

# A Bibliography of Publications in *Scientific Programming*

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## Title word cross-reference

[War14]. **2nd** [Nag05b].  
**3** [GBH14]. **3Es** [SZC16].  
+ [BDV03]. **1** [TPKP13]. **2** [PPJ<sup>+</sup>15]. **3** [JR10, MRLF12]. <sup>3</sup> [FP00a]. *H*  
[Che93a, Che93b]. *SM* [Ano07a]. <sup>2</sup>  
[WCZ<sup>+</sup>16]. *d* [TOF<sup>+</sup>14]. *K* [RLC04]. *N*  
[HJ96, War14, WHG93]. *O(N)* [HJ96].  
**4M** [DTV00].  
**590** [Was95].  
**77** [OPE<sup>+</sup>95, Zim07].  
**8i** [KGBB09].  
**90** [McC96]. **95** [RMX05, Sch03a]. **95/2003**  
[RMX05]. **9th** [SO11].  
**ABC** [JFPL16]. **Abstract** [Vol97, Rou08b].  
**abstractions** [Hav00b]. **Acceleration**  
[Jes10, ZSS<sup>+</sup>10]. **Accelerator**  
[TLC15, CIN<sup>+</sup>96]. **accelerators** [KK11].  
**access**  
[CGL08, GL04, GBH14, LOHA01, TKS02].  
**1** [HR12a, KBRS95]. **1999**  
[Met99a, Met99b].  
**2** [GBJ94, HR12b]. **2.0** [HMSM08]. **20**  
[Met99a]. **200** [GBJ94, MJ95]. **2001** [Ger02].  
**2003** [BCCP05, Mor15, RMX05]. **2003/**  
**2008** [Mor15]. **2012** [VR13].  
**2048-processor** [HMCH07]. **2HOT**

**Accessing** [TC96]. **Accuracy** [GMCT15, PDROFRM16, BBDN11]. **Achieving** [BAN02, HLPY16, KFFZ05]. **Acquisition** [ZGS16]. **across** [GR93]. **active** [RLC04]. **Activity** [ZG15]. **Actor** [CSM15, KPS16]. **Actor-Fact** [CSM15]. **ad** [BDM+04]. **Adaptation** [SRO+15, IRSD99]. **Adaptive** [PVL+04, Shu94, BCC+93, BAN02, CW93, EAS+97, GRN99, OHS00, VCT05]. **address** [HUN08]. **ADIFOR** [BCC+92]. **Adjacency** [ZSS+10]. **Adjacency-based** [ZSS+10]. **adjoints** [FC01, HUN08]. **adoption** [NDSG07]. **Advanced** [ATZ+15]. **advances** [Spo12, HPS+13]. **Advantages** [DF14]. **agent** [CJS+02, CGK+05, PVL+04]. **agent-based** [CJS+02]. **aggregation** [IMB+13]. **Agile** [AKA16]. **aided** [IJL+01]. **AIPS** [WHG93]. **Alan** [Ste97]. **algebra** [ACIK97, HKL+12]. **algebraic** [DHH00, Hav00a]. **Algorithm** [ACLS16, CLTX16, FMA16, HJ15, JKR92, KS15, LWV16, MWQ16, SLBZ16, SZC16, TT16, WS15, WWLG16, ZYLZ15, ZHL16, KHSJ95, MJLM07, MSLS13, War14, ZSS+10]. **Algorithms** [CS94, CBRR+16, CW93, DRL13, GIKP95, GA96, HJ96, KTP05, KK09, Lin04, LKDB10, NKV+02, OHS00, RLC04, SZ09]. **Alice** [Nag04]. **aligned** [AGIS94]. **All-Subgraph** [SJ15]. **All-to-all** [MJ95]. **Allocation** [BS01, HLPY16, JFPL16, MPA16, Mor94, RMX05]. **Amazon** [JMR+11, TFN11]. **American** [ZG15]. **Amesos2** [BHRT12]. **among** [LZF16]. **Analysis** [CTCG15, HPZ16, HBCM94, KAS15, KPS16, KOM94, SC16, YG16, AE03, BCK07, BB08, BBF+04, BCHL05, CO93, FO96, HMSM08, JMR+11, LDV07, Lin04, PPS12a, PPS+12b, PDGQ05, Rou08b, SCSJ09, SS00, SGM+08, Sne95, TKS02, TF04, WGW08, GM14]. **analysis-driven** [Rou08b]. **Analyzing** [LSB12, ZCXQ16]. **ANCS** [HLPY16]. **angular** [KMB09]. **Answers** [SHM97]. **Ant** [FMA16]. **Antispam** [PDROFRM16]. **AntStar** [FMA16]. **aperture** [PTS+13]. **AppLeS** [COB+00]. **Application** [ATZ+15, BCS01, KJG+08, Mal01, PPS+12b, YTD15, BBF+04, BFGH14, BBK+11, DFP96, HLM+05, IJL+01, KeKR+11, Bor04]. **Applications** [Ang93, CHM+97, LWYS16, RRM+15, Sne95, BBBM12, BDV03, CHS+99, CKS+09, HZ99, HHML05, LTB02, LPHD04, Nor07, PVL+04, RKR+99, SJR14, SKU+09, Slo12, SB01, SBJV11, WGW08]. **applied** [WGF93]. **Applying** [AIS16, PDROFRM16, SCB02]. **Approach** [AIS16, AKA16, CLA+15, DDMS15, DEL01, FOT92, LGC+16, LWYS16, SPPH15, SSN15, YZ16, ZWZ16, FP95, GG95, KJG+08, KLS+96, LSB12, LB02, PSU08]. **approaches** [OB96]. **approximate** [GG05]. **Approximation** [YTD15]. **arbitrary** [CGL08]. **Architecting** [IR02]. **Architecture** [AKA16, KGMN15, BHK+13, PMTL12, RX04, Rou08b, WB95, KCO+05]. **Architectures** [CCTY15, CKKK15, BFGH14, BBK+11, HPD09, LKDB10, SH94, SJR14, WSP94]. **area** [JEM07]. **arising** [ARvW03]. **Aristotle** [FSV14]. **arithmetic** [Sch03a]. **ARMS** [CJS+02]. **Array** [HBCM94, McC96, ESP+12, Ott93, WHG93, BCS01]. **arrays** [FO96, RN07, TC96]. **Art** [Bry96, BDH+10]. **Artificial** [Gil09]. **ASKALON** [Pro07]. **Aspects** [KAS15]. **Aspen** [SV15]. **Assembly** [JBLB15]. **Assess** [ÁRCPS15]. **Assessing** [LLW+14]. **Assessment** [YG16, MCvM10]. **Assigning** [HY15]. **Assigning-Weight** [HY15]. **Association** [ZYLZ15]. **Atmospheric** [Ros00, SS00]. **atomistic** [ADLN08, NKV+02]. **atomistic-to-continuum** [ADLN08]. **attachment** [MPP+04]. **Author** [Ano97a, Ano99a, Ano00, Ano08a, Ano09, Ano11a, Ano12, Ano14]. **auto**

[DF14, FML<sup>+</sup>14]. **auto-tuning**  
 [DF14, FML<sup>+</sup>14]. **Automated** [SV15].  
**Automatic**  
 [FB99, HZ99, JJY<sup>+</sup>03, SLD<sup>+</sup>16, AGG<sup>+</sup>97,  
 BFGH14, IJL<sup>+</sup>01, Kes96, LP99, OPE<sup>+</sup>95].  
**Automatically** [CBRRRC<sup>+</sup>16].  
**Automating** [CQF05, PPS12a, PPS<sup>+</sup>12b].  
**automation** [HMSM08]. **Autonomic**  
 [KeKR<sup>+</sup>11]. **Available** [RRV09]. **Aware**  
 [BHP<sup>+</sup>03, CGC16, CLYL16, MJB15,  
 OCC<sup>+</sup>16, TT16, HJYC10, IMB<sup>+</sup>13, Zim07].  
**Awareness** [ZHL16]. **AWS** [JMR<sup>+</sup>11].  
**Azure** [HLM<sup>+</sup>11].

**B.E.** [Ano08b]. **Babb** [Per08].  
**backprojection** [PTS<sup>+</sup>13].  
**backprojection-based** [PTS<sup>+</sup>13]. **Backup**  
 [CTCG15]. **Balance** [CKKK15]. **Balancing**  
 [CGC16, VMRM16, LTB02, PVL<sup>+</sup>04].  
**banded** [MSSG11]. **bartering** [Özt04].  
**Based** [ATZ<sup>+</sup>15, BD16, CLA<sup>+</sup>15, CLTX16,  
 CLYL16, DPMB16, HJ15, HY15, HHD<sup>+</sup>16,  
 JFPL16, KS15, KPS16, MFB<sup>+</sup>15, MPA16,  
 MM16, SPPH15, SSN15, SLBZ16, SZXL16,  
 THS<sup>+</sup>15, WS15, WB16, XTCC15, XML<sup>+</sup>16,  
 YZZ15, YZ16, YG16, ZCXQ16, ZWW16,  
 ZWCY16, Abd02, ABB<sup>+</sup>02, AMM05,  
 BMY13, BB08, BGLR93, CJS<sup>+</sup>02, CL04,  
 GRN99, GGJ04, GG05, KK11, Lan01,  
 OPP11, PTS<sup>+</sup>13, PPS12a, Sch03b, TOF<sup>+</sup>14,  
 TKS02, Tým99, WOC99, ZSS<sup>+</sup>10]. **Basic**  
 [BBG<sup>+</sup>93]. **Bayesian** [LB02]. **BE** [RRV09].  
**behavior** [TKS02]. **behaviour** [GGJ04].  
**being** [BKP99]. **Belos** [BHRT12].  
**Benchmark** [Was95, DEvdV01, KGBB09,  
 Mü103, PHH95, RST02]. **benchmarking**  
 [RST02]. **Benchmarks**  
 [PAR94, AE03, HB94, SBM<sup>+</sup>10]. **benefits**  
 [NJ08]. **Best** [Old00]. **better**  
 [BPC<sup>+</sup>09, GA96]. **between** [SH94]. **Beyond**  
 [SF03a, Lin04]. **biclusters** [HB12].  
**Biermann** [Ste97]. **Big** [CTC<sup>+</sup>15]. **Binary**  
 [YDC<sup>+</sup>16, LSB12]. **binding** [VRW<sup>+</sup>03].  
**Biobjective** [CMTAC<sup>+</sup>16]. **Biodiesel**  
 [ZJZ<sup>+</sup>16]. **Biological** [AHCZ12, ZRP08].  
**biomolecular** [BPK00]. **Birds** [SCAP16].  
**BitTorrent** [DRL13]. **Black** [YDC<sup>+</sup>16].  
**BLAS** [ARvW03]. **Blitz** [AJJF14].  
**Blogosphere** [ZG15]. **Bocca** [ANEA08].  
**bodies** [AGIS94]. **body** [HJ96, War14].  
**Book** [Ano07a, Ano07b, Ano07c, Ano11b,  
 Bai08, Bor04, Bro11a, Bro11b, Bro12, Bro09,  
 Bus09, Fil14, GB10, Les10, Man08, Nag04,  
 Nag05a, Nag05b, Nag09a, Nag09b, Nag11a,  
 Nag11b, Nag12]. **books** [Met99a, Met99b].  
**Boosting** [PDROFRM16]. **Boot** [HHD<sup>+</sup>16].  
**Both** [ZHL16]. **breadth** [BAP13].  
**breadth-first** [BAP13]. **bringing** [Pla04].  
**Broadband** [GCP09, IB09, KD09, SKU<sup>+</sup>09,  
 VGC09, WSZK09]. **broadcasts** [DRL13].  
**Broker** [ACB<sup>+</sup>02]. **BSML** [VRW<sup>+</sup>03]. **BSP**  
 [SHM97]. **Building** [VvAC<sup>+</sup>09, RLL<sup>+</sup>02].  
**Bulk** [ZWCY16]. **Burgers** [MRLF12].  
**burst** [BCHL05]. **Bus** [MM16]. **butterfly**  
 [Sch03b].

