>+</sup>25, Spr06, TGP19]. **manufacturing** [TBB<sup>+</sup>22]. **Many** [GLZS14, TMWS91, AKC<sup>+</sup>19, BDE<sup>+</sup>25, BH12, INS<sup>+</sup>20, LDLD19, LNSMMA15, MSPSI15, PSV<sup>+</sup>16, Udd17, VIKM<sup>+</sup>22, VRB<sup>+</sup>19, VOL<sup>+</sup>14, YFS<sup>+</sup>14]. **Many-Body** [TMWS91, VIKM<sup>+</sup>22]. **many-core** [AKC<sup>+</sup>19, BH12, INS<sup>+</sup>20, LNSMMA15, MSPSI15, PSV<sup>+</sup>16, Udd17, VRB<sup>+</sup>19, VOL<sup>+</sup>14, YFS<sup>+</sup>14]. **many-nucleon** [LDLD19]. **manycore** [AGC<sup>+</sup>19, DJJ<sup>+</sup>19, HFV<sup>+</sup>12, LTPK17, MBC<sup>+</sup>18, SCD<sup>+</sup>19]. **manycores** [BH17]. **Mapping** [CDRV15, JPV23, QH08, ASA19, DCN17, GJMV18, Jea13, KPR17]. **Mappings** [PTGB02]. **Marenostrum** [RBL08]. **marine** [GEKO19]. **Market** [McN87, NK89, WPBB01]. **Market-Based** [WPBB01]. **Markets** [IIJ93]. **Mass** [McN87]. **Massive** [GNB11, dSSB<sup>+</sup>08, CdVL<sup>+</sup>18, GVR<sup>+</sup>21]. **Massive-Scale** [GNB11]. **Massively** [BBDR95, CH94, CBW95, CB95, Dem90, DCLS19, HVWS09, HVSW09, HS93, HZ91,

- JL89, Jon92, LPJ98, MA15, MPG93, MSP<sup>+</sup>24, Mon89, NZ93, PK04, SBF90, SCB<sup>+</sup>95, SK92, TMW<sup>+</sup>99, AHB<sup>+</sup>16, BCLP17, GEKO19, IJB22, KHS<sup>+</sup>19, KRR19, KDH18, NMAE13, RMV<sup>+</sup>19, SPHW18, YJZN22]. **match** [Ozs16]. **Matching** [ZC92, HFV<sup>+</sup>12]. **Materials** [EGG05, GKN<sup>+</sup>96, KVY<sup>+</sup>90, Nak99, WLC91, ZOF90, MPD<sup>+</sup>12, PHF21, VDF<sup>+</sup>23, ZSL<sup>+</sup>23]. **math** [CNR<sup>+</sup>24]. **Mathematical** [Mon89]. **Mathematics** [Don89]. **MATLAB** [BK07, Lus09b, ZZG<sup>+</sup>14]. **Matrices** [KC92a, KC92b, TQOA23]. **Matrix** [AGL<sup>+</sup>87, Chu99, DL09, GG11, IYV04, MCG04, NKR90, VSW<sup>+</sup>22, Ano24, BDC21, BJWS20, DEKV92, EHTW21, GG14, GGO16, HDL<sup>+</sup>15, KSM23, MSHPV18, OGY24, PHF21, SCR11, SMK<sup>+</sup>20, VIKM<sup>+</sup>22, WZH<sup>+</sup>20, WWC<sup>+</sup>24, YIYD19, YLL<sup>+</sup>14]. **Matrix-free** [VSW<sup>+</sup>22, KSM23, PHF21, SMK<sup>+</sup>20, VIKM<sup>+</sup>22]. **Matrix-vector** [GG11, GGO16, YLL<sup>+</sup>14]. **matter** [GHHS15, HYY<sup>+</sup>22]. **Maximization** [GLGLB<sup>+</sup>11]. **Maximizing** [PIR<sup>+</sup>20]. **MCell** [CBSB01, CBB<sup>+</sup>04]. **MCHF** [SYF96]. **Means** [BRT<sup>+</sup>92]. **Measure** [BH06]. **Measurement** [MSMW07, FU12]. **Measuring** [FGJ<sup>+</sup>04, Har11, KKS04, SB04]. **mechanically** [MBvdG13]. **Mechanics** [HOPB92, Her88, Ytt97]. **Mechanism** [DZRS99, SK20]. **mechanisms** [CDG<sup>+</sup>21, GGMJF<sup>+</sup>20]. **Media** [PGTS10]. **medical** [THH<sup>+</sup>13]. **Medicine** [SSNM92]. **Mediterranean** [CDG<sup>+</sup>14]. **Medium** [MHW15]. **Meetings** [Ano91c, Ano91d, Ano91e, Ano92i, Ano92j, Ano92k, Ano92l, Ano92m, Ano93b, Ano93c, Ano98c]. **Melting** [MWC<sup>+</sup>05]. **Member** [HTSK90]. **memetic** [NC18]. **memoization** [CGGC<sup>+</sup>16]. **Memoriam** [Mar91]. **memories** [TKSK88]. **Memory** [AH93, AD93, BFLL99, BMWD87, Bri10, BEF<sup>+</sup>95, CDT05, CWG09, CB95, FSS13, GJMS88, GSHL03, Gir02, HC10, HL10, HD05, JLL04, JMC05, MWAR<sup>+</sup>87, MCW<sup>+</sup>00, NPT<sup>+</sup>06, NTKP06, WT99, YRA<sup>+</sup>02, YK04, YIN<sup>+</sup>11, ZC92, BH12, BGI<sup>+</sup>25, CHT<sup>+</sup>19, DEKV92, DCN17, HTD<sup>+</sup>14, HGMW12, IK18, JO92, KDO16, LFB<sup>+</sup>15, LM23, LCZ<sup>+</sup>15, RMV<sup>+</sup>19, SPNB14, SB19, THDS19, Wal18, WZHG17, YIYD19, SS10]. **Memory-Aware** [SS10]. **memory-efficient** [RMV<sup>+</sup>19]. **merger** [HLH<sup>+</sup>19]. **Merging** [YBA<sup>+</sup>03]. **Mesh** [DFS<sup>+</sup>05, HT04b, Mav02, MCW<sup>+</sup>00, SR05, WCE95, WCDS99, DCLS19, GDM<sup>+</sup>23, ZMG<sup>+</sup>21, dFRD<sup>+</sup>23]. **Mesh-Iterative** [MCW<sup>+</sup>00]. **Meshes** [Ytt97, KC18]. **Meso** [GGS01]. **Meso-Scale** [GGS01]. **Message** [Ano93d, Ano94b, CWG09, MPI98, BBG<sup>+</sup>14, SMZ<sup>+</sup>18, ZKRA14, BC14, BBH<sup>+</sup>06, BRU05, Cot04, GL04, IBC<sup>+</sup>10, KKDV03, KKD05, LK10, SWHP05, SLG95, TGT05, ZRG<sup>+</sup>24]. **Message-Passing** [Ano93d, Ano94b, CWG09, MPI98, SMZ<sup>+</sup>18, SLG95]. **Messages** [JW06]. **Messaging** [KFM<sup>+</sup>10]. **Metacomputing** [FK97, GS99]. **METADOCK** [ICPSG18]. **metaheuristic** [ICPSG18]. **Metaheuristics** [QH08, TPG<sup>+</sup>18]. **Metal** [TBB<sup>+</sup>22, NMAE13]. **metal/polymer** [NMAE13]. **Metals** [Cla91]. **Metascheduling** [Mat03]. **meteorological** [GKR<sup>+</sup>22]. **Method** [DP05, FCLG07, Man97, SG91, Tis97, de 89, Ade21, BBDH14, FIMU19, HLZ<sup>+</sup>20, KSF22, KKB<sup>+</sup>21, KSM23, MMHL11, MSP<sup>+</sup>24, MMA19, MGFP20, OKTR11, PH19, SPHW18, TKSK88, YZZW21, YB12, CKE08, SBBS06]. **Methods** [AD93, ACG<sup>+</sup>90, AGL<sup>+</sup>87, BMWD87, BBT23, CC95, CSV91, FWSW02, HOPB92, HJ96, MC90, MG87, Meu88, MR90, PHC<sup>+</sup>10, RR96, SCFK04, TXD<sup>+</sup>07, THL88, AAB<sup>+</sup>21a, AAB<sup>+</sup>21b, Akb24, CMN12, DTL<sup>+</sup>21, EKF<sup>+</sup>19, IGA24, IYK16, ICPSG18, JdSA<sup>+</sup>17, KLR<sup>+</sup>21, KFM<sup>+</sup>21, Lai93, LNR<sup>+</sup>24, Mon12, MK24, RDPK22, SMK<sup>+</sup>20, ŠCKW19, UZM<sup>+</sup>14, Nag89].

**Metric** [HE01, DHL16]. **Metrics** [CMS<sup>+</sup>11, Num04, Ste04]. **Mexico** [Bus87]. **MFEM** [AAB<sup>24b</sup>, VSW<sup>22</sup>]. **MFIX** [MAF<sup>22</sup>]. **MFIX-Exa** [MAF<sup>22</sup>]. **MHD** [ACG<sup>90</sup>]. **MIC** [HLS<sup>17</sup>, SHK<sup>18</sup>]. **Micro** [BWB<sup>10</sup>, SKS<sup>13</sup>]. **Micro-benchmarks** [BWB<sup>10</sup>]. **micro-ischaemic** [SKS<sup>13</sup>]. **Microbenchmarks** [JLL04]. **Microcanonical** [BMT89]. **microfluidic** [KDH18]. **micromagnetics** [YJZN22]. **Microprocessors** [WT99]. **Microscopic** [YFH<sup>96</sup>]. **microscopy** [DCK<sup>23</sup>, RPdB<sup>19</sup>, TKA<sup>17</sup>]. **microstructure** [TBB<sup>22</sup>]. **Microtasked** [MSK92]. **Microtasking** [HA91]. **microthreaded** [Udd17]. **MICs** [TKA<sup>17</sup>]. **Middleware** [BA01, CKPD99, CDCV06, EDSV06, MCS<sup>06</sup>]. **Migration** [KLJ87, UB95, QHCC17, QAL<sup>23</sup>]. **millions** [LYL<sup>16</sup>]. **MIMD** [AH93, BOD<sup>91</sup>, FFNP97]. **Mimicking** [ACD07]. **Mini** [BGB<sup>18</sup>, Gen88]. **Mini-applications** [BGB<sup>18</sup>]. **Mini-Supercomputers** [Gen88]. **MiniApps** [MDH<sup>18</sup>]. **minimal** [LBP18]. **Minimization** [Rao02, LPB<sup>16</sup>]. **Minnesota** [Aus92, ATD<sup>88</sup>]. **MiPax** [HKK88]. **MIPSPro** [CW05]. **Missing** [Mar87d]. **Missions** [SKB01]. **Mixed** [Ano02b, BDL<sup>07</sup>, LM23, AAB<sup>21a</sup>, LCT<sup>24</sup>]. **mixed-precision** [AAB<sup>21a</sup>, LCT<sup>24</sup>]. **MM** [MFP<sup>17</sup>]. **MM2** [PUR94]. **MMF** [LNK22]. **Mobile** [FP02, QWIC02, YBA<sup>03</sup>]. **Mode** [LRT07, HHSM19, KTP<sup>24</sup>]. **Model** [ATN<sup>00</sup>, ACD07, ABAS87, BFLL99, BE07, BFN07, BG02, BMT89, BRT<sup>92</sup>, CBW95, DVC88, GS05, GP93, Ish91, JLO05, Kep04a, KJ05, KM95, LR07, LPJ98, PPR03, SSSW91, SG09b, SG09a, SR05, Ste09a, TD08, VFD04, VC89, WBG06, WHL03, AGC<sup>19</sup>, AWWG19, ABH<sup>18</sup>, CDL20, CDG<sup>14</sup>, CMHB15, DAB<sup>12</sup>, EDB19, EMP<sup>18</sup>, EAG<sup>19</sup>, GDKWS15, HPA<sup>22</sup>, IYK16, KKL<sup>19</sup>, LBP18, LNK22, MKM<sup>19</sup>, PMP<sup>20</sup>, SDF<sup>17</sup>, TNLP13, WDH<sup>15</sup>, YWL<sup>14</sup>, Cow08, CJK<sup>05</sup>, DVW<sup>12</sup>, DEE<sup>12</sup>, DJC05, ESW<sup>12</sup>, HVKW05, JLO05, KTWL18, LJO05, MS05, MW12, PLS05, WD05]. **Modeled** [WJS<sup>90</sup>]. **Modeling** [AS00, AGHR19, BCZM07, BELF07, CWHP99, CC95, CTD<sup>05</sup>, DR06, DDM87, DSD<sup>91</sup>, DCN17, EGG05, EDS95, HVWS09, HVSW09, JO90, MOK00, MWC<sup>05</sup>, Men00, MCU<sup>13</sup>, OLOF23, Rad18, SG91, SVBP13, SK92, THC<sup>96</sup>, THL88, WSCZ05, YK07, YW93, CVJ12, CHWS20, DCM<sup>17</sup>, GSK<sup>15</sup>, HPS<sup>22</sup>, JKBW18, MMHL11, OWC<sup>21</sup>, SE12, SK20, SKP<sup>22</sup>, UCZ<sup>15</sup>, WCS<sup>23</sup>]. **modelling** [QHCC17, STS17]. **Models** [ARR99, BV11, BRGR11, BR03, BBD00, DGD<sup>04</sup>, DFC90, Gir02, HD05, HAF<sup>96</sup>, IIJ93, Kal09b, LJO05, LR09, LRO10, MA89, PA11, PS87, RW03, Ste04, Ste09b, UB95, VDB04, WOS08, WW92, ZC92, de 89, Ade21, BH17, BCH<sup>23</sup>, BGB<sup>22</sup>, DTDP14, DEL<sup>12</sup>, EJD<sup>19</sup>, HCC<sup>22</sup>, HLS<sup>17</sup>, JMM<sup>21</sup>, KdOCR<sup>20</sup>, KBY<sup>19</sup>, MEK<sup>19</sup>, MTW<sup>22</sup>, MDH<sup>18</sup>, MYG23, SCD<sup>19</sup>, VSHN14, WKLW19, ZBH<sup>23</sup>]. **Modern** [BDG<sup>00</sup>, WET<sup>19</sup>, ESW<sup>12</sup>, KTP<sup>24</sup>, KMJ<sup>23</sup>, LNR<sup>24</sup>, PLJD24, SB19]. **Modified** [HB90]. **Modisazure** [ACF<sup>11</sup>]. **modular** [AFGQO19]. **Module** [PLS05]. **Modulo** [Gro03]. **Molecular** [BYT91, CGB<sup>94</sup>, CH94, CWG09, CSY10, DQFW90, DGD<sup>04</sup>, DVC88, DFC90, KVY<sup>90</sup>, MP94, Nak99, NHG<sup>96</sup>, AKC<sup>19</sup>, AKW19, HXW<sup>13</sup>, KFJ20, KNPS21, PGK<sup>24</sup>, PIR<sup>20</sup>, SKE<sup>23</sup>, SDI<sup>19</sup>]. **molecule** [JMM<sup>21</sup>]. **Monitor** [BH06, SSU<sup>12</sup>]. **Monitoring** [LWOB97, MR04, PHB04, SC09, Spr06, VR00]. **Monte** [BEH<sup>90</sup>, CH94, DFT<sup>15</sup>, FSS13, LM03, LPB<sup>16</sup>, MWAR<sup>87</sup>, MB87, MFP<sup>17</sup>, SABD13, SSSW91, SSR<sup>14</sup>, VSS<sup>13</sup>, ZK93]. **mortar** [LPB<sup>16</sup>]. **Morton** [Wal18]. **MOSFET** [VSS<sup>13</sup>]. **MOSFETs** [MV20].

**MOTEUR** [GMLP08]. **motif** [FAB<sup>+</sup>21]. **motion** [NSI20]. **Motions** [DFC90]. **moulded** [WSD<sup>+</sup>14]. **movement** [LM23, PG18]. **Moveout** [LT90]. **moving** [BG22]. **MP** [AEPR92, Del93, DH96, Lai93, LT88, MYC92, MSK92, YW93]. **MP/416** [THL88]. **MPAS** [KTP<sup>+</sup>24]. **MPAS-ocean** [KTP<sup>+</sup>24]. **MPH** [HD05]. **MPI** [SLG95, Ano94b, Ano01a, BBG<sup>+</sup>10, BCG<sup>+</sup>10, BBS99, BBG<sup>+</sup>14, BBB<sup>+</sup>24, BF01, BBDH14, BBH<sup>+</sup>13, BIC<sup>+</sup>10, BHK<sup>+</sup>06, BBC<sup>+</sup>00, BRM03, Bri10, CBL10, CLVYC<sup>+</sup>24, DJJ<sup>+</sup>19, DLB07, DGB<sup>+</sup>14, FD04, FCLG07, FSC<sup>+</sup>11, GFD05, GVF<sup>+</sup>18, HC10, HGMW12, IMS16, KWEF18, KMH<sup>+</sup>14, LRG<sup>+</sup>16, LRT07, kLCCW07, MS02, MÁAC<sup>+</sup>24, MMA19, OL05, OGM<sup>+</sup>16, RTRG<sup>+</sup>07, SCB14, SSB<sup>+</sup>05, SDJ17, SC04b, SIC<sup>+</sup>19, THDS19, YSP<sup>+</sup>05, ZKRA14, SZC12]. **MPI-2** [HGMW12]. **MPI-Based** [FSC<sup>+</sup>11]. **MPI-IO** [BIC<sup>+</sup>10, LRT07]. **MPI-OpenMP** [MS02]. **MPI/OpenACC** [OGM<sup>+</sup>16]. **MPI/OpenMP** [MMDA19]. **Mpi/Openmp/GPU** [SZC12]. **MPI2** [MPI98]. **MPI\_T** [GVF<sup>+</sup>18]. **MPICH** [BHK<sup>+</sup>06, Cot04, GL97, TRG05, ZRG<sup>+</sup>24]. **MPICH-G2** [Cot04]. **MPICH-V** [BHK<sup>+</sup>06]. **MrBayes** [KPST18]. **MRI** [LNR<sup>+</sup>24, SKS<sup>+</sup>13]. **Much** [RAGW93]. **Multi** [BKRSR09, BH12, Bri10, KDH11, OKTR11, SSR<sup>+</sup>14, TNBG07, YK04, APD<sup>+</sup>15, BGM15, BGO20, CAE<sup>+</sup>13, CZR<sup>+</sup>11, DAC<sup>+</sup>14, HCC<sup>+</sup>22, IKMS<sup>+</sup>19, IK18, KTWL18, KKL<sup>+</sup>19, KILL13, LDW<sup>+</sup>12, LVA<sup>+</sup>13, LNSMMA15, MGFP20, PSV<sup>+</sup>16, TKA<sup>+</sup>17, TGS<sup>+</sup>22, VSS<sup>+</sup>13, VMPW20, VOL<sup>+</sup>14, YFS<sup>+</sup>14]. **multi-[PSV<sup>+</sup>16]**. **Multi-Core** [Bri10, BH12, KDH11, SSR<sup>+</sup>14, CAE<sup>+</sup>13, KILL13, LDW<sup>+</sup>12, LNSMMA15, TKA<sup>+</sup>17, VOL<sup>+</sup>14, YFS<sup>+</sup>14]. **Multi-Criteria** [BKRSR09]. **multi-GPGPUs** [APD<sup>+</sup>15]. **Multi-GPU** [OKTR11, BGM15, KTWL18, KKL<sup>+</sup>19, VMPW20]. **Multi-Hop** [TNBG07]. **Multi-Level** [YK04]. **multi-order** [CZR<sup>+</sup>11]. **multi-physics** [DAC<sup>+</sup>14, HCC<sup>+</sup>22]. **multi-processor** [BGM15]. **multi-projection** [MGFP20]. **multi-resolution** [TGS<sup>+</sup>22]. **multi-scale** [IKMS<sup>+</sup>19]. **multi-step** [BGO20]. **multi-subband** [VSS<sup>+</sup>13]. **multi-tasking** [IK18]. **multi-threaded** [LVA<sup>+</sup>13]. **Multiblock** [KDL01, Ytt97]. **Multibody** [BGI<sup>+</sup>99]. **Multicommodity** [NK89]. **Multicomponent** [HD05, SVN09]. **Multicomputer** [Man97]. **Multicomputers** [MOK00]. **Multicore** [CWG09, BSK14, BSH<sup>+</sup>16, DTDP14, DDKK19, LWT<sup>+</sup>11, MPD<sup>+</sup>12, MBC<sup>+</sup>18, OPW<sup>+</sup>12, RSCC<sup>+</sup>24, THH<sup>+</sup>13]. **multicores** [BH17]. **Multicriteria** [CJ06]. **Multidimensional** [HLW00]. **Multidisciplinary** [BGB<sup>+</sup>96, KDO16]. **Multidomain** [KS05]. **multifold** [PIR<sup>+</sup>20]. **Multifrontal** [AD89, AD93, BMWD87]. **Multigrid** [DMT97, SC04a, AG18, BGO20, DTL<sup>+</sup>21, GEKO19, HRW19, MK24, ZZG<sup>+</sup>14]. **Multilevel** [DW97, EGG05, WCDS99, Sta19]. **Multimodal** [FWSW02]. **Multiparadigm** [AS00]. **Multiphase** [ZC92, FIMU19, HBKR21, YZZW21, ZB20]. **Multiphysics** [EW22, KMW<sup>+</sup>13, LJO05, MCW<sup>+</sup>00, MWC<sup>+</sup>05, PK04, MC21, ZMG<sup>+</sup>21]. **Multiple** [DLG06, MYCR06, Mor89b, Nak99, BLOR18, BDFVP15, HLRK24, HGWN14, KDO16, MDH<sup>+</sup>18, RDG12, SKS<sup>+</sup>13]. **multiplication** [DAD<sup>+</sup>22, EHTW21, GGO16, OGY24, SCR11, WWC<sup>+</sup>24, YLL<sup>+</sup>14]. **multiplications** [WZH<sup>+</sup>20]. **Multiply** [GG11]. **Multipole** [CKE08, KMPJ08, IYK16, KKB<sup>+</sup>21, YB12]. **Multiprocessing** [Ano87a, DD91, YM91]. **Multiprocessor**