**C** [Ang93, CO93, Che93a, Che93b, CP03,  
 DNS97, DDMS15, LH93]. **Cache**  
 [AIS16, NsP16, TLC15, Bai95, WC96].  
**caching** [Tým99]. **CAF** [Mar05]. **CaKernel**  
 [BBK<sup>+</sup>11]. **calculus** [RMX05, Rou08b].  
**Call** [Ano97b]. **Camera** [ACLS16]. **can**  
 [Ang93, BFH96]. **cancer** [AMN<sup>+</sup>12].  
**CanonicalProducer** [KCO<sup>+</sup>05].  
**capabilities** [MRLF12, PPS12a, PPS<sup>+</sup>12b].  
**Case**  
 [DS97, Hav00a, McC96, RRM<sup>+</sup>15, AJJF14,  
 GW11, GB94, GL04, MS00, Rou08b, ZS99].  
**Cassandra** [CTCG15]. **Causal** [LDV07].  
**CCA** [ANEA08]. **Cell** [SCAP16, Ano08b,  
 GGP09, IB09, KD09, RRV09, SKU<sup>+</sup>09,  
 VvAC<sup>+</sup>09, VGC09, WSZK09]. **Cell/B.E.**  
 [VvAC<sup>+</sup>09]. **Cells** [BPC<sup>+</sup>09]. **Center**  
 [CTCG15, CGC16]. **Centered** [DDMS15].  
**Centers** [JFPL16, LZF16, ZHL16]. **Centric**  
 [TLC15]. **CFD** [Jes10, JR10]. **Chain**  
 [DPMB16, ZJZ<sup>+</sup>16]. **chains** [HS03].  
**challenges** [NJ08]. **Chance** [SZC16].

**Chance-Constrained** [SZC16].  
**Characteristics** [VMRM16].  
**Characterization** [PCGLO14, MJLM07].  
**Characterizing** [OdSSP13]. **charge** [CBCM93]. **Cheaper** [HUN08].  
**Checkpoint** [CSC16]. **checkpointing** [IMB<sup>+</sup>13]. **Chemistry** [KJG<sup>+</sup>08, SE95].  
**chip** [JK10]. **CHIPPER** [MM16]. **Chips** [TLC15]. **choice** [AJJF14, FB99]. **Cholesky** [CDO<sup>+</sup>96]. **circulation** [Hem00, SS00].  
**Class** [NCMF15, SO93, Ang93].  
**Class-specific** [SO93, Ang93]. **classes** [Ott93, VHBR93, WHG93]. **Classical** [PDROFRM16]. **Classification** [CLYL16, KG08]. **Classifier** [MWQ16].  
**Classifiers** [PDROFRM16]. **Cloud** [ALL<sup>+</sup>16, AIS16, BR11, CTCG15, CTC<sup>+</sup>15, CMTAC<sup>+</sup>16, HPZ16, KPS16, OCC<sup>+</sup>16, Wu16, XST<sup>+</sup>16, ZHL16, JMR<sup>+</sup>11, SBJV11, TSCT11]. **Clouds** [CLYL16, HLPY16, MFB<sup>+</sup>15, ZWZ16, OPP11]. **Cluster** [ACCTA<sup>+</sup>15, SHHI01, SCD<sup>+</sup>15, HMCH07, JEM07, GWZ16]. **Cluster-enabled** [SHHI01]. **clustering** [DRL13, GGJ04].  
**Clusters** [LWW16, BCHL05, BDV03, JR10, KK11, Nag05a]. **CM** [GBJ94, MJ95]. **CM-2** [GBJ94]. **CM-200** [GBJ94, MJ95]. **Co** [RN07, ZGW08, WCZ<sup>+</sup>16, BCS01].  
**Co-Array** [BCS01]. **Co-arrays** [RN07].  
**co-regulations** [ZGW08]. **Coaching** [Ano07a]. **Coarrays** [RRM<sup>+</sup>15]. **coarse** [KB96]. **coarse-grain** [KB96]. **Code** [BCC<sup>+</sup>92, BKLS01, CCBPGA15, ACIK97, BHK<sup>+</sup>13, CP03, Jes10, PKE<sup>+</sup>10]. **Codes** [O<sup>+</sup>K00, BGLR93, IJL<sup>+</sup>01, Kok07, Mal01, NAA<sup>+</sup>03]. **Codesign** [MOS16]. **Coding** [ATZ<sup>+</sup>15, FC01]. **coherence** [WC96].  
**Collaborating** [CL04]. **collaborative** [FML<sup>+</sup>14, KJG<sup>+</sup>08, XNQF04]. **collection** [Hav00b]. **Collections** [BBC<sup>+</sup>10].  
**Collective** [FML<sup>+</sup>14]. **coloring** [BÇCD12].  
**combinatorial** [BÇCD12]. **Combined** [DRR12, HY15, ZLL<sup>+</sup>15]. **Combining** [LGC<sup>+</sup>16, MSH99, MS00]. **combustion** [SE95]. **Common** [BD16].  
**Communication** [GBK<sup>+</sup>96, BDM<sup>+</sup>04, Bry96, ESSL99, KB01, MJ95, PKE<sup>+</sup>10, TPKP13].  
**Communications** [GBJ94, GG95].  
**Community** [KCS15, SSN15].  
**Community-Based** [SSN15].  
**Comparative** [ZS99, OB96]. **Comparing** [FC01, PSM<sup>+</sup>15]. **Comparison** [PBK01, ZG15]. **Compilation** [Ano99b, CP03, ESSL99]. **compile** [MSH99]. **compile-time** [MSH99]. **Compiler** [BMN<sup>+</sup>97, DS97, DZKS13, IRSD99, OSS94, SKS01, Sin99, WC96, Ang93, BGH99, EAS<sup>+</sup>97, HCJ08, Mü103, OB96, SHHI01, SO93, Ben99]. **Compiler-directed** [DZKS13]. **Compiler-enforced** [WC96].  
**Compilers** [CCTY15, Met99a, Met99b]. **compiling** [DDS99, GG95]. **Complete** [Nag05b]. **complex** [Che93a, DSS<sup>+</sup>05, ESSL99]. **Complexity** [Rou08a, ANEA08, PPS12a, PPS<sup>+</sup>12b].  
**component** [KCO<sup>+</sup>05, KJG<sup>+</sup>08, Sch03b]. **component-based** [Sch03b]. **Components** [ADLN08, ZCXQ16, CL04]. **comprehensive** [RST02]. **compressible** [WB95].  
**compression** [IMB<sup>+</sup>13, LLW<sup>+</sup>14].  
**Computation** [Nag05b, SRO<sup>+</sup>15, DSZ96, HST<sup>+</sup>93, IB09, KB01, Lar93, OSS94, PMTL12, PTS<sup>+</sup>13, PKE<sup>+</sup>10, WGF93].  
**Computational** [KAS15, SRTCL16, GW11, GHW00, HLM<sup>+</sup>05, MCvM10, WD07, SLJ<sup>+</sup>00].  
**computations** [CLM05, CFR14, HUN08, HJYC10, PCS99, ZSS<sup>+</sup>10]. **compute** [JIC<sup>+</sup>14]. **compute-local** [JIC<sup>+</sup>14].  
**computer** [BTS<sup>+</sup>14, IJL<sup>+</sup>01, JEM07, KMB09, LDV07, Ste97, WCKD07, WSP94].  
**Computers** [PAR94, HB94, LH93, OS99, PBK01, PMCF94, Shu94]. **Computing** [ALL<sup>+</sup>16, BR11, CTC<sup>+</sup>15, DK02, DDMS15, GM14, GGP09, HPZ16, Nag04, PSM<sup>+</sup>15, PT09a, PT09b, VR13, WWLG16, YTD15, ACB<sup>+</sup>02, Ano08b, AB96, BKK<sup>+</sup>11, BH12,

BDG<sup>+94</sup>, BBK<sup>+11</sup>, BC99, BÇCD12, BDH<sup>+10</sup>, CJS<sup>+02</sup>, CM02, Che93b, DDMS14, DRR12, FB99, FP00b, GW11, GGMS99, GHH<sup>+02</sup>, Hav00a, JIC<sup>+14</sup>, KeKR<sup>+11</sup>, KLS<sup>+96</sup>, LPHD04, LG03, MMG<sup>+02</sup>, NJ08, Nor07, NDSG07, Rou08a, SKU<sup>+09</sup>, VCT05, VF95, WGW08, Zim07, HHML05, JEM07, SO11, Mic97]. **concept** [BMY13]. **concept-based** [BMY13]. **Concepts** [DNS97, NDSG07]. **Concurrent** [BBC<sup>+10</sup>]. **Conditional** [BCK07]. **Conference** [GM14]. **Confidence** [ÁRCPS15]. **Config** [MS00]. **configuration** [CQF05]. **conjugate** [GG05]. **CONLAB** [JKR92]. **Connection** [GBJ94, MJ95]. **connectivity** [PSU08]. **conquer** [MGK<sup>+13</sup>]. **considerations** [GHST12]. **Consistency** [ZLL<sup>+15</sup>]. **Consolidation** [CLYL16]. **constant** [CGL08]. **constant-time** [CGL08]. **Constrained** [MFB<sup>+15</sup>, SZC16, YZ16, LBvBW12]. **Constraint** [SW16]. **Constraints** [BD16, LR05]. **Constructing** [BBBM12]. **construction** [MOT97]. **constructs** [CP95, RS94]. **continuum** [ADLN08]. **contour** [RLC04]. **contraction** [PMCF94]. **Control** [HXX16, FP95, GR93]. **convergence** [HMCH07]. **Converter** [VMRM16]. **cooperative** [CR05]. **Coordinate** [Bjø00, GHW00]. **Coordinated** [PRM<sup>+14</sup>]. **Coordination** [CHM<sup>+97</sup>]. **coping** [Hil97]. **Coprocessor** [SRO<sup>+15</sup>]. **Coprocessors** [TSP<sup>+15</sup>]. **CORBA** [Lan01]. **Core** [CKKK15, TC96, TLC15, JR10, JIC<sup>+14</sup>, PTS<sup>+13</sup>, PT09a, PT09b, Zhe10, DGH<sup>+15</sup>, Nag05b]. **coregulation** [HB12]. **Corral** [JDVM10]. **correlation** [KMB09]. **cosmological** [War14]. **cosmology** [BAN02]. **Cost** [MFB<sup>+15</sup>, Wu16, BKP99, JMR<sup>+11</sup>, PMCF94, SZ04]. **Cost-Effective** [Wu16]. **coupling** [GRN99]. **course** [ZGW08]. **courses** [Met99a, Met99b]. **CPU** [CFR14]. **CPU/GPU** [CFR14]. **CPUs** [LNK<sup>+15</sup>, YTD15]. **CRAFT** [PMM94]. **cratering** [HLM<sup>+05</sup>]. **CRAUL** [IRSD99]. **Creating** [BKLS01]. **Critical** [NM16, ZA10]. **cross** [BHK<sup>+13</sup>, GA96]. **cross-architecture** [BHK<sup>+13</sup>]. **crunching** [GB94]. **crystals** [GIKP95]. **CSE** [CHC15]. **Cuckoo** [WS15]. **custom** [NAA<sup>+03</sup>]. **customizable** [WOC99]. **Customized** [XST<sup>+16</sup>]. **CX** [CM02]. **Cycle** [ZCXQ16].