- [AD89, BS88, DEKV92, KPR17].
- Multiprocessors** [AD93, DD91, Gir02, Wad99].
- Multiprogramming** [MA89].
- Multiprotocol** [BHK<sup>06</sup>]. **multirate** [LNR<sup>24</sup>]. **multiscale** [CDG<sup>+21</sup>, DCK<sup>+23</sup>].
- Multistage** [GMWG10]. **multitask** [LSLD23]. **Multitasking** [MYC92, THL88, UF89]. **multithreaded** [HFV<sup>+12</sup>, LD24]. **Multithreading** [BBG<sup>+10</sup>]. **Multiunit** [GCL93]. **muscle** [IKMS<sup>+19</sup>]. **Musings** [Luc09]. **Myth** [Ano87c]. **Myths** [MDW<sup>+23</sup>].
- NAMD** [NHG<sup>+96</sup>]. **Nankai** [BAM<sup>+16</sup>]. **nanometre** [CHW<sup>+15</sup>]. **nanoparticles** [KJF20]. **Nanophase** [Nak99]. **NAS** [BBB<sup>+91a</sup>]. **NASA** [MAB07, PLS05].
- National** [ABF<sup>+08</sup>, BBB<sup>+91b</sup>, Bus87, Don89, DGH<sup>+93</sup>, HGD91, UB95, BEW16, BCH<sup>+23</sup>, All88, Blo87, Mir90, Web91].
- Navier** [Mav02, SBF90]. **NCL** [GKR<sup>+22</sup>].
- nCube** [CL95]. **Near** [Arn07, KFJ20].
- Near-Lossless** [Arn07]. **nearest** [DSH<sup>+16</sup>].
- NEC** [Mor89a]. **Neck** [GKB93]. **Need** [GS09, Ste09a]. **Needs** [Ano87e, HBSM03].
- neighbour** [DSH<sup>+16</sup>]. **Nek5000** [MGS<sup>+15</sup>, WZH<sup>+20</sup>]. **NekBone** [CMMW23]. **NEMO** [EMP<sup>+18</sup>]. **NERSC** [HBSM03]. **NES** [AMC<sup>+18</sup>]. **nested** [RSCC<sup>+24</sup>]. **nests** [RCAE<sup>+20</sup>]. **Net** [AEG<sup>+03</sup>]. **Netlets** [Rao02]. **nets** [BDC21].
- NetSolve** [CD97]. **Network** [ACD07, AM00, AB01, AMC<sup>+18</sup>, BL99, BSCC03, BGF02, CD06, CD97, CK01, Chu99, DD06, DFMD94, LC06, MOK00, NZ93, OMDS23, PHB04, RS03, WEPB12, ABH<sup>+18</sup>, 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<sup>+08</sup>, JRP<sup>+23</sup>, VRB<sup>+19</sup>, VDF<sup>+23</sup>]. **Neural** [AM00, Her88, RES87, BDC21, JRP<sup>+23</sup>, VRB<sup>+19</sup>, VDF<sup>+23</sup>]. **neuroimaging** [KdOCR<sup>+20</sup>, MRD<sup>+15</sup>]. **neuromorphic** [VDF<sup>+23</sup>]. **neuron** [CHWS20]. **neutron** [BSH<sup>+16</sup>, DFT<sup>+15</sup>, SSR<sup>+14</sup>]. **Newton** [DTL<sup>+21</sup>, GKMT00]. **Newton-multigrid** [DTL<sup>+21</sup>]. **Next** [DE03, HT04a, MFB<sup>+19</sup>, WD24, ZKRA14].
- next-generation** [MFB<sup>+19</sup>, WD24, ZKRA14]. **NMR** [BHK<sup>+88</sup>]. **No** [Ano87c]. **Nodal** [FSN08, MSP<sup>+24</sup>]. **Node** [KHP<sup>+04</sup>, BGO20, IK18, KL13]. **node-level** [IK18]. **nodes** [HYH<sup>+20</sup>, TNLP13]. **NOE** [CGB<sup>+94</sup>]. **NOE-Restrained** [CGB<sup>+94</sup>]. **noise** [ALL13, WLFH16]. **Non** [BCG<sup>+10</sup>, CAK<sup>+07</sup>, GSHL03, LCD<sup>+24</sup>, uITH07, AWWG19, RDG12, SLL<sup>+19</sup>].
- Non-Data-Communication** [BCG<sup>+10</sup>].
- Non-Dedicated** [CAK<sup>+07</sup>, GSHL03].
- non-deterministic** [SLL<sup>+19</sup>].
- non-Hermitian** [RDG12].
- non-hydrostatic** [AWWG19].
- Non-Polynomial** [uITH07]. **Non-smooth** [LCD<sup>+24</sup>]. **nonblocking** [DJJ<sup>+19</sup>, WLFH16]. **Nondeterminism** [BBT23, CRS<sup>+19</sup>]. **Nonequilibrium** [YW93]. **nonhydrostatic** [AGC<sup>+19</sup>].
- noninteracting** [PMP<sup>+20</sup>]. **noniterative** [IMB<sup>+19</sup>]. **Nonlinear** [AK91, ABAS87, HT04b, KKY<sup>+90</sup>, DTL<sup>+21</sup>, GEKO19, JRT16, KLR<sup>+21</sup>]. **nonstationary** [DTL<sup>+21</sup>]. **Nonsymmetric** [KC92a, KC92b, MC90, Ma00]. **Normal** [YRA<sup>+02</sup>, Haj93]. **North** [LC90]. **Northern** [UB95]. **Note** [DT17, Cec20, DT18, DT19, DT23, WD18, WD19, WD21, WD24].
- Notice** [Ano17a, Ano24]. **Novel** [CGB<sup>+94</sup>, DGJ09, FWZ91, SG07, Cec20, HTD<sup>+14</sup>, PNFC16, VDF<sup>+23</sup>]. **Novo** [NKiN<sup>+08</sup>]. **NSF** [Bra91, Sci92, Sal87].

- NSF-Sponsored** [Sal87]. **NT** [Ano01a, CLP<sup>+</sup>99]. **NuChart** [TDM<sup>+</sup>17]. **NuChart-II** [TDM<sup>+</sup>17]. **Nuclear** [FSS13, IHMM87, BHZ<sup>+</sup>23, LDLD19, LD24]. **nucleon** [LDLD19]. **NUMA** [Jea13, MKM<sup>+</sup>19, OPW<sup>+</sup>12]. **Number** [Ano92h, FG97, FU12]. **Numbers** [BEF<sup>+</sup>95]. **Numerical** [ABF<sup>+</sup>99, ABB<sup>+</sup>94, DMT01, DE03, Ede93, IIJ93, LWL05, LCT<sup>+</sup>24, Nag89, PR95, PPR03, PBD<sup>+</sup>01, Poz97, RAB<sup>+</sup>15, RIF01, RKKC90, SG91, THDC09, AAB<sup>+</sup>21a, AAA<sup>+</sup>22, BG22, BBA<sup>+</sup>21, BSS15, IGA24, KMJ<sup>+</sup>23, LHD<sup>+</sup>25, MAB<sup>+</sup>13, MKM<sup>+</sup>19, SDF<sup>+</sup>17]. **Numerically** [Mah90, WJS<sup>+</sup>90]. **Nvidia** [BLU<sup>+</sup>22, KNPS21, RTRZ22]. **NWChem** [JDD18].
- O** [BCP<sup>+</sup>20, BTZ<sup>+</sup>25, DLY<sup>+</sup>98, DEL<sup>+</sup>12, IBC<sup>+</sup>10, KKCB98, KES<sup>+</sup>17, LPJ98, MMD98, MS95, NFK98, OWO98, PH91, SW01, SR98, TLG98, TD08, TNCC21, WWA<sup>+</sup>11]. **Oak** [ABF<sup>+</sup>08, DGH<sup>+</sup>93, HGD91]. **Object** [NHG<sup>+</sup>96, SE12]. **Object-Oriented** [NHG<sup>+</sup>96]. **Objective** [PPK09]. **oblivious** [CHT<sup>+</sup>19]. **observable** [RAB<sup>+</sup>15]. **observations** [ZKRA14]. **observe** [TGS<sup>+</sup>22]. **obstacle** [CCBS11]. **Obstacles** [MBF<sup>+</sup>11]. **Occupancy** [GLGLB<sup>+</sup>11]. **Ocean** [Cow08, HAF<sup>+</sup>96, KJ05, KM95, WSCZ05, CDG<sup>+</sup>14, EMP<sup>+</sup>18, KTP<sup>+</sup>24, JO90]. **oceanographic** [CBA<sup>+</sup>18]. **October** [OL05]. **ODE** [BCCL09, BH99, KR11]. **Off** [SR05]. **Offers** [Ano87a]. **offline** [dRAD<sup>+</sup>18a]. **Offload** [BRU05, LCT<sup>+</sup>24]. **Offloading** [GWKN08, HCCG20]. **Ohio** [BBW90]. **Oil** [KR94, KR95]. **OLCF** [Ano22a, NBE<sup>+</sup>22]. **On-Board** [SPTT08]. **on-Demand** [EW06]. **On-Line** [LWOB97]. **On-the-fly** [GSA<sup>+</sup>19]. **One** [GFD05, LRT07, TGT05, Udd17]. **One-IPC** [Udd17]. **One-Sided** [GFD05, LRT07, TGT05]. **Ongoing** [MEK<sup>+</sup>19]. **Online** [FAB<sup>+</sup>21, LC06]. **Onto** [QH08]. **Open** [LWOB97, BSW<sup>+</sup>14, BBB<sup>+</sup>24, CGW19, GCSK13, AEG<sup>+</sup>03]. **OpenACC** [DLVL<sup>+</sup>24, MGS<sup>+</sup>15, OGM<sup>+</sup>16, QHCC17, VLLGT<sup>+</sup>24]. **OpenCL** [ASAK19, CLBS17, RGB<sup>+</sup>18, RRJ<sup>+</sup>20]. **OpenDDA** [DGJ09]. **Opening** [PRT90]. **OpenMC** [WTL<sup>+</sup>25]. **OpenMOC** [BSH<sup>+</sup>16]. **Openmp** [SZC12, BF01, BBDH14, BBC<sup>+</sup>00, CLVYC<sup>+</sup>24, HHSM19, LRLG19, LCT<sup>+</sup>24, MS02, MV20, MMA19, OPW<sup>+</sup>12, TM23, THDS19]. **OpenMP-parallel** [HHSM19]. **Operating** [CW01, EDSV06, HI12, HI13, IH15]. **Operation** [BBR10, BHdR09]. **operational** [CBA<sup>+</sup>18]. **Operations** [FCLG07, GFD05, MS09, TRG05, TGT05, Akb24, GG14, KMH<sup>+</sup>14, ŠCKW19]. **Operators** [FSN08, GRC08, ZM07, LMT<sup>+</sup>12]. **Opportunities** [Ano87a, Cap09, KMW<sup>+</sup>13]. **optical** [GSK<sup>+</sup>15]. **Optimal** [BR03, FG97, DEQO21, LTPK17, WWC<sup>+</sup>24]. **Optimisation** [BGB<sup>+</sup>18, VSS<sup>+</sup>13]. **Optimization** [AKP<sup>+</sup>18, ABB<sup>+</sup>94, BFLL99, BGB<sup>+</sup>96, BELF07, CGST19, HL10, HA91, IYV04, KMH<sup>+</sup>14, LT88, PPK09, RW03, SCD<sup>+</sup>19, SCB<sup>+</sup>95, SR05, TXD<sup>+</sup>07, TRG05, YLL<sup>+</sup>14, ABH<sup>+</sup>18, BRGR11, BH12, FIMU19, IMW<sup>+</sup>13, KES<sup>+</sup>17, LCD<sup>+</sup>24, NMAE13, PB23, SDJ17, SHK<sup>+</sup>18, UZM<sup>+</sup>14, WD21, YWL<sup>+</sup>14]. **Optimizations** [PSV<sup>+</sup>16, DCD<sup>+</sup>13, Jea13, PUR94, WKWL19]. **Optimize** [KKCB98, GVF<sup>+</sup>18]. **Optimized** [MSK92, THDS19, IK18, MK24]. **Optimizing** [AKC<sup>+</sup>19, DDKK19, FSS13, GG11, KILL13, MAB<sup>+</sup>13, MCG04, Mor89a, NSI20, TGT05, WCE95, WCDS99, BJWS20, EJD<sup>+</sup>19]. **Optorsim** [BCM<sup>+</sup>03]. **orchestrating** [OLOF23]. **Orchestration** [ZSL<sup>+</sup>23]. **Order** [CC95, uITH07, THL88, CZR<sup>+</sup>11, HF24, KFM<sup>+</sup>21, KSM23, LH19, MK24, OGM<sup>+</sup>16, PKC23, PFGDM20, ŠCKW19,

THDS19, VSW<sup>+22</sup>]. **ordering** [Wal18]. **orderings** [AKW19]. **ordinary** [BDE<sup>+25</sup>]. **ordinates** [DMSMG18]. **Organic** [CBL06]. **Organization** [FWSW02, FKT01]. **Organized** [BGF02]. **Organizing** [CBL06, GHZ10]. **Oriented** [Hua03, NHG<sup>+96</sup>, CMN12]. **Orography** [GS05]. **orthogonal** [LCT<sup>+24</sup>]. **oscillatory** [SPHW18]. **OSWALD** [RGB<sup>+18</sup>]. **other** [CBA<sup>+18</sup>]. **Our** [WW92]. **outlooks** [RAB<sup>+15</sup>]. **output** [Lap22, LCZ<sup>+15</sup>, WVL<sup>+16</sup>]. **Overarching** [Kep04b]. **Overhead** [HYH<sup>+20</sup>, MSMW07, MK24]. **Overheads** [BCG<sup>+10</sup>, GNB11]. **Overlap** [BBDR95, BRU05, INY<sup>+14</sup>]. **Overlapping** [PR95, DJJ<sup>+19</sup>]. **overset** [KBY<sup>+19</sup>]. **Overview** [AGR<sup>+03</sup>, DFP<sup>+96</sup>, DJC05, HMA<sup>+24</sup>]. **P** [MAB<sup>+13</sup>, GNB11, SSU<sup>+12</sup>]. **P4** [Mat95]. **PACE** [NKP<sup>+00</sup>]. **Pacific** [JO90]. **Package** [RIF01, SYF96, QSX<sup>+20</sup>]. **PACO** [BQOS21]. **Pair** [Fro91]. **PAM** [CEL<sup>+97</sup>]. **PAM-CRASH** [CEL<sup>+97</sup>]. **pandemic** [BCH<sup>+23</sup>]. **Panel** [Sal87]. **PANORAMA** [DCM<sup>+17</sup>]. **Papers** [Lee03, Moh09, OL05, DT11, KKDV03]. **PAPI** [JDAD19]. **papillomavirus** [ABH<sup>+18</sup>]. **Par-BF** [LGDH16]. **Paradigm** [BGB<sup>+96</sup>, DCL<sup>+08</sup>]. **Parallel** [AWS01, AAC<sup>+97</sup>, AS00, APD<sup>+15</sup>, AK91, AM00, AHB<sup>+16</sup>, AEPR92, ABB<sup>+94</sup>, BGG05, BDP01, BCCL09, BBB<sup>+91a</sup>, BCZM07, BOD<sup>+91</sup>, BYCB05, BK07, BBDR95, BBC<sup>+00</sup>, BSH<sup>+16</sup>, BG00, BEF<sup>+95</sup>, BGB<sup>+96</sup>, BH99, CCH<sup>+88</sup>, CCZ07, CE00, CDH<sup>+93</sup>, CL95, CCBS11, CH94, CBW95, Cho01, CSV91, Chu99, CEL<sup>+97</sup>, CB95, CM97, CJK<sup>+05</sup>, DEKV92, DLY<sup>+98</sup>, Dem90, DIB00, DFS<sup>+05</sup>, DZRS99, DMT01, DZDR95, Ede93, EGG05, EDS95, FG97, Gaf88, GCCC<sup>+03</sup>, GKN<sup>+96</sup>, GKP97, GDS17, GP93, GGS01, GL97, GKMT00, HKK88, HVWS09, HVSW09, HR97, HdV18, HLW00, HJ96, HT04b, HS93, Hz91, IBC<sup>+10</sup>, JLO05, JL89, Jon92, KDL01, KC92a, KC92b, KT99, Kok88, KR11, KS05, LD24, Lap22, LJO05, LPJ98, LWOB97, Lus09b, MC90, MS09, MMD98, MA15, MS02, MSMW07, MT89, MWAR<sup>+87</sup>, MPG93, Mat95, Mav02, MD99]. **Parallel** [MWC<sup>+05</sup>, McR87, Meu88, MBF<sup>+11</sup>, Mon89, Mor89b, MSK92, MS95, NK89, NKR90, NKiN<sup>+08</sup>, NHG<sup>+96</sup>, NZ93, NFK98, NKP<sup>+00</sup>, OWO98, ODD07, Pan92, Pan97, PR95, PPR03, PC08a, PK04, RW03, RR96, RS03, SBF90, SWW94, SABD13, SW01, SS89, SPTT08, Sha88, SCB<sup>+95</sup>, SM06, SR98, Sim90, SSNM92, SG91, SK92, SBG10, SMW87, TBA<sup>+17</sup>, TLG98, TMW<sup>+99</sup>, TR92, Tis97, TD08, UB95, VLO<sup>+08</sup>, VSHN14, WSCZ05, WG07, YRA<sup>+02</sup>, YHG<sup>+07</sup>, YW93, Ytt97, ZK93, ZCZ<sup>+13</sup>, Ade21, AKW19, dRADs<sup>+18a</sup>, dRADs<sup>+18b</sup>, BLC17, BH12, BTZ<sup>+25</sup>, BCLP17, CSC19, CMHB15, DKMT18, DAB<sup>+12</sup>, DEL<sup>+12</sup>, DCLS19, EJD<sup>+19</sup>, GBB18, GHL15, GKR<sup>+22</sup>, GHHS15, HLW<sup>+16</sup>, HLZ<sup>+20</sup>, HLS<sup>+17</sup>, HHSM19, IVG<sup>+20</sup>, IGA24, IMH<sup>+11</sup>, IMH<sup>+12</sup>, ICPSG18, ILCLG20, IJB22, IKMS<sup>+19</sup>, JdSA<sup>+17</sup>, KT94, KHS<sup>+19</sup>, KRR19, KES<sup>+17</sup>, KDH18, Kum89, LPG88]. **parallel** [LGDH16, LSLR<sup>+20</sup>, LWT<sup>+11</sup>, LNR<sup>+24</sup>, LBP18, MY24, MV20, MSP<sup>+24</sup>, MFB<sup>+19</sup>, MJD16, MS19, MSKM21, NMAE13, NSI20, PDDI22, PH19, QSX<sup>+20</sup>, RMV<sup>+19</sup>, RSCC<sup>+24</sup>, SPHW18, SO23, Sta19, SMZ<sup>+18</sup>, SB19, TRS13, TPG<sup>+18</sup>, THDS19, WVL<sup>+16</sup>, WEPPB12, YJZN22, ZWS21, DP05, KJ05, KKDV03, KKD05, LK10, Nag89]. **Parallel-algorithm** [AHB<sup>+16</sup>]. **parallelisation** [BSW<sup>+14</sup>, Rcae<sup>+20</sup>, VSS<sup>+13</sup>, WSD<sup>+14</sup>]. **Parallelism** [ACM88, CFK<sup>+94</sup>, MYC92, VRRL18, dSSB<sup>+08</sup>, DMSMG18, DTL<sup>+21</sup>, Jon12, KDNE18, RSCC<sup>+24</sup>]. **Parallelization** [AJL<sup>+97</sup>, CDL20, CBV97,

Cow08, Cza03, DGP<sup>+</sup>97, GCD97, HE01, KM95, LP10, LVA<sup>+</sup>13, MCW<sup>+</sup>00, Reu92, WBG06, CIWI17, CDG<sup>+</sup>14, KSF22, MFP<sup>+</sup>17, MMDA19, Ozs16, SZC12].

**Parallelizing** [AFL<sup>+</sup>18]. **Parameter** [FBBC03, KFJ20, SH93].

**Parameterizations** [WD05, AJ24].

**Parameters** [LR09]. **ParaScope** [CCH<sup>+</sup>88].

**PARCOACH** [SCB14]. **Park** [UB95].

**Parkbench** [HL00]. **Parmetis** [LDGR03].

**PaRSEC** [BHC<sup>+</sup>25, ML20]. **Part** [HVWS09, HVSW09, SR05]. **Parthenon** [GDM<sup>+</sup>23]. **Partial** [Key09, Meu88, RMS<sup>+</sup>18, KS89, YZC<sup>+</sup>15].

**Participate** [Mar87c]. **Particle** [DR06, DDM87, MB87, MD99, MR90, PGTS10, ABH<sup>+</sup>18, HF24, MBF<sup>+</sup>21, NSI20, WET<sup>+</sup>19].

**particle-in-cell** [WET<sup>+</sup>19]. **particles** [PMP<sup>+</sup>20]. **Partition** [LQJG16].

**Partitioned** [MHW15, SBG10, ABD<sup>+</sup>18, ABG<sup>+</sup>19, LGDH16]. **Partitioner** [SR05].

**Partitioner-Centric** [SR05]. **Partitioning** [LR07, SR05, WCDS99, Ytt97, BJWS20, SABD13]. **Partitions** [WCE95]. **Passing** [Ano93d, Ano94b, BC14, BBH<sup>+</sup>06, BRU05, CWG09, Cot04, GL04, IBC<sup>+</sup>10, KKDV03, KKD05, LK10, MPI98, SWHP05, TGT05, ZRG<sup>+</sup>24, SMZ<sup>+</sup>18, ZKRA14, SLG95].

**PASSION** [KKCB98]. **Passive** [MBF<sup>+</sup>11].

**Patching** [BH00]. **Path** [Luc09, MAF<sup>+</sup>22, SDJ17]. **Paths** [Rao02].

**patients** [SKS<sup>+</sup>13]. **Pattern** [BE07, APD<sup>+</sup>15, SKS<sup>+</sup>13]. **Patterns** [Cho01, GRC08, GKB93, SR98, dRAD<sup>+</sup>18b, BRR17, DKMT18, EEL15, HGMW12, WEPB12]. **Patterns/Operators** [GRC08].

**PC** [CDT05, CK01, LWL05, Ste01].

**PCISPH** [VMPW20]. **PCs** [AWS01]. **PDE** [CCO<sup>+</sup>19, CHT<sup>+</sup>19, DTL<sup>+</sup>21, FMR<sup>+</sup>20].

**PDEs** [Ma00]. **peak** [OY22]. **Peaks** [TC10].

**PeleC** [dFRD<sup>+</sup>23]. **PERFECT** [BCK<sup>+</sup>89].

**Perform** [Ano24]. **Performance** [AS00, ATN<sup>+</sup>00, Ano87b, Ano87f, Ano94a, Ano94c, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, Ano98b, Ano98a, Ano99, Ano00, Ano01a, Ano01b, ARR99, Aus92, Bai88, BGI<sup>+</sup>99, Bar09, BAA<sup>+</sup>06, BCK<sup>+</sup>89, BBDH14, BWB<sup>+</sup>10, BBT23, BGB<sup>+</sup>18, BBA87, BFN07, BRM03, BRT<sup>+</sup>92, BBD00, BDG<sup>+</sup>00, BELF07, CDQS04, CWHP99, CC95, CK01, CDP<sup>+</sup>94, CAK<sup>+</sup>07, CSY10, CEL<sup>+</sup>97, CB95, CJK<sup>+</sup>05, Dar00, Del93, DH96, DGD<sup>+</sup>04, DGJ09, DBA<sup>+</sup>09, lSD89, EHTW21, EAG<sup>+</sup>19, FGC<sup>+</sup>05, FGJ<sup>+</sup>04, FSC<sup>+</sup>11, FSN08, FFR<sup>+</sup>10, FU12, Gun00, HIT<sup>+</sup>14, HVWS09, HVSW09, HR97, HL00, HLW00, HSLK11, IS96, IKY<sup>+</sup>10, IHMM87, JLL04, JMC05, KBA00, Kep04a, KHP<sup>+</sup>04, KJ05, KDL01, KWB06, KS09a, Kuc04, KUE<sup>+</sup>00, LR07, LR09, LS90, LRLG19, LWL05, LNR<sup>+</sup>24, LD07, MSMW07, MPB<sup>+</sup>22, Mav02, MA89, Men00, MYG23, MJ04].

**Performance** [MMN09, MSK92, NFK98, NPT<sup>+</sup>06, NTKP06, NKP<sup>+</sup>00, Num04, OCC<sup>+</sup>08, PPK<sup>+</sup>04, PB19, PF16, Poz97, PLS05, QHCC17, QWIC02, RIF01, RBL08, RDPK22, SBF90, Sab91, SWHP05, SSQ08, SCB<sup>+</sup>95, SM06, SVN09, SC09, Spr06, SKB01, Ste01, Ste04, SBG10, SFP02, SBBS06, SW04, SB19, THC<sup>+</sup>96, TMW<sup>+</sup>99, TAR<sup>+</sup>08, THDC09, VC89, VR00, VDB04, Wad99, WT99, WCS<sup>+</sup>23, WBFB04, WG07, WD05, Yel04, YK04, YIN<sup>+</sup>11, YSP<sup>+</sup>05, ZLGS99, ABC<sup>+</sup>24, AAB<sup>+</sup>24a, AKC<sup>+</sup>19, AAG<sup>+</sup>23, AAB<sup>+</sup>24b, ATD17, AKP<sup>+</sup>18, AFGQO19, BLC17, BBA<sup>+</sup>21, BRGR11, BCP<sup>+</sup>20, BSH<sup>+</sup>16, BAP<sup>+</sup>12, CGGC<sup>+</sup>16, CSS24, CGW19, Cec20, CMMW23, CS14, CZR<sup>+</sup>11, CMHB15, CHWS20, DTDP14, DCM<sup>+</sup>17, DWT<sup>+</sup>19, DVW<sup>+</sup>12, DHL16, DAC<sup>+</sup>14, ECG<sup>+</sup>13, EB23, EKF<sup>+</sup>19, EKD<sup>+</sup>12, Fem90, FMR<sup>+</sup>20, GVF<sup>+</sup>18, GHL15, GR17, GMWG10, GSND20, GS18, GDM<sup>+</sup>23, GSK<sup>+</sup>15, GGO16, Har11, HLW<sup>+</sup>16].