**D** [Nag05a, JR10, MRLF12, PPJ<sup>+15</sup>, TPKP13]. **Data** [AIS16, CTCG15, CTC<sup>+15</sup>, CSC16, CGC16, HJ15, HMC97, JFPL16, KPS16, LR05, LZF16, MJB15, SZXL16, SSM<sup>+02</sup>, THS<sup>+15</sup>, WCG95, Wu16, ZHL16, AMN<sup>+12</sup>, AHCZ12, AGG<sup>+97</sup>, CDD<sup>+05</sup>, CvHK97, CP95, DRT<sup>+14</sup>, Gil09, Hav00b, HJ96, HS03, IB09, IMB<sup>+13</sup>, KG08, KB96, KGV97, KVW<sup>+07</sup>, LOHA01, LLW<sup>+14</sup>, Lin04, NPP<sup>+00</sup>, Özt04, PSU08, PDGQ05, Pla04, PMCF94, RR07, RKR<sup>+99</sup>, Rou08b, SVR<sup>+07</sup>, Sin99, Slo12, SG96, TFN11, VRW<sup>+03</sup>, VRM02, WHRH07, War96, ZRP08, ZS99, ZGW08, ZSS<sup>+10</sup>, vDKH01]. **data-aware** [IMB<sup>+13</sup>]. **data-intensive** [DRT<sup>+14</sup>, Slo12]. **Data-parallel** [HMC97, WCG95, CvHK97, Hav00b, HJ96, ZS99]. **data-structure-neutral** [SG96]. **Database** [CTC<sup>+15</sup>, HMSW92, BDLL94, MSLS13, WSZK09]. **databases** [TSCT11]. **Datasets** [SZAG15, BCHL05, HB12]. **David** [Ano07c, Nag05b]. **DDT** [AGG<sup>+97</sup>]. **de-allocation** [RMX05]. **Deadline** [MFB<sup>+15</sup>]. **Deadline-Constrained** [MFB<sup>+15</sup>]. **deadlock** [HPS<sup>+13</sup>]. **debugging** [FP00b]. **Decision** [MWQ16]. **Decisions** [ZGS16]. **decomposition** [DBVF01, GRN99, JHNP14]. **Deduplication** [CSC16]. **definition** [HS03]. **definition-use** [HS03]. **Degree** [ZCXQ16, ZWW16]. **Delays** [HXX16]. **Delegated** [ITF<sup>+08</sup>]. **Demand** [ZJZ<sup>+16</sup>, Ang93]. **Demands** [SLBZ16].

**Dense** [YTD15]. **dependence** [BH02, Lin04]. **Derivative** [BCC+92]. **derivatives** [Met99a, Met99b]. **derived** [RMX05]. **descriptions** [MPP+04]. **Design** [CFR14, CDO+96, CIN+96, GHST12, GSM03, HMR+15, O’K00, PPD05, RX04, SS00, SG96, SV15, ZWW16, DRT+14, DSZ96, FP95, PDA+08]. **Designing** [HPZ16, Lin04]. **designs** [OHS00]. **Detection** [BD16, CLA+15, HJ15, KCS15, XML+16, HPS+13]. **Determine** [NM16]. **Determining** [ADS95, BH02]. **Development** [AKA16, Ano07a, FS01, HLM+05, PT09a, PT09b, SB01, VHBR93, ARvW03, Ano93, JKR92, KJG+08, SDS00]. **Diagrams** [NCMF15]. **Difference** [Vol97, VHBR93]. **Different** [GMCT15]. **differential** [Gus93, PPS+12b]. **digit** [BSF96]. **digit-index** [BSF96]. **dilemma** [BFH96]. **dimensional** [Kok07, KBRS95, WHG93]. **Dimensionality** [SZAG15]. **Direct** [BHRT12]. **directed** [DZKS13]. **Direction** [BAP13]. **Direction-optimizing** [BAP13]. **Directive** [XTCC15]. **Directive-Based** [XTCC15]. **Directives** [CCBPGA15, LOHA01]. **Discover** [ZGW08, HB12]. **discoveries** [Gil09]. **Discovering** [DPMB16]. **Discovery** [GB15, AHCZ12, MPP+04, WD07]. **Distributed** [BBG+93, BMN+97, KPS16, SO11, SO15, BKK+11, DSS+05, FP00a, FS01, HMCH07, JKR92, KMR+97, KGV97, KABW11, LTB02, MSLS13, OB96, RLL+02, RS95, SHHI01, Shu94, XNQF04, ZA10]. **distributed-object** [FS01]. **Distributing** [ASCH+07]. **Distribution** [MJB15, ZWW16, ACIK97, AGG+97, CP95, KK09, NPP+00]. **distributions** [KTP05]. **divide** [MGK+13]. **DMZ** [DRT+14]. **DNA** [KTP05]. **do** [Ang93, GA96]. **Domain** [JBLB15, GRN99, JHNP14]. **Dongarra** [Nag05b]. **Driven** [BR11, Kes96, KVW+07, Rou08b]. **DSMPI** [SSC97]. **DSP** [YZZ15]. **Dual** [ACCTA+15, ZGS16]. **Dual-Source** [ZGS16]. **during** [AKA16]. **DWD** [SDS00]. **Dynamic** [CMM+02, CP03, GWZ16, HPZ16, HLPY16, KLN+04, LTB02, RMX05, WD07, WHRH07, HS03, MSCS14, RKR+99, Shu94, VCT05]. **dynamical** [CO93]. **dynamics** [BCS01, BPK00, GIKP95, GHW00]. **Early** [HLM+11]. **EC2** [TFN11]. **ECMWF** [DTV00]. **Ecology** [WCZ+16]. **ed** [Nag05b]. **edited** [Bry96]. **Editor** [Sne95]. **Editorial** [Ger02, O’K00]. **editors** [Pre99]. **education** [DDMS14]. **EEG** [ADS95]. **Effect** [AKA16]. **Effective** [TSP+15, Wu16]. **effects** [CBCM93, GIKP95, LLW+14]. **Efficiency** [CGK+05, JFPL16, Mat94, STD+14]. **Efficient** [CTCG15, CSM15, DRL13, HJ15, IB09, MOS16, PTS+13, RLC04, SCAP16, TT16, CGL08, GL04, KABW11, SZ04, TFN11]. **Efficiently** [RLL+02, HJ96]. **Eigensolver** [BH96]. **Ejector** [CCBPGA15]. **ELASTIC** [MSCS14]. **Elasticity** [ALL+16, Kok07]. **Electric** [WCKD07]. **electronic** [CL04]. **Element** [Ano07b, JBLB15, SO15, VHBR93, WGF93, ZSS+10]. **elements** [Hem00]. **Elimination** [PPJ+15]. **elliptic** [AGIS94, JHNP14]. **Ellis** [Bry96]. **Embedded** [JBLB15, YZZ15, PPS12a, PPS+12b]. **Empirical** [CTCG15, HBCM94]. **Emulating** [Mor15]. **enabled** [CDD+05, KVW+07, SHHI01]. **Enabling** [BTS+14, GBH14, HJYC10, Mic97, vDKH01, Nor07]. **encoding** [LSB12]. **Energy** [CLYL16, JFPL16, TT16, ZHL16, CKS+09, PRM+14, STD+14]. **Energy-Aware** [CLYL16]. **Energy-Awareness** [ZHL16]. **Energy-Efficiency** [JFPL16]. **Energy-Efficient** [TT16]. **enforced** [WC96]. **engine** [KVW+07, NPP+00, GGP09, IB09, KD09,

SKU<sup>+09</sup>, VGC09, WSZK09]. **engineer** [Hil97]. **Engineering** [Ano07a, CHC15, Nag05b, HP02, MS00]. **Enhancing** [FMA16]. **ensemble** [AMN<sup>+12</sup>]. **Entire** [YZZ15]. **Enumeration** [SJ15]. **Environment** [CTC<sup>+15</sup>, GBK<sup>+96</sup>, BBF<sup>+04</sup>, BGLR93, BDG<sup>+94</sup>, BBLR03, CB99, FS01, HMC97, Lan01, Lar93, MSCS14, PVKE01, Pro07, VF95]. **Environments** [OCC<sup>+16</sup>, EAS<sup>+97</sup>, GGMS99, GRC03, RLL<sup>+02</sup>, VCT05, VRW<sup>+03</sup>, ZA10, Bry96]. **epidermal** [GGJ04]. **Epoch** [HJ15]. **Epoch-Based** [HJ15]. **ePRO** [CKS<sup>+09</sup>]. **ePRO-MP** [CKS<sup>+09</sup>]. **Equalization** [VMRM16]. **equation** [MRLF12]. **Equations** [YTD15, Gus93, PPS<sup>+12b</sup>]. **error** [HPS<sup>+13</sup>]. **estimation** [TOF<sup>+14</sup>]. **estimator** [FP00a]. **estuary** [KBRS95]. **Evaluating** [HY15, SZ09]. **Evaluation** [LNK<sup>+15</sup>, SCD<sup>+15</sup>, BC99, ZS99]. **Event** [HXX16, Kuf15, THS<sup>+15</sup>, OPP11]. **event-based** [OPP11]. **Event-Triggered** [HXX16]. **events** [ZA10]. **Evolution** [Bor04]. **Example** [ZG15, Den96]. **Execution** [Mar05, FS01, HLM<sup>+05</sup>, Slo12, ZS99]. **executions** [RR07]. **Expands** [WCZ<sup>+16</sup>]. **Expected** [YZ16]. **Experiences** [CvHK97, JR10, JDVM10, Lar93]. **experiment** [BCCP05]. **experiments** [BKK<sup>+11</sup>, PDA<sup>+08</sup>]. **Expert** [OB96]. **Explaining** [SH94]. **Explicit** [SF03b, SF03a]. **exploit** [BPC<sup>+09</sup>]. **Exploiting** [HPD09]. **Exploration** [SV15]. **Exploring** [JK10, JIC<sup>+14</sup>, MRLF12]. **Express** [DNS97]. **expressing** [JK10]. **expression** [PCS99, ZGW08]. **Extended** [TC96]. **Extending** [BCC<sup>+00</sup>]. **extension** [PPD05]. **Extracting** [NCMF15]. **extraction** [Abd02]. **extreme** [BAN02]. **Fact** [CSM15]. **factor** [GGJ04]. **factorial** [PDA<sup>+08</sup>]. **Factorization** [DEL01, CDO<sup>+96</sup>, KD09, VGC09]. **factory** [JMR<sup>+11</sup>]. **fair** [BTS<sup>+14</sup>]. **Fast** [BSF96, JFPL16, SJ15, HST<sup>+93</sup>]. **Fastscat** [HST<sup>+93</sup>]. **fault** [ZA10]. **fault-tolerance** [ZA10]. **Faults** [HXX16]. **Feature** [CLTX16, KS15]. **Feedback** [MPA16]. **Feedback-Based** [MPA16]. **FFT** [Sch03b, TPKP13]. **field** [VHBR93]. **Fields** [ACCTA<sup>+15</sup>]. **file** [DZKS13, Met99a, Met99b]. **files** [CGL08]. **Filtering** [FGROL<sup>+16</sup>]. **Final** [ZGS16]. **financial** [LPHD04]. **fine** [HPD09]. **fine-grain** [HPD09]. **Finite** [Ano07b, JBLB15, Vol97, VHBR93, WGF93, ZSS<sup>+10</sup>]. **Fink** [Hil97]. **first** [BAP13]. **Fitting** [VRM02]. **five** [GA96]. **Flexible** [ESSL99, RS94, GHST12, MSLS13]. **flood** [MCvM10]. **Flow** [CCBPGA15, ADLN08, FP95, GR93, WB95]. **fluid** [GHW00]. **Fly** [HJ15]. **footprint** [SVR<sup>+07</sup>]. **force** [AJ94]. **forecast** [DTV00, Ros00]. **forecasting** [WCG95]. **Foreword** [Ano05, CK08]. **format** [CGL08]. **Formation** [SCAP16, BAN02]. **Formula** [AJJF14]. **formulation** [KHSJ95]. **Fortran** [Ben99, Ano93, DDS99, Zim07, ACIK97, AJJF14, AGG<sup>+97</sup>, BCS01, BCC<sup>+92</sup>, BMN<sup>+97</sup>, CMZ92, DS97, Hig93, HMR<sup>+15</sup>, HZ99, KMR<sup>+97</sup>, KOM94, KGV97, LP99, McC96, MH95, Met99a, Met99b, Mor15, NCMF15, NDSG07, OPE<sup>+95</sup>, PMM94, PCS99, RRM<sup>+15</sup>, RN07, RMX05, Sch03a, Sny07, Szy07]. **Fortran-like** [KGV97]. **Fortran-P** [OPE<sup>+95</sup>]. **FORTTRAN/journal** [Ano93]. **Fortran90** [DNS97]. **Fortran95** [DN04]. **ForTrilinos** [MRLF12]. **ForUML** [NCMF15]. **Forward** [ACCTA<sup>+15</sup>]. **FP** [JFPL16, ZYLZ15]. **FP-ABC** [JFPL16]. **FP-Growth** [ZYLZ15]. **FPGA** [OCC<sup>+16</sup>]. **FPGA-Aware** [OCC<sup>+16</sup>]. **Fractional** [PDA<sup>+08</sup>]. **Fragmentation** [GWZ16]. **Framework** [BGLR93, CKKK15, FGROL<sup>+16</sup>, Pla04, SZAG15, SW16, SZXL16, ACB<sup>+02</sup>, ACIK97,

BDM<sup>+04</sup>, BBK<sup>+11</sup>, BHK<sup>+13</sup>, CR05, DSS<sup>+05</sup>, MCvM10, OPP11, TPKP13]. **Framework-based** [BGLR93]. **Free** [ZWW16, Bjø00, GHW00]. **friendly** [Hem00]. **Fujitsu** [DTV00]. **function** [KMB09]. **Functional** [BH96, DFP96, Den96, WC96]. **Fusion** [MWQ16, PKE<sup>+10</sup>]. **future** [JIC<sup>+14</sup>]. **Fuzzy** [NM16, SZC16].

**G** [ABB<sup>+02</sup>, KVW<sup>+07</sup>, TF04]. **gamma** [BCHL05]. **gamma-ray** [BCHL05]. **gap** [SH94]. **GCR** [CKKK15]. **GDMP** [SSM<sup>+02</sup>]. **Geant4** [SCD<sup>+15</sup>]. **gene** [ZGW08]. **general** [Hem00, Mat94, RR07, SS00, SF03b, SF03a]. **Generalized** [CBRRC<sup>+16</sup>]. **Generating** [SO15, BCC<sup>+92</sup>]. **generation** [BDM<sup>+04</sup>, BHK<sup>+13</sup>]. **generator** [SF03b, SF03a]. **generic** [BH12, PPS12a, VHBR93]. **Genetic** [CLTX16, KS15]. **gentle** [Ste97]. **GFDL** [Hem00]. **ghosting** [MSLS13]. **Giga** [GKL<sup>+96</sup>]. **Global** [AKA16, KGMN15, Ros00, WB16, FC01, HMCH07, Wan02]. **GMA** [KCO<sup>+05</sup>]. **GMRES** [PBK01]. **Gockenbach** [Ano07b]. **Good** [Ano07c, Mat03]. **Gordon** [Per08]. **governed** [BH02]. **GPU** [CCBPGA15, GW11, Jes10, XTCC15, YTD15]. **GPUs** [BBDN11]. **gradient** [GG05]. **grain** [HPD09, KB96]. **Granularity** [WS15]. **Graph** [Lin04, PMCF94]. **Graphical** [PHH95]. **graphics** [BB09]. **Gravitational** [ACCTA<sup>+15</sup>]. **Great** [Ste97]. **Grid** [DK02, KCO<sup>+05</sup>, ACB<sup>+02</sup>, CJS<sup>+02</sup>, GRC03, MPP<sup>+04</sup>, Pla04, HP02, ABB<sup>+02</sup>, ACB<sup>+02</sup>, AMM05, BBF<sup>+04</sup>, BBL08, COB<sup>+00</sup>, CQF05, HHML05, HLM<sup>+05</sup>, KFFZ05, KVW<sup>+07</sup>, KLN<sup>+04</sup>, MAG<sup>+07</sup>, PPD05, Pro07, Rom02, SZ04, SSM<sup>+02</sup>, TF04, VCT05]. **Grid-based** [ABB<sup>+02</sup>]. **Grid-enabled** [KVW<sup>+07</sup>]. **GRIDCC** [MAG<sup>+07</sup>]. **GridLab** [KLN<sup>+04</sup>]. **Grids**

[PPJ<sup>+15</sup>, SN02, ITF<sup>+08</sup>, Özt04, SLJ<sup>+00</sup>]. **GridWay** [HHML05]. **Grinding** [WS15]. **GROMOS96** [BCS01]. **Groovy** [PSM<sup>+15</sup>]. **GroovyLab** [PSM<sup>+15</sup>]. **Group** [DPMB16]. **Growth** [ZYLZ15, GGJ04, Szy07]. **Grunwald** [Bry96]. **GSSIM** [BKK<sup>+11</sup>]. **GTS** [PKE<sup>+10</sup>]. **Guest** [Ger02, O’K00, Sne95]. **Guest-Editorial** [Ger02, O’K00]. **Guide** [Ano07c, Hil97]. **guidelines** [GB94].

**H** [Hil97, Mic97]. **Hadoop** [SZXL16]. **Handling** [Che93a]. **Hardware** [DGH<sup>+15</sup>, MOS16, vDKH01]. **Hardware/Software** [MOS16]. **hashed** [War14]. **HBBase** [CTCG15]. **help** [BFH96]. **HeNCE** [BDG<sup>+94</sup>]. **heterogeneity** [LR05]. **Heterogeneous** [BB09, CCTY15, HMSW92, LWW16, SRO<sup>+15</sup>, TT16, WWLG16, BCHL05, BDG<sup>+94</sup>, BBK<sup>+11</sup>, BDH<sup>+10</sup>, DRL13, JHNP14, KK11, PVL<sup>+04</sup>, PRM<sup>+14</sup>, RLL<sup>+02</sup>]. **Heuristic** [LWW16]. **Heuristics** [KGMN15, SLBZ16, FB99]. **Heuristics-Based** [SLBZ16]. **Hidden** [XML<sup>+16</sup>, BH02, LB02, VRM02]. **hierarchical** [BDV03, DZKS13]. **Hierarchically** [YTD15]. **hierarchy** [BPC<sup>+09</sup>]. **High** [Ano99b, Ano08b, CTCG15, GM14, GGP09, GBK<sup>+96</sup>, HMR<sup>+15</sup>, HKL<sup>+12</sup>, LBvBW12, Nag05a, Nor07, WSZK09, AB96, BTS<sup>+14</sup>, CB99, FP00b, GGMS99, IR02, KMB09, Lan03, LG03, MMG<sup>+02</sup>, NJ08, VvAC<sup>+09</sup>, Zim07, ACIK97, Ano93, AGG<sup>+97</sup>, BMN<sup>+97</sup>, DS97, KMR<sup>+97</sup>, KOM94, KGV97, MH95]. **High-level** [LBvBW12]. **High-Performance** [GBK<sup>+96</sup>, HMR<sup>+15</sup>, HKL<sup>+12</sup>, AB96, FP00b, KMB09, LG03]. **high-resolution** [VvAC<sup>+09</sup>]. **highly** [GBH14]. **highly-scalable** [GBH14]. **HMM** [Abd02]. **HMM-based** [Abd02]. **hoc** [BDM<sup>+04</sup>]. **Hole** [YDC<sup>+16</sup>]. **homogeneity** [KTP05]. **host** [Din99]. **HPC** [BFGH14, DGH<sup>+15</sup>, STD<sup>+14</sup>]. **HPF**



[BDV03]. **HSIP** [WWLG16]. **Humphrey** [Ano07a]. **Huss** [Nag05b]. **Hybrid** [ÁRCPS15, ATZ<sup>+</sup>15, DFP96, KS15, SW16, SZC16, WS15, CFR14, JR10, KeKR<sup>+</sup>11]. **Hypervisor** [OCC<sup>+</sup>16]. **Hysteresis** [WS15].