**performance** [HPA<sup>+</sup>22, HCCG20, HLRK24, IYK16, IFA15, IGBBR23, INS<sup>+</sup>20, JKD<sup>+</sup>11, JDAD19, KDH11, KL13, KNPS21, KMM16, LAZ<sup>+</sup>24, LDLD19, LST15, LPB<sup>+</sup>16],

LWT<sup>+</sup>11, LSLD23, MAB<sup>+</sup>13, MDW<sup>+</sup>23, MSPSI15, MCU<sup>+</sup>13, MW12, MSKM21, NMAE13, OY22, PPC<sup>+</sup>16, PSV<sup>+</sup>16, PB23, SFLC18, SSR<sup>+</sup>14, SZ11, STS17, SK20, SKC10, TR17, TGP19, TKA<sup>+</sup>17, TNLP13, UCZ<sup>+</sup>15, VRB<sup>+</sup>19, WLG<sup>+</sup>18, WKLW19, WLFH16, WD19, WD21, WD24]. **performance-portable** [CMMW23]. **Periodic** [ZBMK11]. **PERMAS** [AJL<sup>+</sup>97]. **persistent** [KV19]. **Perspective** [Bar09, YHG<sup>+</sup>07, PS12]. **Perspectives** [Ano92n, MP95, Sab91]. **perturbation** [KdOCR<sup>+</sup>20, LWL<sup>+</sup>23]. **perturbation-based** [LWL<sup>+</sup>23]. **perturbative** [MFP<sup>+</sup>17]. **Pervasive** [Ald89]. **petaflop** [RWM17]. **petaflops** [TAM<sup>+</sup>16]. **Petascale** [Cap09, Her09, HXW<sup>+</sup>13, WWA<sup>+</sup>11, JKD<sup>+</sup>11, MKM<sup>+</sup>19]. **Petascale/Exascale** [Cap09]. **PEZY** [YIME19]. **PEZY-SC** [YIME19]. **PGAS** [GDKWS15, NMI<sup>+</sup>19]. **pH** [MP94]. **Phase** [CBL10, CDH<sup>+</sup>93, FWZ91, HSLK11, YCHH90, CDL20, CRS<sup>+</sup>19, KDH18, RPdB<sup>+</sup>19, VSHN14]. **phase-contrast** [RPdB<sup>+</sup>19]. **phase-field** [VSHN14]. **PHAST** [MPB<sup>+</sup>22]. **PHAT** [MJGL13]. **Phi** [HCCG20, LSES20]. **Phi<sup>TM</sup>** [MMDA19]. **Photon** [MWAR<sup>+</sup>87]. **phylogenetic** [KPST18]. **Physical** [Chu99, SR98, WD05]. **Physical/Logical** [Chu99]. **Physician** [Wit92]. **Physics** [DSD<sup>+</sup>91, KDH11, MR90, AJ24, Ano22a, DAC<sup>+</sup>14, GHHS15, HCC<sup>+</sup>22, HPS<sup>+</sup>22, NBE<sup>+</sup>22]. **Pieces** [Mar87d]. **Piotr** [Ano24]. **Pipeline** [BFLL99, BKRSR09, BCH<sup>+</sup>23]. **Pipelined** [TRS<sup>+</sup>10, MSKM21]. **pipelines** [KdOCR<sup>+</sup>20]. **pipelining** [LQJG16]. **Pittsburgh** [RS88]. **pivoting** [YZC<sup>+</sup>15]. **Pixel** [HC08]. **placement** [DJJ<sup>+</sup>19]. **Planet** [Mar89b]. **Planning** [CDCV06]. **Plasma** [CDD<sup>+</sup>90, EM23, FU12]. **Plasmas** [ACG<sup>+</sup>90, DDM87, WET<sup>+</sup>19]. **plastic** [WSD<sup>+</sup>14]. **plate** [NMAE13]. **Platform** [LJC<sup>+</sup>10, PMS<sup>+</sup>04, PLS05].

**Platform-Adapted** [PMS<sup>+</sup>04]. **Platforms** [BLRR01, BMR06, Eyr06, MYCR06, OCC<sup>+</sup>08, dRADS<sup>+</sup>18a, ABG<sup>+</sup>19, BJWS20, BBG<sup>+</sup>18, BSH<sup>+</sup>16, Cec20, DDKK19, GSND20, IYK16, IMW<sup>+</sup>13, MPD<sup>+</sup>12, MFB<sup>+</sup>19, MFP<sup>+</sup>17, MBF<sup>+</sup>21, PPC<sup>+</sup>16, SHK<sup>+</sup>18, SB19, UZM<sup>+</sup>14, Ano19]. **Play** [Pan97]. **PLW** [LD07]. **pMATLAB** [BK07]. **POEMS** [BBD00]. **Point** [BSBF89, HC10, Ma00, MC21, CDL<sup>+</sup>19, LH18]. **Point-block** [MC21]. **Point-SSOR** [Ma00]. **Point-to-Point** [HC10]. **Pointers** [LRT07]. **points** [CdVL<sup>+</sup>18]. **Poisson** [GGS01, KRR19, RTRZ22]. **polarizable** [KFJ20]. **policies** [BLOR18]. **Policy** [EW06]. **Pollution** [DFH<sup>+</sup>96]. **Polyacetylene** [ZOF90]. **Polyenes** [AEPR92]. **polymer** [NMAE13]. **Polymers** [DFC90]. **Polynomial** [uITH07]. **Polytetrafluoro** [DVC88]. **population** [OWC<sup>+</sup>21]. **Porous** [PGTS10, MPD<sup>+</sup>12]. **Portability** [WD05, DWT<sup>+</sup>19, GS18, LAZ<sup>+</sup>24, LNK22, MPB<sup>+</sup>22, QHCC17, TGP19]. **Portable** [BDG<sup>+</sup>00, FCLG07, GL97, HLNW25, PLS05, CMMW23, EKF<sup>+</sup>19, GDM<sup>+</sup>23, HLH<sup>+</sup>19, SB19, WCS<sup>+</sup>23]. **Portals** [BRM03]. **Porting** [LNK22, MCR<sup>+</sup>17, Mic09, SHK<sup>+</sup>18, KNPS21, WD19, WD24]. **pose** [BE17]. **Positive** [Ald89]. **positron** [VBVD22]. **Post** [BBH<sup>+</sup>13, AAA<sup>+</sup>25]. **Post-failure** [BBH<sup>+</sup>13]. **Potential** [CGW19, YZZW21]. **Potentials** [DGD<sup>+</sup>04, THDS19]. **Power** [BHdR09, Dem90, TNBG07, Ade21, CGGC<sup>+</sup>16, LSES20, PPC<sup>+</sup>16, SFLC18, UZM<sup>+</sup>14, BQOS21]. **Power-Aware** [BQOS21]. **power-line** [Ade21]. **Power-Saving** [TNBG07]. **Powerful** [Mor89b]. **PowerPC** [MAB<sup>+</sup>13]. **PRACE** [Mic09]. **Practical** [Cho01, WKLW19]. **Practice** [BR03]. **Practices** [PK04]. **Pragmatic** [DCD<sup>+</sup>13, Eyr06]. **Precision** [Ano02b, BDL<sup>+</sup>07, AAB<sup>+</sup>21a, AFGQO19, Bai20, DAD<sup>+</sup>22, HF24, LH18, LM23],

LCT<sup>+24</sup>, OY22, RTRZ22]. **precisions** [HLRK24]. **Preconditioned** [MG87, IVG<sup>+20</sup>]. **Preconditioner** [BBS99, de 89, CGBL25, IJB22, RMS<sup>+18</sup>]. **Preconditioners** [CE00, Cho01, Ma00]. **preconditioning** [MC21, PKC23]. **Predict** [VS03]. **Predicting** [BE07, WLC91, WWC<sup>+24</sup>, CNW<sup>+23</sup>, MCU<sup>+13</sup>]. **Prediction** [FFR<sup>+10</sup>, HL00, KUE<sup>+00</sup>, NKP<sup>+00</sup>, SCB<sup>+95</sup>, BAM<sup>+16</sup>, BBA<sup>+21</sup>, BGB<sup>+22</sup>, GCSK13, HLK<sup>+23</sup>, MKM<sup>+19</sup>, PLJD24, UBK<sup>+23</sup>]. **Predictions** [RIF01, TLdS22]. **preeminent** [YB12]. **Preemptive** [BBH<sup>+06</sup>]. **Preface** [Ano17b, Bak01, Bam12, BO08, CCF<sup>+06</sup>, CCD<sup>+06</sup>, CJZ08, DDS00, DKD07, DT97, DT01, Don02a, Don02b, Fow05, IK02, Kah07, KZ07, MD06, OL05, Pat05, PC08b, Wal03, YD07, dA03]. **Prefetching** [BIC<sup>+10</sup>, CZR<sup>+11</sup>]. **prefix** [Ozs16]. **Preprocessing** [DMT97]. **Preprocessors** [Ano01a]. **Pressure** [WLC91]. **Pricing** [BBMB19, YB07]. **Prime** [Ano92h, Sim90]. **Principal** [DF08]. **Principles** [DQFW90, GKN<sup>+96</sup>, TMWS91, HIT<sup>+14</sup>]. **Priori** [Cho01]. **Priority** [PBB<sup>+20</sup>]. **Privacy** [Mar89a]. **Prize** [dS21, BBD<sup>+17</sup>]. **probabilities** [Haj93]. **Problem** [CDH<sup>+93</sup>, CSV91, DL09, UF89, CCBS11, RRJ<sup>+20</sup>, SKE<sup>+23</sup>]. **Problems** [BGG05, CD97, FG97, FBW<sup>+87</sup>, GGS01, MR90, NK89, NKR90, SWW94, uITH07, TRS<sup>+10</sup>, TMMR10, DTL<sup>+21</sup>, KC18, Lai93, LNR<sup>+24</sup>, MC21, MBHF15, SPHW18]. **Procedure** [CGB<sup>+94</sup>]. **Process** [AM00, FGC<sup>+05</sup>, GCL93, SC04b, KILL13, WSD<sup>+14</sup>]. **Processes** [MWC<sup>+05</sup>, GSK<sup>+15</sup>, LSD23, MÁAC<sup>+24</sup>]. **Processing** [AK91, FP02, GLGLB<sup>+11</sup>, KHP<sup>+04</sup>, LP10, MA15, MT89, Mor89b, MSK92, NTD10, OWO98, PC08a, PMS<sup>+04</sup>, Sal87, SPTT08, SWG<sup>+03</sup>, VLO<sup>+08</sup>, YW93, AJ24, AAG<sup>+23</sup>, BE17, BLC17, CMMW23, CLG13, CGBL25, CMN12, DMQS12, GHHS15, HPS<sup>+22</sup>, KDO16, LQJG16, PH91, RDG12, RWM17, SFLC18, SO23, VBVD22, YZZW21, ZCZ<sup>+13</sup>]. **Processor** [MPG93, RRV06, SBF90, SK92, BGM15, DJJ<sup>+19</sup>, MAB<sup>+13</sup>, MMDA19, Mon12, PH19]. **Processors** [Bri10, BDG<sup>+00</sup>, LR07, LT88, MWAR<sup>+87</sup>, Mor89b, TMW<sup>+99</sup>, AGC<sup>+19</sup>, BBG<sup>+14</sup>, CZR<sup>+11</sup>, MBC<sup>+18</sup>, MSPSI15, PSV<sup>+16</sup>, RSCC<sup>+24</sup>, SB19, TQOA23, THH<sup>+13</sup>, YIME19]. **Product** [MCG04, BDC21, Eri88, ŠCKW19]. **Production** [MSK92, MDH<sup>+18</sup>, SH93]. **Productively** [VBVD22]. **Productivity** [Bar09, FGJ<sup>+04</sup>, KKS04, Kep04a, Kep04b, Kuc04, SB04, Ste04]. **Profiling** [MSMW07, SGFC09]. **Program** [Kit90, NHG<sup>+96</sup>, WG07, Fem90, KJ05, Web91]. **Programmability** [CCZ07, CLSS09]. **Programmable** [HC08]. **Programme** [HT04a]. **Programmer** [BEK<sup>+18</sup>]. **Programmer-guided** [BEK<sup>+18</sup>]. **Programming** [BBG<sup>+10</sup>, BV11, BF01, BDG<sup>+00</sup>, CCH<sup>+88</sup>, CWG09, Cza03, EGG05, Gan88, Gir02, Kal09b, KKS04, Kok88, Lus09b, Mat95, NPT<sup>+06</sup>, PA11, PBAL09, Poz97, RW03, Sha88, SCB<sup>+95</sup>, SMW87, VEMR17, WLB92, BH17, CCBL18, EDB19, GBB18, GDKWS15, HLS<sup>+17</sup>, IVG<sup>+20</sup>, LBP18, MGB12, MDH<sup>+18</sup>, SB19, TM23]. **Programs** [ACM88, DLB07, GL04, HC10, LWOB97, NZ93]. **Progress** [AGL<sup>+87</sup>, BRU05, CAE<sup>+13</sup>, DJJ<sup>+19</sup>, MEK<sup>+19</sup>]. **Project** [BHK<sup>+06</sup>, CBB<sup>+96</sup>, ESD<sup>+22</sup>, PK04, AAA<sup>+25</sup>, BGI<sup>+25</sup>, MZA<sup>+24</sup>, BCC<sup>+01</sup>, CNR<sup>+24</sup>, DBA<sup>+09</sup>, DBM<sup>+11</sup>, EW22, Ger21, Mic09, OKTR11, PS87, PHB04, Wit92]. **projection** [MGFP20]. **projects** [ACF<sup>+11</sup>]. **Promising** [Gir02]. **proof** [RTRZ22]. **Propagation** [GKN<sup>+96</sup>, ALE<sup>+20</sup>, ASA19]. **Properties** [ACG<sup>+90</sup>, DFS<sup>+05</sup>, WLC91, ZM07, AKW19, FFZ<sup>+23</sup>, PHF21]. **proposal** [ZKRA14]. **prospectus** [Bra91]. **Protein** [ACD07, BHK<sup>+88</sup>, Jon92, RGB<sup>+18</sup>,