**I/O** [OSLK12, NsP16]. **IBM** [KGBB09, Was95]. **Ideas** [BBG<sup>+</sup>93, Ste97]. **Identifying** [ZCXQ16]. **IDL** [ESSL99]. **IFS** [DTV00]. **II** [PPS<sup>+</sup>12b, Per08]. **image** [GKL<sup>+</sup>96, RLC04]. **images** [VvAC<sup>+</sup>09]. **impact** [FSV14, HLM<sup>+</sup>05]. **imperative** [DFP96]. **Implementation** [BHP<sup>+</sup>03, CTC<sup>+</sup>15, KMB09, NsP16, SKU<sup>+</sup>09, SSC97, TOF<sup>+</sup>14, BS01, BDV03, CBCM93, CDO<sup>+</sup>96, CIN<sup>+</sup>96, CW93, FS01, Gus93, PPD05, PCS99]. **implementations** [ADS95, BH96, PBK01]. **implemented** [Hav00b]. **Implementing** [Ano07b, CS94, HJ96, Lan03, VGC09, YZZ15, DN04]. **implications** [DF14]. **implicit** [SCSJ09]. **Improve** [AIS16, GB15, Sin99]. **Improved** [ZYLZ15, War14, vDKH01]. **Improving** [BBDN11, RR04]. **Impulse** [CHS<sup>+</sup>99]. **Incorporating** [BGH99]. **incremental** [TOF<sup>+</sup>14]. **independent** [GL04]. **Index** [Ano99a, Ano00, Ano08a, Ano09, Ano11a, Ano12, Ano14, CTC<sup>+</sup>15, XML<sup>+</sup>16, Ano97a, BSF96]. **indicator** [FSV14]. **Individual** [GGJ04]. **Individual-based** [GGJ04]. **Indoor** [LWYS16]. **Industrial** [Nag04, ZCXQ16]. **Inferring** [PSU08]. **inflation** [OdSSP13]. **influence** [SCSJ09]. **influences** [RX04]. **influenza** [LSB12]. **informatics** [BFH96]. **Information** [AIS16, Met99a, Met99b, PHH95]. **Infrastructure** [CMTAC<sup>+</sup>16, SPPH15, KeKR<sup>+</sup>11, Rom02, SGM<sup>+</sup>08]. **Infrastructure-Based** [SPPH15]. **Inheritance** [Mor15]. **input** [GB94]. **Insights** [WCZ<sup>+</sup>16]. **Instruction** [GR93]. **instrument** [KCO<sup>+</sup>05]. **Integrated** [DGH<sup>+</sup>15, RKR<sup>+</sup>99]. **Integrating** [FMA16]. **integration** [IRSD99]. **Integrity** [HHD<sup>+</sup>16].

**Intel** [CBCM93, DGH<sup>+</sup>15, SCD<sup>+</sup>15, SRO<sup>+</sup>15, TSP<sup>+</sup>15]. **Intelligence** [NM16, SRTCL16, WCZ<sup>+</sup>16, Gil09]. **Intelligent** [GBK<sup>+</sup>96, SZC16]. **Intel(R)** [BGH99]. **intensive** [DRT<sup>+</sup>14, Slo12]. **Inter** [ITF<sup>+</sup>08]. **Inter-operating** [ITF<sup>+</sup>08]. **interactive** [BBLR03, KVW<sup>+</sup>07]. **interchange** [VRW<sup>+</sup>03]. **Interest** [DPMB16, MGK<sup>+</sup>13]. **Interface** [SLD<sup>+</sup>16, Spo12, WOC99]. **Interfaces** [BKLS01]. **interference** [SCSJ09]. **intermediate** [Tým99]. **International** [GM14, PAR94, SO11, HB94]. **Internet** [WCZ<sup>+</sup>16]. **Interpreting** [PDGQ05]. **Interprocedural** [HBCM94, HS03]. **intervals** [CGL08]. **Intrepid** [BEK<sup>+</sup>12]. **Introduction** [Ano01, Ano02, Ano04a, MH95, PT09a, Sne95, VC93, WSP94, Ste97]. **Inventory** [ZGS16]. **inverse** [Wan02]. **inverses** [GG05]. **Investigating** [HMCH07, OPP11]. **iPSC** [CBCM93]. **iPSC/860** [CBCM93]. **irradiation** [GIKP95]. **Irregular** [KB96, PCS99, LOHA01, LP99]. **Isorropia** [BÇCD12]. **Issue** [JK10, PT09a, PT09b, SO11, VR13, BFGH14, BR11, GM14, HR12a, HR12b]. **Issues** [Ano99b, McC96, ARvW03]. **Itanium(R)** [GHH<sup>+</sup>02]. **iterative** [BHRT12, DEvdV01, SG96].

**J** [Hil97]. **Jack** [Nag05b]. **Jacobi** [BH96]. **JADE** [CGK<sup>+</sup>05]. **Janet** [BKLS01]. **Jason** [PCGLO14]. **Java** [Ano99b, BC99, BKLS01, DDS99, GRN99, GGMS99, MR02, MMG<sup>+</sup>02, PMTL14, Tým99, WOC99]. **Java-based** [GRN99, WOC99]. **Java<sup>TM</sup>** [BGH99]. **JIST** [ARFS05]. **JIT** [BGH99]. **JLAPACK** [DDS99, PMTL12]. **job** [FS01, KLN<sup>+</sup>04]. **job-execution** [FS01]. **Joseph** [Nag05a]. **Jr.** [Hil97]. **Just** [ARFS05]. **Just-In-Time** [ARFS05].

**Kaiser** [Bry96]. **Kemari** [KMR<sup>+</sup>97].

**kernels** [FSV14]. **Key** [Hem00].

**Knowledge**

[HMSM08, YG16, AHCZ12, Gil09]. **Kokkos** [ESP<sup>+</sup>12]. **Komzsis** [Bor04]. **Koniges** [Nag04]. **KSR** [KBRS95]. **KSR-1** [KBRS95].

**laboratory** [ABB<sup>+</sup>02]. **laminar** [FP95].

**Lanczos** [Bor04]. **Landau** [Hil97].

**Language** [CHM<sup>+</sup>97, CP95, Hig93, JBLB15, AJ94, AMM05, AJJF14, BBG<sup>+</sup>93, CLM05, Che93a, Che93b, DSZ96, GGMS99, LG03, Met99a, Met99b, RS94, Szy07, VRW<sup>+</sup>03, VF95, WC96]. **Languages** [CCTY15, HJ96, JK10, KGV97, Mar05, Zim07]. **LAPACK** [ARvW03, DDS99]. **Large** [SZAG15, SZXL16, TSCT11, BHRT12, BPK00, CGL08, JEM07, MJLM07, MSCS14, RS94, WGW08].

**large-area** [JEM07]. **Large-Scale**

[SZAG15, MJLM07, WGW08]. **Latency**

[Kuf15, RS95]. **Lattice** [IB09]. **layout**

[DZKS13]. **leadership** [WGW08]. **Learning** [PDROFRM16, KG08, LB02, PVL<sup>+</sup>04].

**Lederman** [Nag05b]. **Legacy** [RRM<sup>+</sup>15].

**LEO** [CCBPGA15]. **Letter** [Pre99]. **Level**

[OCC<sup>+</sup>16, Vol97, COB<sup>+</sup>00, LBvBW12,

RRV09]. **libraries**

[ARvW03, PMTL12, PMTL14, SG96].

**library** [BŽvA<sup>+</sup>01, ESP<sup>+</sup>12, GHST12,

GL04, GSM03, Lan03, VGC09]. **life**

[KFFZ05]. **Lifting** [Sch03b]. **lightweight**

[Ott93]. **like** [KGV97, PMTL14]. **Linda**

[Lar93, Mat94]. **line**

[BBF<sup>+</sup>04, RLL<sup>+</sup>02, SCB02]. **Linear**

[ACIK97, WB16, YTD15, BHRT12,

HKL<sup>+</sup>12, Kok07, MSSG11, RR07, SG96].

**Linearization** [WB16]. **Link**

[CSM15, GMCT15, SSN15]. **linked** [HS03].

**Linpack** [KGBB09]. **Linux**

[Nag05a, HHD<sup>+</sup>16]. **Live** [JFPL16]. **Load**

[CKKK15, Din99, IRSD99, LTB02, PVL<sup>+</sup>04].

**Local** [LGC<sup>+</sup>16, FSV14, JIC<sup>+</sup>14, ZGW08].

**Locality** [MJB15, TLC15, HJYC10, RR04,

Sin99, Zim07]. **Locality-Aware**

[MJB15, HJYC10, Zim07].

**Locality-Centric** [TLC15]. **Locations**

[Kuf15]. **Logging** [ZLL<sup>+</sup>15]. **long** [KTP05].

**lookup** [WSB11]. **loop** [NAA<sup>+</sup>03]. **loops**

[LOHA01]. **Louis** [Bor04]. **Low**

[RS95, YTD15, HB12, SZ04, TPKP13].

**low-communication** [TPKP13]. **low-cost**

[SZ04]. **Low-Rank** [YTD15]. **low-variance**

[HB12]. **LPARX** [KB96]. **LU**

[CDO<sup>+</sup>96, DEL01]. **Lung** [AMN<sup>+</sup>12].

**Machine**

[AGIS94, CGC16, CLTX16, Hav00b, MJ95, PDROFRM16, SCAP16, ZHL16, GBJ94].

**Machine-Part** [SCAP16]. **Machines**

[BMN<sup>+</sup>97, SJ15, SO15, BCC<sup>+</sup>93, BCC<sup>+</sup>00,

HMCH07]. **MAGMA** [DGH<sup>+</sup>15].

**magnetic** [PKE<sup>+</sup>10]. **make** [Sch94].

**Management** [CMTAC<sup>+</sup>16, THS<sup>+</sup>15,

YG16, BCK07, CJS<sup>+</sup>02, IB09, KeKR<sup>+</sup>11,

KABW11, KLN<sup>+</sup>04, PRM<sup>+</sup>14, vDKH01].

**Managing** [ANEA08, AKA16, CDD<sup>+</sup>05,

PPS12a, PPS<sup>+</sup>12b]. **Many**

[CKKK15, TLC15, PTS<sup>+</sup>13, DGH<sup>+</sup>15].

**Many-Core** [CKKK15, TLC15, PTS<sup>+</sup>13].

**Many-Integrated-Core** [DGH<sup>+</sup>15].

**Manycore** [CCTY15, ESP<sup>+</sup>12, MJB15].

**Maple** [PPD05]. **mapping**

[DSS<sup>+</sup>05, Den96, DRR12, PMCF94, SZ04].

**MapReduce** [MPA16].

**MapReduce-Based** [MPA16]. **maps**

[KTP05]. **Marc** [Nag05b]. **Mark** [Ano07b].

**Markov** [BH02, LB02, VRM02]. **markup**

[VRW<sup>+</sup>03]. **Mary** [Bry96]. **massive** [JK10].

**Massively** [GA96, Nag04, LH93, OPE<sup>+</sup>95,

SS00, Sch94, WMR<sup>+</sup>94, WB95, WSP94].

**Matching** [TLC15]. **MatchMaking**

[ITF<sup>+</sup>08]. **Materials** [HMSW92, NKV<sup>+</sup>02].

**Mathematical** [LGC<sup>+</sup>16]. **Matheuristic**

[LGC<sup>+</sup>16]. **MATLAB**

[PMTL14, CB99, Kok07]. **MATLAB-like**

[PMTL14]. **Matrices** [CSM15]. **Matrix**

[DEL01, VMRM16, YTD15, BBDN11,

CFR14, KHSJ95, Lin04, VGC09].

**Maximizing** [HY15]. **May** [Met99a, Met99b]. **MC2** [DTV00]. **McrEngine** [IMB<sup>+</sup>13]. **means** [RLC04]. **Measurement** [ALL<sup>+</sup>16, WGW08]. **Measuring** [DPMB16, STD<sup>+</sup>14]. **mechanics** [DFP96, GW11]. **Mechanism** [THS<sup>+</sup>15]. **mechanisms** [Ott93]. **medium** [JK10]. **Memorial** [Per08]. **Memory** [BMN<sup>+</sup>97, CHS<sup>+</sup>99, SO15, SZXL16, TKS02, Bai95, BPC<sup>+</sup>09, DBVF01, FSV14, GL04, GBH14, HMCH07, JKR92, JIC<sup>+</sup>14, KMR<sup>+</sup>97, KHSJ95, LR05, NAA<sup>+</sup>03, OB96, Per08, PBK01, RS95, RMX05, SHHI01, SZ09, Shu94, ZS99]. **Memory-Based** [SZXL16]. **Menhir** [CB99]. **mental** [ADS95]. **Mesh** [KK09, BAN02, CL04, CW93, MSLS13, KK09]. **mesh-based** [CL04]. **Meshes** [SO15]. **message** [PBK01]. **message-passing** [PBK01]. **messages** [RS95]. **MESSIAHS** [CS94]. **Messina** [Mic97]. **metadata** [MPP<sup>+</sup>04]. **metaprogramming** [BMY13]. **Method** [ÁRCPS15, Bor04, HY15, HHD<sup>+</sup>16, MM16, NM16, TC96, WB16, YDC<sup>+</sup>16, DN04, GG05, PBK01, TOF<sup>+</sup>14, Ano07b]. **methodologies** [Hav00a]. **methodology** [HCJ08]. **Methods** [CKKK15, GMCT15, Mor94, Vol97, BCC<sup>+</sup>93, RR07, STD<sup>+</sup>14]. **Metric** [LWYS16, XML<sup>+</sup>16]. **Metrics** [GMCT15, LLW<sup>+</sup>14, RX04]. **MHDFS** [SZXL16]. **MIC** [CCBPGA15]. **micro** [ADLN08]. **micro-** [ADLN08]. **MicroGrid** [SLJ<sup>+</sup>00]. **Microimmune** [YZ16]. **middleware** [COB<sup>+</sup>00, VCT05]. **migratable** [BŽvA<sup>+</sup>01]. **Migrating** [SCAP16]. **Migration** [CCBPGA15, GWZ16, LZF16, HZ99, KLN<sup>+</sup>04]. **millennium** [Met99a, Met99b]. **MIMD** [PBK01]. **mind** [FML<sup>+</sup>14]. **Minimum** [CBRRC<sup>+</sup>16]. **Mining** [AIS16, HB12, KS15, SLD<sup>+</sup>16, ZYLZ15, AMN<sup>+</sup>12, AHCZ12, PSU08, ZRP08]. **Mirroring** [SSM<sup>+</sup>02]. **Missing** [WCZ<sup>+</sup>16]. **mission** [Nor07]. **mission-enabling** [Nor07]. **mitigating** [OdSSP13]. **Mixed** [LG03, RR07, SB01]. **Mixed-language** [LG03]. **MM5** [Mic00]. **MMX<sup>TM</sup>** [BGH99]. **Mobile** [ATZ<sup>+</sup>15, MR02, CKS<sup>+</sup>09]. **mobility** [BDM<sup>+</sup>04]. **mode** [SB01]. **Model** [BD16, DDMS15, HPZ16, KS15, KPS16, SZC16, XTCC15, BHK<sup>+</sup>13, BH02, BDV03, CIN<sup>+</sup>96, DTV00, Hem00, HMCH07, KBR95, Mar05, PMM94, Ros00, SZ09, SS00, SDS00, SBM<sup>+</sup>10, Wan02, War96]. **Model-Based** [BD16]. **Model-Centered** [DDMS15]. **Modeling** [DDMS14, SW16, ADLN08, BDM<sup>+</sup>04, GRR<sup>+</sup>03, LDV07, SLJ<sup>+</sup>00]. **Modelling** [ACCTA<sup>+</sup>15, LPHD04]. **Models** [CCTY15, WS15, LB02, MSSG11, VRM02]. **Modern** [HMR<sup>+</sup>15, LNK<sup>+</sup>15, AJJF14, NDSDG07]. **Modulation** [VMRM16]. **module** [BCS01, Sch03a]. **modules** [HB12]. **molecular** [BCS01, BPK00, DFP96, GIKP95]. **Monitoring** [BBL08, Kuf15, BBF<sup>+</sup>04, KCO<sup>+</sup>05, TF04]. **Monocular** [LWYS16]. **MOPEX** [JEM07]. **mosaics** [JEM07]. **motivated** [LLW<sup>+</sup>14]. **MP** [CKS<sup>+</sup>09]. **MPDATA** [SRO<sup>+</sup>15]. **MPI** [Nag05b, GBH14, HZ99, HPS<sup>+</sup>13, JR10, KB01, RST02, SB01]. **MPI-3** [GBH14]. **MPI/OpenMP** [JR10, SB01]. **Multi** [CKKK15, GGMS99, PT09a, PT09b, XTCC15, CIN<sup>+</sup>96, DF14, JR10, PVL<sup>+</sup>04, Zhe10]. **Multi-** [CKKK15]. **multi-agent** [PVL<sup>+</sup>04]. **Multi-core** [PT09a, PT09b, JR10, Zhe10]. **Multi-GPU** [XTCC15]. **Multi-language** [GGMS99]. **multi-model** [CIN<sup>+</sup>96]. **multi-objective** [DF14]. **multiagent** [PCGLO14]. **Multibillion** [SO15]. **MultiCache** [NsP16]. **multicomputers** [JKR92]. **Multicore** [BD16, KGMN15, LNK<sup>+</sup>15, NJ08, SJ15, YTD15, BB09, HPD09, LKDB10, PCGLO14, SZ09, SJR14]. **multidimensional** [ESP<sup>+</sup>12, FO96]. **Multidisciplinary**

[CHM<sup>+</sup>97]. **multidisk** [GKL<sup>+</sup>96]. **multigrid** [GHST12]. **Multilayered** [NsP16]. **Multilevel** [MFB<sup>+</sup>15, JJY<sup>+</sup>03]. **multiphysics** [PPS12a, PPS<sup>+</sup>12b]. **Multiple** [CLA<sup>+</sup>15, Kuf15, MWQ16, Mor15, WS15, MGK<sup>+</sup>13]. **multiplication** [KHSJ95]. **multiplications** [BBDN11, GA96]. **Multiplicative** [WB16]. **multiprocessor** [CKS<sup>+</sup>09, GKL<sup>+</sup>96]. **MultiProcessors** [BDV03, LR05, RS95, AGIS94]. **Multiprogramming** [BHP<sup>+</sup>03]. **multiscale** [ADLN08]. **Multisupercomputer** [LZF16]. **Multitasking** [ATZ<sup>+</sup>15]. **Multithreaded** [SCD<sup>+</sup>15, HMC97]. **multithreading** [Sin99]. **MUST** [HPS<sup>+</sup>13]. **mutual** [Szy07].

**NaaS** [XST<sup>+</sup>16]. **naming** [Sch94]. **nanofluidic** [ADLN08]. **NAS** [SBM<sup>+</sup>10]. **Native** [BKLS01]. **navigation** [MJLM07]. **Navy** [Ros00]. **nearly** [CGL08]. **NEC** [DTV00]. **Nested** [BS01]. **Net** [HPZ16]. **Net/SLE** [WOC99]. **Netherlands** [MCvM10]. **Network** [DPMB16, GMCT15, HLPY16, KAS15, Kuf15, XST<sup>+</sup>16, ZCXQ16, ZWCY16, ASCH<sup>+</sup>07, BDG<sup>+</sup>94, CM02, CDD<sup>+</sup>05, CIN<sup>+</sup>96, DRT<sup>+</sup>14, DRL13, PSU08, WOC99]. **Networking** [GM14]. **Networks** [ÁRCPS15, CGC16, CSM15, GMCT15, SSN15, ZWW16, ADS95, BDM<sup>+</sup>04, DRL13]. **neural** [ADS95, CIN<sup>+</sup>96]. **neural-network** [CIN<sup>+</sup>96]. **neuronal** [PSU08]. **neutral** [SG96]. **next** [RN07]. **Nimrod** [PDA<sup>+</sup>08]. **Nimrod/E** [PDA<sup>+</sup>08]. **NINJA** [MMG<sup>+</sup>02]. **NoC** [MM16]. **Node** [XTCC15, BTS<sup>+</sup>14, JR10]. **non** [JIC<sup>+</sup>14, NAA<sup>+</sup>03]. **non-regular** [NAA<sup>+</sup>03]. **non-volatile** [JIC<sup>+</sup>14]. **nonaligned** [AGIS94]. **nonlinear** [BCHL05]. **normalized** [GG05]. **NoSQL** [CTC<sup>+</sup>15]. **Notation** [McC96]. **Novel** [FGROL<sup>+</sup>16, HPZ16, LWYS16, WWLG16]. **NUMA** [BCC<sup>+</sup>00, MJB15, TKS02]. **NUMA-based** [TKS02]. **Number** [GB94, NM16]. **Number-crunching** [GB94]. **numbers** [Che93a]. **numerical** [BC99, BAN02, DSZ96, DHH00, MMG<sup>+</sup>02, VF95, WCG95]. **numerics** [Bjø00]. **NumPy** [AJJF14]. **NVRAM** [ZLL<sup>+</sup>15].