- DSH<sup>16</sup>, HLK<sup>+23</sup>]. **protein-ligand** [HLK<sup>+23</sup>]. **Protocol** [TNBG07]. **Prototypical** [WLVL<sup>+96</sup>]. **prototyping** [ZRG<sup>+24</sup>]. **Provided** [LS06]. **Providing** [GKP97, SLL<sup>+19</sup>]. **Proximal** [NZ93]. **Pruners** [SLL<sup>+19</sup>]. **pulse** [ASAK19]. **Purity** [HC08]. **Purpose** [CKE08, Gus04, BE17]. **Purpose-Based** [Gus04]. **Pushing** [THH<sup>+13</sup>]. **PVM** [BDG<sup>+95</sup>, Mat95, SYF96]. **PVMGéant** [DZDR95]. **PVODE** [BH99]. **pyAMReX** [MZA<sup>+24</sup>]. **PycOMPSS** [TBA<sup>+17</sup>]. **Python** [FKA<sup>+17</sup>, GKR<sup>+22</sup>, LD07, RCAE<sup>+20</sup>, TBA<sup>+17</sup>].
- Q** [KMH<sup>+14</sup>]. **Qaulity** [Mat03]. **QCD** [Din91, JC12]. **QCDOC** [DGD<sup>+04</sup>]. **QM** [MFP<sup>+17</sup>]. **QM/MM** [MFP<sup>+17</sup>]. **QoS** [BSCC03]. **Quadrics** [YSP<sup>+05</sup>]. **Quadtree** [CL95]. **Quality** [PK04]. **quantitative** [WLG<sup>+18</sup>]. **Quantized** [Ham91]. **Quantum** [DFC90, FBW<sup>+87</sup>, IKY<sup>+10</sup>, KVY<sup>+90</sup>, Liu90, SSSW91, ARPY19]. **Quarks** [BOD<sup>+91</sup>, BEH<sup>+90</sup>]. **Quartic** [uITH07]. **quasi** [YLL<sup>+14</sup>]. **quasi-diagonal** [YLL<sup>+14</sup>]. **Quasigeostrophic** [KM95]. **Quda** [JC12]. **Query** [SWG<sup>+03</sup>]. **Querying** [CHZ02]. **Questions** [PPS09, CGW19]. **Queuing** [Ish91]. **Quintessential** [HCC<sup>+22</sup>].
- RA** [AMC<sup>+18</sup>]. **Radar** [MPG93, SVBP13, ZCZ<sup>+13</sup>]. **radial** [EKF<sup>+19</sup>]. **Radio** [CBB<sup>+96</sup>, CLG13, VFJ<sup>+15</sup>]. **radiosity** [SABD13]. **Radiotherapy** [DCCS10]. **RaftLib** [BLC17]. **Raid** [Pla09]. **Raid-6** [Pla09]. **railway** [CGGC<sup>+16</sup>]. **RAJA** [VSW<sup>+22</sup>]. **random** [PNFC16]. **Randomly** [CYT<sup>+02</sup>]. **Range** [BBA87, MHW15]. **Ranger** [BWB<sup>+10</sup>]. **rank** [CGBL25]. **ranking** [AMC<sup>+18</sup>, DHL16]. **rapid** [JMM<sup>+21</sup>]. **Rare** [BB02]. **rate** [BBG<sup>+14</sup>]. **rationale** [BBH<sup>+13</sup>]. **ratios** [HBKR21, UBK<sup>+23</sup>]. **ray** [EEL15, PS12, CDH<sup>+93</sup>]. **raycasting** [BH12]. **rays** [PS12]. **rCUDA** [PIR<sup>+20</sup>]. **re** [IGA24]. **re-assuring** [IGA24]. **Reaching** [CIWI17, PGK<sup>+24</sup>]. **Reacting** [LP10, MYC92, dFRD<sup>+23</sup>]. **Reaction** [Koi90, BG22]. **Reactions** [ASW91, Reu92, TWK87]. **Reactive** [PGTS10, AKC<sup>+19</sup>, LNR<sup>+24</sup>]. **Reactor** [FSS13]. **Read** [RWM17]. **Reading** [Ano02r, Ano02s]. **Ready** [Sim90]. **Real** [BE17, KK01, NRR97, ODD07, TAR<sup>+08</sup>, VR00, WLC91, Wri12, YIME19, BCH<sup>+23</sup>, EHTW21, HPW<sup>+16</sup>, MPB<sup>+22</sup>, MJGL13, WZHG17]. **Real-Time** [KK01, NRR97, VR00, Wri12, BE17, YIME19, BCH<sup>+23</sup>, MJGL13, WZHG17]. **real-world** [HPW<sup>+16</sup>]. **Realistic** [BR03, LC06]. **realizations** [DEQO21]. **realized** [ABL<sup>+22</sup>]. **Reciprocating** [YK07]. **Recognition** [BE07, RES87, CdVL<sup>+18</sup>, SKS<sup>+13</sup>]. **Reconfigurable** [BCC<sup>+06</sup>, RRJ<sup>+20</sup>]. **Reconfiguration** [LK01, IMB<sup>+19</sup>]. **Reconstruction** [CSY10, FFR<sup>+10</sup>, BGM15, SSCF19, THH<sup>+13</sup>, VBVD22]. **Recovering** [OY22]. **Recovery** [BB02, BBH<sup>+13</sup>, HRW19, Sta19]. **rectangle** [Haj93]. **Recurrent** [SMW87]. **redatuming** [HLRK24]. **Redistribution** [DP05, JW06, RRV06, SS10]. **reduce** [APD<sup>+15</sup>, CGW19]. **Reduced** [BFLL99]. **Reduced-Dimensionality** [BFLL99]. **Reducing** [BLOR18, BGO20, CdVL<sup>+18</sup>, CSC19, DLY<sup>+98</sup>, JMC05, LM23]. **Reduction** [NRR97, ATL<sup>+15</sup>, FAB<sup>+21</sup>, FFZ<sup>+23</sup>]. **References** [Ano02p, Ano02q]. **refined** [PKC23, Sta19]. **Refinement** [BDL<sup>+07</sup>, HT04b, SR05, GDM<sup>+23</sup>, LCT<sup>+24</sup>, ZMG<sup>+21</sup>, dFRD<sup>+23</sup>]. **Refining** [AAB<sup>+24a</sup>]. **region** [SPNB14]. **region-based** [SPNB14]. **Regional** [KM95, CDG<sup>+14</sup>, MTW<sup>+22</sup>, WSCZ05]. **Regression** [VS03]. **related** [BQOS21].

**Relational** [MS09]. **Relative** [PUR94, VC89]. **Relativity** [RIF01]. **relaxation** [RDPK22]. **release** [ELEB21]. **Reliability** [TNLP13, BEK<sup>+</sup>18, IGA24]. **Remeshing** [LDGR03]. **Remote** [BB02, DP05, NTKP06, HGMW12]. **Remotely** [VLO<sup>+</sup>08]. **Renaming** [BPBL11]. **rendering** [BH12]. **repeatable** [NDMR20]. **Replication** [BCM<sup>+</sup>03, BCR<sup>+</sup>14, TGS<sup>+</sup>22]. **replication-transcription** [TGS<sup>+</sup>22]. **Report** [Buz89, Sal87]. **representation** [LHD<sup>+</sup>25]. **Representations** [AS00, WW92, CRS<sup>+</sup>19, DF18]. **Reproducibility** [Bai20, IVG<sup>+</sup>20, MEK<sup>+</sup>19, NDMR20, PBE<sup>+</sup>19, SLL<sup>+</sup>19]. **reproducible** [IGDQO19]. **Request** [DD06]. **required** [CdVL<sup>+</sup>18]. **Requirements** [LPJ98]. **Research** [Ano87a, Aus92, ABB<sup>+</sup>94, Bus87, Cap09, CDP<sup>+</sup>94, Don89, Duk91, IHMM87, KHK<sup>+</sup>09, Mar88a, Mir90, Pan97, SG09b, SKC10, TR92, BBW90, KT94, PBB<sup>+</sup>20, EM89, dS21]. **reservation** [GSA<sup>+</sup>19, Mat03]. **reservation-based** [GSA<sup>+</sup>19]. **Reservoir** [AWS01, Ewi88, KR94, KR95, PR95, ZC92, MS19]. **Resilience** [BBA<sup>+</sup>21, CGG<sup>+</sup>09, BCR<sup>+</sup>14, CBD<sup>+</sup>17, LFB<sup>+</sup>15]. **Resiliency** [AAA<sup>+</sup>22]. **Resilient** [BPR18, CGW19, KS05, RMS<sup>+</sup>18]. **Resolution** [DFS<sup>+</sup>05, HB90, MAB07, WOS08, Ano22a, CHW<sup>+</sup>15, DVW<sup>+</sup>12, NBE<sup>+</sup>22, TGS<sup>+</sup>22, WDH<sup>+</sup>15]. **resolutions** [TLdS22]. **resolved** [KBY<sup>+</sup>19]. **resolving** [LNK22]. **resonance** [JKBW18]. **Resource** [AAF<sup>+</sup>01, EW06, FBBC03, MFK09, Mat03, WPBB01, YB07, CDRV15, MRD<sup>+</sup>15, PIR<sup>+</sup>20]. **Resources** [QH08, ZSL<sup>+</sup>23]. **respiratory** [DCK<sup>+</sup>23, GGMJF<sup>+</sup>20, TGS<sup>+</sup>22]. **Response** [BBC<sup>+</sup>00, ZOF90, BCH<sup>+</sup>23]. **Restart** [SSB<sup>+</sup>05]. **restoration** [APD<sup>+</sup>15]. **Restrained** [CGB<sup>+</sup>94]. **Results** [BMR06, GNTH97, Jea13, PUR94, WLVL<sup>+</sup>96, BRGR11, BSH<sup>+</sup>16]. **Rethinking** [KES<sup>+</sup>17]. **Retracted** [IMH<sup>+</sup>12]. **Retraction** [Ano24]. **Retrospective** [Mar88b]. **reuse** [JCK21, QAL<sup>+</sup>23]. **reveal** [ZBH<sup>+</sup>23]. **Reverse** [HHSM19, QHCC17, QAL<sup>+</sup>23]. **Reverse-mode** [HHSM19]. **Review** [Bus87, Con88, Mar88a, Nag89]. **Reviewers** [Ano20c]. **Reviews** [Don87, Mar87a, Mar87b, McR87]. **Revisited** [MS09, SZ11]. **RF** [HTWS08, YW93]. **ride** [VFJ<sup>+</sup>15]. **Ridge** [ABF<sup>+</sup>08, DGH<sup>+</sup>93, HGD91]. **Rigid** [Nak99]. **Rigid-Body-Based** [Nak99]. **Rings** [RRV06]. **RISC** [Gro03]. **RISC-Based** [Gro03]. **risk** [ABL<sup>+</sup>22, CNW<sup>+</sup>23]. **RNA** [SCB<sup>+</sup>95]. **road** [TDM<sup>+</sup>17]. **Roadmap** [THDC09, DBM<sup>+</sup>11]. **Rocks** [Pap11]. **Role** [CLVYC<sup>+</sup>24, Pan97, Sab91, DMJS19]. **Role-shifting** [CLVYC<sup>+</sup>24]. **Roles** [MMS88]. **roll** [HRW19]. **roll-forward** [HRW19]. **Rolling** [FFNP97]. **room** [MSP<sup>+</sup>24]. **Roothaan** [MMDA19]. **rotors** [PLJD24]. **Routines** [CDQS04, GKR<sup>+</sup>22]. **Routing** [CHZ02, MOK00]. **RTX** [BLU<sup>+</sup>22]. **Run** [DLY<sup>+</sup>98, BDC21, LYL<sup>+</sup>16]. **Runge** [KR11, RR96, RDPK22]. **Running** [CNW<sup>+</sup>23, Fra05, MGB12]. **runs** [CdVL<sup>+</sup>18, SLL<sup>+</sup>19]. **Runtime** [AJL<sup>+</sup>97, BH00, Dar99, GGMJF<sup>+</sup>20, Kal09b, LS06, PG18, HI12, HI13, IH15, LRLG19, WKWL21]. **Runtime-compilation** [PG18]. **S** [Lai93, WOG95, LYL<sup>+</sup>16]. **S-3800** [WOG95]. **S-MP** [Lai93]. **SAM** [LNK22]. **SAMCEF** [GCD97]. **Sampling** [MR04]. **San** [Mai87]. **Santos** [BCP<sup>+</sup>20]. **SAR** [AAC<sup>+</sup>97]. **SARA** [SBWS99]. **SARS** [BGB<sup>+</sup>22, CDG<sup>+</sup>21, CNW<sup>+</sup>23, DCK<sup>+</sup>23, ZBH<sup>+</sup>23]. **SARS-CoV-2** [BGB<sup>+</sup>22, CNW<sup>+</sup>23, DCK<sup>+</sup>23, ZBH<sup>+</sup>23, CDG<sup>+</sup>21]. **Satellites** [BKS<sup>+</sup>07]. **saturation** [CIWI17]. **Saving** [TNBG07, SKSG19]. **Scala** [SFP02].