**O** [OSLK12, NsP16]. **Object** [BCC<sup>+</sup>93, CW93, Gus93, HMSW92, MOT97, NCMF15, BGLR93, BBG<sup>+</sup>93, BKP99, FS01, HST<sup>+</sup>93, KZRR94, KK11, VF95, WGF93]. **object-based** [KK11]. **Object-Oriented** [HMSW92, NCMF15, BCC<sup>+</sup>93, CW93, Gus93, MOT97, BGLR93, BKP99, HST<sup>+</sup>93, KZRR94, VF95, WGF93]. **objective** [DF14]. **ObjectMath** [VF95]. **objects** [MR02]. **observations** [HLM<sup>+</sup>11]. **observed** [BH02]. **ocean** [HMCH07, Mal01]. **oct** [War14]. **oct-tree** [War14]. **Octagonal** [NM16]. **ODE** [RR04]. **Oligonucleotide** [KTP05]. **Oliveira** [Ano07c]. **OMPM2001** [AE03]. **on-chip** [JK10]. **on-line** [BBF<sup>+</sup>04, RLL<sup>+</sup>02, SCB02]. **On-the-Fly** [HJ15]. **One** [GBH14]. **Online** [LWYS16]. **onto** [DSS<sup>+</sup>05]. **OON** [VC93]. **OON-SKI** [VC93]. **open** [SGM<sup>+</sup>08, SGM<sup>+</sup>08]. **OpenACC** [CCBPGA15]. **OpenCL** [FSV14, LNK<sup>+</sup>15, THS<sup>+</sup>15]. **OpenMP** [ARvW03, BHP<sup>+</sup>03, BCC<sup>+</sup>00, BS01, BDV03, CCBPGA15, DBVF01, HJYC10, JJY<sup>+</sup>03, KB01, LOHA01, Mal01, Mar05, Mat03, MJB15, Mü103, NPP<sup>+</sup>00, PVKE01, PKE<sup>+</sup>10, SHHI01, SKS01, Wan02]. **Operating** [WSP94, ITF<sup>+</sup>08, KZRR94, SCSJ09, WMR<sup>+</sup>94]. **Operational** [Ros00]. **operators** [GRC03]. **Opinion** [KS15]. **Optimal** [ACLS16, LZF16, PPJ<sup>+</sup>15, ZWW16]. **optimisation** [WD07]. **Optimization** [CLTX16, FMA16, MFB<sup>+</sup>15, McC96, SW16, SZC16, SCAP16, WB16, YZ16, ZJZ<sup>+</sup>16, BBLR03, DHH00, DZKS13, GSM03, LBvBW12, SKS01, Sin99, WSB11, XNQF04]. **optimizations** [Ang93]. **Optimized** [CGC16, THS<sup>+</sup>15, ZLL<sup>+</sup>15]. **Optimizing**

[BMN<sup>+</sup>97, CSC16, SVR<sup>+</sup>07, YZZ15, Zhe10, BAP13, BHK<sup>+</sup>13, CKS<sup>+</sup>09, SO93]. **Opus** [CHM<sup>+</sup>97]. **order** [BH02]. **ordering** [BÇCD12]. **ordinary** [Gus93]. **Orientation** [SC16]. **Oriented** [DPMB16, HMSW92, NCMF15, BGLR93, BCC<sup>+</sup>93, BKP99, CW93, Gus93, HST<sup>+</sup>93, KZRR94, MOT97, VF95, WGF93]. **Otto** [Nag05b]. **Out-of-Core** [TC96, JIC<sup>+</sup>14]. **Outlier** [XML<sup>+</sup>16]. **overcome** [BFH96]. **Overlapping** [KB01, KCS15, PKE<sup>+</sup>10]. **Overview** [AJ94, HW12].

**P** [FP00a, OPE<sup>+</sup>95]. **P2P** [ASCH<sup>+</sup>07]. **P4** [Lar93]. **Package** [SSM<sup>+</sup>02]. **packaging** [CL04]. **PADDA** [Ger02]. **Pair** [YG16]. **Papers** [Old00, VR13, Ano97b]. **Parallel** [CBCM93, CLA<sup>+</sup>15, CLTX16, CR05, DDMS15, FP95, FOT92, GIKP95, GG05, GBK<sup>+</sup>96, JFPL16, LPHD04, Nag04, O’K00, Ott93, PAR94, PVKE01, SZAG15, SO11, SJ15, SE95, SO15, SCAP16, TLC15, WGF93, YDC<sup>+</sup>16, ARvW03, ARFS05, AJ94, ADS95, AGIS94, BCC<sup>+</sup>93, BBK<sup>+</sup>11, BBG<sup>+</sup>93, BB09, BÇCD12, BFH96, CLM05, CM02, CvHK97, DBVF01, DRR12, EAS<sup>+</sup>97, FP00a, FB99, GG95, GL04, GRN99, GRR<sup>+</sup>03, GA96, HMC97, Hav00b, HZ99, HB94, HJ96, KMR<sup>+</sup>97, KZRR94, KLS<sup>+</sup>96, Lar93, LH93, Lin04, Mar05, Mic00, MSLS13, OPE<sup>+</sup>95, OdSSP13, OSS94, PVL<sup>+</sup>04, PMCF94, RR07, RKR<sup>+</sup>99, RS94, SCSJ09, SS00, SDS00, Sch94, SJR14, SGM<sup>+</sup>08, SBM<sup>+</sup>10, Shu94, SCB02, SBJV11, VGC09, WCKD07, War96, War14, WMR<sup>+</sup>94, WB95, WCG95, WSP94, WGW08, ZS99, JEM07, PDGQ05]. **parallel/distributed** [FB99]. **parallelisation** [LJL<sup>+</sup>01]. **parallelism** [BS01, HPD09, JK10, KB96, RRV09]. **Parallelization** [JR10, KBR95, Vol97, BCS01, JJY<sup>+</sup>03, Kes96, LP99, MSH99]. **Parallelize** [RRM<sup>+</sup>15]. **Parallelizing** [KCS15, OB96]. **Parameter** [COB<sup>+</sup>00, CLTX16, PDA<sup>+</sup>08, TOF<sup>+</sup>14].

**Parkbench** [HB94]. **PARMACS** [HZ99]. **Part** [SCAP16, ZGS16, HR12a, HR12b, PPS12a, PPS<sup>+</sup>12b]. **Parthenogenetic** [SLBZ16]. **partial** [PPS<sup>+</sup>12b]. **particle** [CBCM93]. **Partitioning** [BÇCD12, MOS16, CP95, LR05]. **Partnership** [KJG<sup>+</sup>08]. **passing** [PBK01]. **Path** [LZF16, NM16]. **Pattern** [GRC03, Kes96, DRT<sup>+</sup>14]. **Pattern-driven** [Kes96]. **Patterns** [HMR<sup>+</sup>15, CFR14, ESSL99, GSM03, ZS99]. **Paul** [Hil97, Mic97]. **pC** [BBG<sup>+</sup>93]. **PCN** [FOT92]. **PDDP** [War96]. **PDE** [KK09, LBvBW12, SF03b, SF03a]. **PDE-constrained** [LBvBW12]. **PDEs** [BEK<sup>+</sup>12]. **PDS** [BDLL94]. **peak** [SH94]. **peer** [XNQF04]. **peer-to-peer** [XNQF04]. **Pegasus** [DSS<sup>+</sup>05]. **2008** [Mor15]. **6000** [Was95]. **860** [CBCM93]. **B.E.** [VvAC<sup>+</sup>09]. **distributed** [FB99]. **GPU** [CFR14]. **journal** [Ano93]. **multigrid** [AGIS94]. **OpenMP** [JR10, SB01]. **SLE** [WOC99]. **Software** [MOS16]. **penultimate** [Met99a, Met99b]. **PerfExplorer** [HMSM08]. **Performance** [ACIK97, Ano93, Ano99b, ACCTA<sup>+</sup>15, AGG<sup>+</sup>97, BMN<sup>+</sup>97, CCBPGA15, DS97, DTV00, GB15, GM14, GGP09, GBK<sup>+</sup>96, HMR<sup>+</sup>15, HP02, JMR<sup>+</sup>11, KMR<sup>+</sup>97, KOM94, KZRR94, KGV97, LNK<sup>+</sup>15, MJLM07, MSSG11, MH95, Nag05a, SCD<sup>+</sup>15, SSC97, WGW08, Ano08b, AB96, AE03, BBF<sup>+</sup>04, BDLL94, BTS<sup>+</sup>14, BDV03, CLM05, CMM<sup>+</sup>02, CB99, CKS<sup>+</sup>09, ESP<sup>+</sup>12, FP00a, FSV14, FP00b, GGMS99, GRR<sup>+</sup>03, HCJ08, HLM<sup>+</sup>11, HKL<sup>+</sup>12, HMSM08, IR02, KMB09, Lan03, LDV07, LG03, MMG<sup>+</sup>02, NJ08, Nor07, SS00, SH94, SGM<sup>+</sup>08, SBM<sup>+</sup>10, SE95, TOF<sup>+</sup>14, TF04, WHRH07, WSZK09]. **performance-portability** [ESP<sup>+</sup>12]. **performance-prediction** [BDV03]. **performing** [PMTL12]. **permutations** [BSF96]. **persistence** [CDD<sup>+</sup>05]. **Perspective** [DPMB16]. **peta** [Zim07].