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

- Semi-Lagrangian** [EM23, KRR19].  
**semi-synchronised** [MBHF15].  
**Semiconductor**  
[FWZ91, PHC<sup>+</sup>10, Lai93, Rad18, TKS88].  
**Semiconductors** [Cla91]. **Sensed**  
[VLO<sup>+</sup>08]. **Sensor**  
[AKP08, BB02, BGF02, CYT<sup>+</sup>02, CHZ02,  
FP02, JMP02, QWIC02, STP<sup>+</sup>13]. **Sensors**  
[FWSW02]. **separated** [CvG11].  
**September** [OL05]. **Sequence**  
[Jon92, MP18]. **sequences** [HLK<sup>+</sup>23, LD24].  
**sequencing** [MBC<sup>+</sup>18]. **Sequential**  
[WG07, CDL20]. **Serial**  
[NK89, NKR90, GKR<sup>+</sup>22]. **Series**  
[ACD07, Mar88a]. **Server** [CD97, DD06].  
**Servers** [CD06]. **Service**  
[HLP<sup>+</sup>03, Hua03, Mat03, WHL03, ZKS<sup>+</sup>24].  
**Service-based** [HLP<sup>+</sup>03].  
**Service-Oriented** [Hua03]. **Services**  
[AEG<sup>+</sup>03, CBA<sup>+</sup>18, ECG<sup>+</sup>13, ZKRA14].  
**Sesam** [BBA87]. **Set** [JLL04, PTGB02].  
**sets** [CDL<sup>+</sup>19, LGDH16]. **Severe**  
[WJS<sup>+</sup>90, TGS<sup>+</sup>22]. **shallow**  
[EKF<sup>+</sup>19, EAG<sup>+</sup>19, LVA<sup>+</sup>13, MYG23].  
**shallow-water** [EAG<sup>+</sup>19, MYG23]. **Shape**  
[WCDS99]. **Shared**  
[AH93, BMWD87, Bri10, BEF<sup>+</sup>95, CDT05,  
CWG09, Gir02, HC10, LRT07, MWAR<sup>+</sup>87,  
NPT<sup>+</sup>06, WG07, ZC92, BH12, DEKV92,  
KDO16, SB19, THDS19]. **Shared-Memory**  
[AH93, CWG09, BH12, DEKV92, SB19].  
**shared/distributed** [THDS19]. **sheet**  
[WCS<sup>+</sup>23]. **Shelf** [LPJ98]. **shifting**  
[CLVYC<sup>+</sup>24]. **SHMEM** [BBDH14]. **Should**  
[Pan92]. **shuffle** [HPW<sup>+</sup>16]. **shutdown**  
[BLOR18]. **SICM** [BGI<sup>+</sup>25]. **Side**  
[HTSK90, kLCCW07]. **Sided**  
[GFD05, LRT07, TGT05]. **Sidney** [Mar91].  
**Sieves** [CH94, Mon89]. **Signal**  
[FP02, PMS<sup>+</sup>04]. **Signals** [Arn07]. **Silent**  
[BSS15]. **silico** [MSPSI15]. **silicon**  
[HXW<sup>+</sup>13]. **similarity** [LFB<sup>+</sup>15]. **Simple**  
[Kal09b, SC04b, SBWS99]. **Simulate**  
[BMT89, GMWG10]. **simulated** [KKL<sup>+</sup>19].  
**Simulating**  
[BEH<sup>+</sup>90, Din91, Haj93, VMPW20].  
**Simulation**  
[AWS01, ABF<sup>+</sup>99, BDP01, BHdR09,  
BFNV07, CK01, Cla91, CB95, CM97,  
DCCS10, DZDR95, Ewi88, FFNP97, GCL93,  
GP93, HTSK90, IKY<sup>+</sup>10, Koi90, KR94,  
KR95, LP10, LWL05, LC06, MKG90, Nak99,  
PPK09, PR95, PS87, PHC<sup>+</sup>10, Reu92,  
RKKC90, TWK87, WBG06, WBMY90,  
ASAK19, Ano22a, ARPY19, BLU<sup>+</sup>22,  
BHZ<sup>+</sup>23, BG22, BSW<sup>+</sup>14, CHW<sup>+</sup>15,  
CNW<sup>+</sup>23, DAC<sup>+</sup>14, EM23, HCC<sup>+</sup>22,  
HLH<sup>+</sup>19, HYY<sup>+</sup>22, HXW<sup>+</sup>13, IKMS<sup>+</sup>19,  
JKD<sup>+</sup>11, JRT16, KDO16, KDH18, LPB<sup>+</sup>16,  
MTW<sup>+</sup>22, MS19, NBE<sup>+</sup>22, STS17, TSH<sup>+</sup>19,  
TAM<sup>+</sup>16, TBB<sup>+</sup>22, Udd17, VOL<sup>+</sup>14,  
WET<sup>+</sup>19, WH20, WSD<sup>+</sup>14, YIME19, ZB20].  
**Simulation-Based** [PPK09]. **Simulations**  
[ABAS87, BG00, BYT91, BRT<sup>+</sup>92, CBSB01,  
CBB<sup>+</sup>04, CH94, DLY<sup>+</sup>98, DFMD94, FSS13,  
GGS01, Ham91, HKK88, HSLK11, HZ91,  
KDH11, KT99, KWB06, MD99, MHS11,  
NKIN<sup>+</sup>08, PGTS10, PK04, RTRG<sup>+</sup>07,  
SSSW91, SKP<sup>+</sup>22, THC<sup>+</sup>96, AAA<sup>+</sup>22,  
AKC<sup>+</sup>19, AKW19, BEW16, CCO<sup>+</sup>19,  
CGST19, CDG<sup>+</sup>21, CMN12, CHWS20,  
DFT<sup>+</sup>15, FIMU19, FT19, GGMJF<sup>+</sup>20,  
HBKR21, HPW<sup>+</sup>16, HPS<sup>+</sup>22, IMW<sup>+</sup>13,  
IGBBR23, IJB22, JBOT19, KFJ20, KMJ<sup>+</sup>23,  
KMW<sup>+</sup>13, KBY<sup>+</sup>19, KHS<sup>+</sup>19, LVA<sup>+</sup>13,  
MBT<sup>+</sup>24, MFP<sup>+</sup>17, MAF<sup>+</sup>22, PPC<sup>+</sup>16,  
PMP<sup>+</sup>20, Rad18, RAB<sup>+</sup>15, THDS19,  
TGS<sup>+</sup>22, YWL<sup>+</sup>14]. **Simulator** [BCM<sup>+</sup>03,  
CGGC<sup>+</sup>16, MSP<sup>+</sup>24, VSS<sup>+</sup>13, IKY<sup>+</sup>10].  
**simulators** [AHB<sup>+</sup>16]. **Simultaneous**  
[ABAS87, DTL<sup>+</sup>21, TNLP13]. **Single**  
[BCJ01, OY22, TR17]. **Singular** [Ber92].  
**situ** [AAA<sup>+</sup>25, AGHR19, ARPY19, BCLP17,  
CAA<sup>+</sup>20, MFB<sup>+</sup>19, PDDI22, PBB<sup>+</sup>20].  
**situation** [GCSK13]. **Six** [WOG95, KRR19].  
**six-dimensional** [KRR19]. **SKA** [VFJ<sup>+</sup>15].  
**skeletonisation** [BE17]. **Skeletonization**  
[DIB00]. **Skewers** [HC08]. **skinny**

- [EHTW21]. **SLA** [QH08]. **SLATE** [GAA<sup>+</sup>25]. **slicing** [LCT<sup>+</sup>24]. **Slouching** [Lus09a]. **small** [JMM<sup>+</sup>21, PUR94, WZH<sup>+</sup>20]. **Smart** [MBF<sup>+</sup>11, Gro03]. **sMC** [KPST18]. **Smith** [RGB<sup>+</sup>18]. **smooth** [LCD<sup>+</sup>24]. **Smoothed** [PGTS10, HF24]. **SOA** [DCL<sup>+</sup>08]. **SOA-Based** [DCL<sup>+</sup>08]. **Social** [NKR90, KTWL18]. **Sodium** [DQFW90]. **Soft** [AG18, GHHS15, RMS<sup>+</sup>18, YZC<sup>+</sup>15]. **Software** [ADMP18, Ano87c, Ano87f, BV11, BCC<sup>+</sup>01, BFNV07, CDP<sup>+</sup>94, Dar99, DW97, DE03, DBA<sup>+</sup>09, DBM<sup>+</sup>11, DGP<sup>+</sup>97, DJC05, Fol90a, GCD97, GKMT00, Her09, KS09b, LRO10, LQJG16, LDB<sup>+</sup>06, MM90, PPS09, PA11, PK04, SG09b, AGK<sup>+</sup>23, CYZ<sup>+</sup>20, CSC19, DTL19, ESD<sup>+</sup>22, GSND20, JDAD19, JdSA<sup>+</sup>17, JC12, KNPS21]. **Software-defined** [ADMP18, AGK<sup>+</sup>23, JDAD19]. **Soil** [CWHP99, MTW<sup>+</sup>22]. **soil-structure** [MTW<sup>+</sup>22]. **Solaris** [Ano01a]. **Solid** [DQFW90, SK92]. **Solidification** [MWC<sup>+</sup>05, SHK<sup>+</sup>18]. **Solution** [BHK<sup>+</sup>88, BDL<sup>+</sup>07, CGB<sup>+</sup>94, MR90, PRT90, RS03, uITH07, TMMR10, CSGM17, CCBS11, CvG11, CMN12, ESW<sup>+</sup>12, MEK<sup>+</sup>19, RDG12]. **Solutions** [Fro91, WD19, WD24]. **Solve** [BCCL09, CDH<sup>+</sup>93, CDL20]. **Solved** [CSV91]. **Solver** [BGG05, BH99, CM97, HR97, KDL01, Mav02, PR95, AKP<sup>+</sup>18, AFL<sup>+</sup>18, BSW<sup>+</sup>14, BHL<sup>+</sup>24, CDL20, CHT<sup>+</sup>19, CGBL25, EKF<sup>+</sup>19, ESW<sup>+</sup>12, HHSM19, KTP<sup>+</sup>24, KC18, KRR19, KDH18, MV20, OGM<sup>+</sup>16, RMV<sup>+</sup>19, RWM17, SO23, YJZN22, ZZG<sup>+</sup>14, dFRD<sup>+</sup>23]. **Solvers** [DR06, GGS01, Key09, KR11, ATL<sup>+</sup>15, EAG<sup>+</sup>19, FMR<sup>+</sup>20, IGA24, MSHPV18, MSKM21, NCA21, RTRZ22, WKWL21]. **solves** [SZ11]. **Solving** [BS88, BEF<sup>+</sup>95, CD97, HT04b, IIJ93, KS89, Kum89, Man97, NZ93, SBF90, WT99, Ade21, ALE<sup>+</sup>20, MY24, ML20]. **Some** [Gir02, PPS09]. **Sometimes** [RAGW93]. **Sonic** [WW92]. **Sorting** [Arn07, BSK14]. **sound** [MJGL13]. **Source** [CYT<sup>+</sup>02, BSW<sup>+</sup>14, MJGL13]. **sources** [PBB<sup>+</sup>20]. **Sowing** [GL97]. **Space** [FBBC03, JSSZ09, MHW15, ODD07, SBG10, DTL<sup>+</sup>21, FU12, HLW<sup>+</sup>16, MPD<sup>+</sup>12]. **space-aware** [HLW<sup>+</sup>16]. **space-parallelism** [DTL<sup>+</sup>21]. **Spaceborne** [SKB01]. **SPAI** [BBS99, Ma00]. **spanning** [dAVCM<sup>+</sup>19]. **spare** [HYH<sup>+</sup>20]. **Spark** [KWEF18]. **Sparse** [AD93, Ano02a, AGL<sup>+</sup>87, BJWS20, Ber92, BELF07, Cho01, GG11, HR97, IYV04, KC92a, KC92b, MC90, Ma00, Man97, MCG04, SZ11, SCFK04, UF89, WT99, ASHH16, ATD17, BDC21, BHL<sup>+</sup>24, CGBL25, CvG11, GG14, GGO16, MSHPV18, ML20, MGFP20, SCR11, TQOA23, WWC<sup>+</sup>24]. **Sparsity** [Cho01, IYV04]. **spatial** [FFZ<sup>+</sup>23, SPHW18, WDH<sup>+</sup>15]. **Spatially** [WBG06]. **Spatially-Explicit** [WBG06]. **spatio** [STP<sup>+</sup>13]. **spatio-temporal** [STP<sup>+</sup>13]. **spawning** [MÁAC<sup>+</sup>24]. **Special** [Ano22b, BV11, BM13, BH17, BQOS21, BE18, Cec20, CKE08, DT97, DT99, DT06, DT13, DT17, DT19, DT23, HdV18, KM20, MPI98, Mas19, MFB<sup>+</sup>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<sup>+</sup>97b, PHF21]. **Spectral** [BG00, CB95, DFS<sup>+</sup>05, FSN08, Tho90, DEE<sup>+</sup>12, EAG<sup>+</sup>19, MGS<sup>+</sup>15, WZH<sup>+</sup>20, ZB20]. **spectrum** [LCT<sup>+</sup>24]. **Speed** [Ano87d, BAM<sup>+</sup>16, Mar87a]. **Spherical** [KMPJ08]. **spike** [CDG<sup>+</sup>21]. **spiking** [VDF<sup>+</sup>23]. **Spiral** [PMS<sup>+</sup>04]. **Spline** [Fro91]. **Splines** [uITH07]. **Splitting** [IS96]. **Splotch** [DGRK17]. **SpMV** [BJWS20, DEQO21]. **Sponsored** [Sal87]. **Spotlight** [MPG93]. **Spread** [GKB93]. **SRP** [MJGL13]. **SSOR** [Ma00]. **Stability**

[ACG<sup>+</sup>90, BE07, FWZ91, KdOCR<sup>+</sup>20]. **stabilized** [IGA24]. **Stacking** [BBR10]. **Standard** [Ano94b, Don02a, Don02b, MPI98, BBB<sup>+</sup>24, MSKM21, THH<sup>+</sup>13, Poz97]. **Standards** [Pan92]. **Stanimire** [Ano24]. **StarPU** [HGWN14]. **stars** [HLH<sup>+</sup>19]. **StarSs** [PBAL09]. **State** [CBV97, DKMT18, KNPS21, MYCR06, WLC91]. **State-of-art** [KNPS21]. **Static** [BLRR01, BR03, dRADS<sup>+</sup>18b, QSX<sup>+</sup>20, SCB14, TR17]. **Stationary** [SCFK04]. **Statistical** [EGMP93, EJD<sup>+</sup>19, FWSW02, Her88, MR04, NRR97, VDB04, ZM07, UBK<sup>+</sup>23]. **Status** [MB87]. **Steady** [MYCR06]. **Steady-State** [MYCR06]. **steer** [WPHS<sup>+</sup>25]. **Steering** [GKP97, KWB06, VR00]. **Stefan** [CSV91]. **stellar** [HCC<sup>+</sup>22]. **Stencil** [HCCG20, APD<sup>+</sup>15, PHF21, WKLW19, YFS<sup>+</sup>14]. **stencil-based** [WKLW19]. **stencil-reduce** [APD<sup>+</sup>15]. **stencils** [SB19]. **step** [BGO20]. **stepping** [BSS15]. **Stiff** [BCCL09]. **Stochastic** [AK93, ABAS87, LP10, NZ93, CCRV20]. **Stokes** [Mav02, SBF90, ZZG<sup>+</sup>14]. **Storage** [KR11, GG14]. **store** [KV19, KES<sup>+</sup>17]. **Storm** [WJS<sup>+</sup>90]. **Strategies** [BCM<sup>+</sup>03, FBBC03, GWKN08, MOK00, WPBB01, EMP<sup>+</sup>18, HCCG20, MRD<sup>+</sup>15, OPW<sup>+</sup>12, SCD<sup>+</sup>19, SIC<sup>+</sup>19, SDF<sup>+</sup>17, SKSG19]. **Strategy** [JPV23, MCW<sup>+</sup>00, SVN09]. **stratified** [AMC<sup>+</sup>18]. **stream** [BLC17, DKMT18, LBB17]. **streamed** [GG14]. **streaming** [BRGR11, MAB<sup>+</sup>13]. **stresses** [PLJD24]. **Strong** [MKM<sup>+</sup>19, INY<sup>+</sup>14]. **strongly** [ZZG<sup>+</sup>14]. **Structural** [YCHH90, MJD16, PUR94]. **Structure** [BH06, CGB<sup>+</sup>94, CBL10, CSY10, FWZ91, Jon92, KT99, Liu90, SCB<sup>+</sup>95, SYF96, TMW<sup>+</sup>99, HTD<sup>+</sup>14, HIT<sup>+</sup>14, HLK<sup>+</sup>23, KC18, LDLD19, LD24, MTW<sup>+</sup>22, SKE<sup>+</sup>23]. **Structure-Specific** [BH06]. **Structured** [LDGR03, Ma00, SR05, WBG06, Ytt97, GDM<sup>+</sup>23, LAZ<sup>+</sup>24, LNR<sup>+</sup>24, RV15, ZMG<sup>+</sup>21]. **Structures** [BHK<sup>+</sup>88, DFC90, FFR<sup>+</sup>10, GCL93, GG11, HB90, HA91, JP93, DSH<sup>+</sup>16, EMP<sup>+</sup>18, JKBW18]. **Studies** [CHT<sup>+</sup>19, CBW95, DQFW90, HOPB92, HE01, LS06, SABK94, BCYS11, GDKWS15, LDLD19, SSR<sup>+</sup>14, PB19]. **Study** [ASW91, BF01, CDH<sup>+</sup>97b, DJJ<sup>+</sup>19, GLGLB<sup>+</sup>11, GL97, HL10, HLS<sup>+</sup>17, JW06, KKCB98, KR94, KR95, LC90, MMD98, PPK<sup>+</sup>04, Sci92, TXD<sup>+</sup>07, WGI90, WLB92, WJS<sup>+</sup>90, WW92, BSW<sup>+</sup>14, BDFVP15, CGGC<sup>+</sup>16, CMS<sup>+</sup>11, DTL19, IFA15, IMB<sup>+</sup>19, IGBBR23, KC18, LFB<sup>+</sup>15, MBvdG13, MCR<sup>+</sup>17, OF17, RTRZ22, RRJ<sup>+</sup>20, SMK<sup>+</sup>20, TKA<sup>+</sup>17, THC<sup>+</sup>11, WZH<sup>+</sup>20, YWL<sup>+</sup>14]. **Studying** [BCM<sup>+</sup>03, BOD<sup>+</sup>91, VIKM<sup>+</sup>22]. **subband** [VSS<sup>+</sup>13]. **subcellular** [CHW<sup>+</sup>15]. **Subdomains** [FG97, SO23]. **Subgrid** [GS05]. **Subprograms** [Don02a, Don02b]. **Subroutines** [KJH96, JO92]. **Subsetting** [ZR $\zeta$ <sup>+</sup>06, AMC<sup>+</sup>18]. **substitution** [DTDP14]. **substructures** [SCR11]. **successful** [CBA<sup>+</sup>18]. **Suggestions** [Ano02r, Ano02s]. **suite** [WHTG22]. **Summary** [Moh09, Sal87]. **Summations** [NDMR20]. **Summit** [Ano22a, NBE<sup>+</sup>22]. **SUNDIALS** [BDE<sup>+</sup>25]. **Sunway** [WZH<sup>+</sup>20]. **Supercluster** [HBC<sup>+</sup>08]. **Supercomputer** [ATD<sup>+</sup>88, Ano87b, Ano91b, Ano91a, Ano92g, Ano92e, Ano92f, Ano93a, Ano94a, Ano94c, Ano95b, Ano95a, Ano96a, Ano97b, Ano97c, Ano97a, BBW90, CL95, CLP<sup>+</sup>99, Con88, MKG90, Mai87, McN89, MM90, MA89, Mir90, Mor89a, MR90, Nas92, Sci92, SB04, Web91, WOG95, AGK<sup>+</sup>23, Ano22a, BHZ<sup>+</sup>23, BCP<sup>+</sup>20, Bra91, FU12, KMH<sup>+</sup>14, NBE<sup>+</sup>22, SDI<sup>+</sup>19, Duk91, MAB07, Mar88a]. **Supercomputing** [OCC<sup>+</sup>08]. **Supercomputers** [Ald89, ABF<sup>+</sup>99, AGL<sup>+</sup>87, Bai88, BSBF89,

- BCK<sup>+</sup>89, BWB<sup>+</sup>10, BYT91, Bro88, CDD<sup>+</sup>90, DDM87, Gen88, Mar89a, McN89, MG87, NKiN<sup>+</sup>08, YM91, ZC92, DCD<sup>+</sup>13, EM23, HI12, HI13, IH15, PH91, SLL<sup>+</sup>19, WET<sup>+</sup>19, ZBMK11, Gen88, Bus87, Mar87b]. **Supercomputing** [All88, Blo87, DFP<sup>+</sup>96, EM89, Eri88, Gan88, GKN<sup>+</sup>96, LC90, Mar89b, McN87, MMS88, Nas92, NBB<sup>+</sup>96, Nun87, RS88, SABK94, Aus92, BBB<sup>+</sup>91b, Bra91, BBW90, KT94, MP95, TR92, All88]. **Superconductors** [JP93]. **SuperLU\_DIST** [BHL<sup>+</sup>24]. **Supersonic** [MYC99]. **Surveillance** [HCMR04], **Swapping** [BBS06]. **Support** [BFR02]. **Survey** [RES87, Haj93, PUR94]. **Thelma** [OKTR11]. **Theme** [Hau94]. **Theoretic** [FWSW02, WEPCB12]. **Theoretical** [ASW91, OY22]. **Theory** [BR03, Mer87, Mor89a]. **Thermochemical** [vLRA<sup>+</sup>03]. **Thermodynamics** [GKH<sup>+</sup>91]. **Thin** [MD99, GSK<sup>+</sup>15]. **Thin-Film** [MD99]. **Thinning** [DIB00]. **third** [PFGDM20, Lee03]. **third-order** [PFGDM20]. **thousands** [GHHS15]. **Threaded** [BBG<sup>+</sup>10, LVA<sup>+</sup>13]. **threads** [CLVYC<sup>+</sup>24, DJJ<sup>+</sup>19]. **Three** [BCZM07, BWB<sup>+</sup>10, CSY10, DD91, EGG05, LT90, MT89, TWK87, BE17, CRS<sup>+</sup>19, LSS93, PLJD24, YFS<sup>+</sup>14]. **Three-Dimensional** [BCZM07, CSY10, EGG05, LT90, MT89, BE17, LSS93, PLJD24, YFS<sup>+</sup>14]. **three-phase** [CRS<sup>+</sup>19]. **Throughput** [GHM<sup>+</sup>10, McN89, AGHR19, CMN12, GVR<sup>+</sup>21]. **throughput-oriented** [CMN12]. **Tianhe** [CLM<sup>+</sup>16, HXW<sup>+</sup>13, LYL<sup>+</sup>16]. **Tianhe-1A** [HXW<sup>+</sup>13]. **Tianhe-2** [CLM<sup>+</sup>16, LYL<sup>+</sup>16]. **tightly** [NOM<sup>+</sup>19]. **tiled** [TRS13]. **Tiling** [SCFK04]. **Time** [ACD07, BPBL11, KK01, LJC<sup>+</sup>10, MBF<sup>+</sup>11, Nak99, NRR97, Sim90, VR00, Wri12, BE17, BDE<sup>+</sup>25, BDC21, BSS15, BCH<sup>+</sup>23, DTL<sup>+</sup>21, LST15, MJGL13, QHCC17, QAL<sup>+</sup>23],

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