**peta-scale** [Zim07]. **petaflops** [Mic97]. **PetaShare** [KABW11]. **Petri** [HPZ16]. **Pfortran** [BCS01]. **PGHPF** [BMN+97]. **Phase** [ACLS16, TC96, VMRM16]. **Phi** [ACCTA+15, DGH+15, SCD+15, SRO+15, TSP+15]. **physically** [LLW+14]. **physics** [BHK+13, RX04]. **PIC** [BDV03]. **Pictorial** [Bry96]. **Pipeline** [DDMS15]. **Pipelining** [ATZ+15]. **place** [FO96]. **Placement** [ACLS16, CGC16, ZHL16]. **Placements** [Wu16]. **plasma** [LG03]. **Platform** [GWZ16, XST+16, CGK+05, PCGLO14]. **platforms** [CFR14]. **Playa** [HKL+12]. **plume** [WCKD07]. **point** [KMB09]. **pointer** [HS03]. **pointer-linked** [HS03]. **Policy** [JFPL16, SZ04]. **Polish** [ZG15]. **polymorphism** [DN04]. **Polyshift** [GBJ94]. **Port** [DGH+15]. **portability** [ESP+12]. **Portable** [BŽvA+01, GL04, KMR+97]. **Portal** [KBG+02]. **Porting** [HHML05]. **Potential** [SLBZ16]. **Power** [KGBB09]. **ppOpen** [TOF+14]. **ppOpen-AT** [TOF+14]. **Practical** [KOM94, FML+14]. **Precise** [HBCM94, Mor94]. **precision** [Sch03a]. **preconditioned** [GG05]. **preconditioners** [JHNP14, MOT97]. **preconditioning** [GHST12]. **Prediction** [GMCT15, Ros00, SSN15, AMN+12, BDV03, FP95]. **predictive** [GRN99]. **predictive-adaptive** [GRN99]. **Preface** [Ano04b]. **Prefiltering** [GB15]. **preliminary** [BKP99]. **Pressure** [CKKK15]. **Pricing** [ZGS16, BTS+14]. **primordial** [BAN02]. **Problem** [CBRRC+16, GWZ16, GB94, Lan01, VRW+03, WGF93]. **Problems** [BD16, FMA16, SW16, SCAP16, GHW00, JHNP14, SDS00, VHBR93]. **Process** [MOS16, BH02, Shu94]. **processes** [CR05]. **processing** [BB09, Den96, FP95, TFN11, VF95]. **processor** [GHH+02, HMCH07, KGBB09, Sin99]. **Processors** [ATZ+15, MJB15, YZZ15, ARFS05, Ano08b, KMR+97, OPE+95, PTS+13, PRM+14, PCGLO14, Nag04]. **Produced** [CBRRC+16]. **product** [GA96, KHSJ95]. **Production** [ZGS16]. **Productive** [FOT92]. **productivity** [Zim07]. **Professional** [ÁRCPS15]. **Profile** [SC16]. **profiling** [BB08, CKS+09]. **program** [CMM+02, HST+93, RR04]. **programmable** [HKL+12]. **programmer** [OB96]. **Programming** [CCTY15, CMZ92, DS97, DDMS15, DGH+15, FOT92, GBK+96, KGBB09, KK11, LGC+16, Nag04, PT09a, PT09b, SW16, SZC16, SRTCL16, WB16, XTCC15, YZ16, BH12, BBK+11, BB09, BFH96, CLM05, Che93a, Che93b, CvHK97, DHH00, EAS+97, GL04, GBH14, GGMS99, GHW00, HMC97, Hav00b, Lar93, Mat94, NDSG07, PVKE01, PMM94, PPS12a, SBM+10, Slo12, Sny07, Szy07, VCT05, Wan02, War96, Hil97]. **Programs** [BCC+92, MJB15, Den96, DF14, FP00a, GG95, GRR+03, LDV07, LP99, OPE+95, OdSSP13, RS94, SKS01, TKS02, Zhe10]. **project** [HW12, HR12a, HR12b]. **properties** [Din99]. **propulsion** [WCKD07]. **Protein** [CLA+15, KG08, WSZK09]. **protocol** [MPP+04]. **prototyping** [DSZ96]. **provisioning** [JDVM10, OPP11, Slo12]. **PSEs** [HP02]. **psychological** [VRM02]. **Public** [PAR94, HB94, RST02]. **PUMA** [WMR+94]. **purpose** [Mat94]. **Python** [CLM05, DDMS14, Spo12]. **PyTrilinos** [Spo12]. **QCD** [IB09]. **QoS** [HLPY16, MAG+07, Slo12]. **QR** [CDO+96, KD09]. **Quality** [ÁRCPS15, KFFZ05, PMCF94]. **quality-cost** [PMCF94]. **quantification** [GW11]. **Quantitative** [AE03]. **quantum** [RX04, KJG+08]. **Quasi** [PPJ+15]. **Quasi-Optimal** [PPJ+15]. **Questions** [SHM97, SN02]. **queueing** [DDMS14].

**R** [KCO<sup>+</sup>05]. **R-GMA** [KCO<sup>+</sup>05]. **Race** [HJ15]. **Racing** [YZ16]. **radar** [PTS<sup>+</sup>13]. **Randomization** [ZWZ16]. **Rank** [YTD15]. **Ranking** [NM16]. **Ratio** [VMRM16]. **ray** [BCHL05]. **ready** [TSCT11]. **Real** [BD16, PDROFRM16, Bry96, JR10, MAG<sup>+</sup>07, SH94]. **Real-Time** [BD16, MAG<sup>+</sup>07]. **receptors** [GGJ04]. **Recommendation** [CSM15, SLD<sup>+</sup>16]. **recommendations** [AB96]. **reconfigurable** [KMB09]. **Recursive** [DEL01]. **Reduction** [KS15, SZAG15, ZHL16, KHSJ95]. **Reference** [Nag05b]. **refinement** [BAN02, CW93]. **Regional** [ZJZ<sup>+</sup>16]. **regions** [MGK<sup>+</sup>13]. **Regular** [Ano08c, NAA<sup>+</sup>03]. **regulations** [ZGW08]. **reinforcement** [PVL<sup>+</sup>04]. **Relational** [KCO<sup>+</sup>05]. **Reliability** [TT16]. **Reliability-Aware** [TT16]. **reliable** [DRL13, KABW11]. **Remanufacturing** [ZGS16]. **Remote** [CTCG15, GL04, GBH14]. **reordering** [ZSS<sup>+</sup>10]. **Replicas** [Wu16]. **Report** [PAR94, HB94]. **Repositories** [SLD<sup>+</sup>16]. **representation** [Tým99]. **Reproducibility** [SPPH15]. **Requirements** [AKA16, SDS00]. **rescheduling** [KLN<sup>+</sup>04, SZ04]. **Research** [HHD<sup>+</sup>16, LZF16, ZYLZ15, AGG<sup>+</sup>97, NKV<sup>+</sup>02]. **Reshaping** [TFN11]. **resolution** [BAN02, VvAC<sup>+</sup>09]. **resolving** [BAN02]. **Resource** [ACB<sup>+</sup>02, GWZ16, HPZ16, MPA16, Özt04, CJS<sup>+</sup>02, JDVM10, KLN<sup>+</sup>04, OPP11]. **Resources** [HLPY16, KVW<sup>+</sup>07]. **Restart** [CSC16]. **Restoration** [ZWCY16]. **results** [BHK<sup>+</sup>13]. **reusing** [NAA<sup>+</sup>03]. **Reverse** [HHD<sup>+</sup>16]. **reversing** [HUN08]. **Review** [Ano07a, Ano07b, Ano07c, Ano11b, Bai08, Bor04, Bro11a, Bro11b, Bro12, Bro09, Bus09, Fil14, GB10, Hil97, Les10, Man08, Mic97, Nag04, Nag05a, Nag05b, Nag09a, Nag09b, Nag11a, Nag11b, Nag12, Ste97, Wes08]. **Reviewers** [Ano03, PT09b]. **RISC** [Hil97, Was95]. **Risk** [YG16, MCvM10].

**Robert** [Per08]. **Robust** [ZJZ<sup>+</sup>16, CM02]. **Robustness** [ZWW16]. **Rough** [PDROFRM16]. **Router** [GWZ16]. **routines** [CDO<sup>+</sup>96]. **rover** [MJLM07]. **Rubin** [Hil97]. **Rules** [ZYLZ15]. **Run** [EAS<sup>+</sup>97, DN04, IRSD99, MSH99]. **Run-time** [EAS<sup>+</sup>97, DN04, IRSD99, MSH99]. **Runtime** [Ano99b, HPS<sup>+</sup>13, NPP<sup>+</sup>00, Pro07].

**S** [Ano07a]. **same** [Mic00]. **same-source** [Mic00]. **Sampling** [YZ16]. **SAMR** [LTB02]. **Satisfaction** [SW16, AMM05]. **satisfaction-based** [AMM05]. **Sawzall** [PDGQ05]. **SC13** [GM14]. **SC2000** [Old00]. **Scala** [PSM<sup>+</sup>15]. **Scalability** [SBJV11]. **Scalable** [BPK00, HPZ16, JHNP14, KCS15, NKV<sup>+</sup>02, OHS00, CM02, DRR12, GBH14, IMB<sup>+</sup>13, OS99, Ros00, Rou08a]. **ScalaLab** [PMTL12, PMTL14, PSM<sup>+</sup>15]. **ScaLAPACK** [CDO<sup>+</sup>96]. **Scale** [SZAG15, ZWW16, MJLM07, MSCS14, WGW08, Zim07]. **Scale-Free** [ZWW16]. **SCALEA** [TF04]. **SCALEA-G** [TF04]. **Scaling** [NAA<sup>+</sup>03, MGK<sup>+</sup>13, SCSJ09]. **scanning** [WSZK09]. **SCASH** [SHHI01]. **scattering** [HST<sup>+</sup>93]. **Scenarios** [PDROFRM16]. **schedules** [NAA<sup>+</sup>03]. **Scheduling** [CS94, HPZ16, KGMN15, LWW16, LKDB10, MFB<sup>+</sup>15, MJB15, OCC<sup>+</sup>16, TT16, WWLG16, ZWZ16, DRR12, FB99, GR93, KLN<sup>+</sup>04, SJR14, Shu94, SCB02, WD07, ARFS05, BPC<sup>+</sup>09]. **schema** [VRW<sup>+</sup>03]. **Scheme** [ATZ<sup>+</sup>15, DPMB16, SJR14]. **schemes** [SF03b, SF03a]. **Science** [BR11, HMSW92, KJG<sup>+</sup>08, KBG<sup>+</sup>02, DRT<sup>+</sup>14, Ste97, TSCT11, DRT<sup>+</sup>14]. **Science-Driven** [BR11]. **Scientific** [Ano07c, Che93b, DS97, DDMS15, GHH<sup>+</sup>02, MFB<sup>+</sup>15, Nag05b, PSM<sup>+</sup>15, PT09a, PT09b, SPPH15, Sny07, SRTCL16, AJ94, ANEA08, BH12, BBL08, BGLR93, BÇCD12, CLM05,

CHS<sup>+</sup>99, DSS<sup>+</sup>05, DDMS14, GG95, Gil09, Hav00a, HHML05, IJL<sup>+</sup>01, JDVM10, KJG<sup>+</sup>08, Mat94, NJ08, NDSG07, OSS94, PMTL12, PMTL14, Rou08b, SKU<sup>+</sup>09, SLJ<sup>+</sup>00, SBJV11, Szy07, VF95]. **Scientist** [Hi197]. **script** [BBBM12]. **scripting** [PMTL14]. **SDN** [ZWCY16]. **SDN-Based** [ZWCY16]. **Search** [LGC<sup>+</sup>16, BAP13]. **Searching** [WS15, GA96]. **Secondary** [CTC<sup>+</sup>15]. **Section** [Ano08c]. **Sections** [TC96]. **Security** [AIS16, CQF05]. **Seed** [CLA<sup>+</sup>15]. **Seed-Based** [CLA<sup>+</sup>15]. **SEER** [AMN<sup>+</sup>12]. **segmentation** [RLC04]. **segments** [Abd02]. **SEI** [Ano07a]. **Selected** [VR13]. **Selection** [CLTX16, AMM05, WHRH07]. **semantic** [MPP<sup>+</sup>04, BB08, GB15]. **Semi** [KG08, IJL<sup>+</sup>01]. **semi-automatic** [IJL<sup>+</sup>01]. **Semi-supervised** [KG08]. **Semiseparable** [YTD15]. **Sensitivity** [CO93]. **Sensor** [WS15, YZZ15]. **Sensor-Based** [YZZ15]. **sequence** [KG08, WSZK09]. **sequences** [KTP05, LSB12]. **sequencing** [HB12]. **serial** [CLM05]. **Series** [Ano07a, Nag05b, BCHL05]. **server** [BDLL94, GKL<sup>+</sup>96]. **servers** [CDD<sup>+</sup>05]. **Service** [CMTAC<sup>+</sup>16, GB15, KFFZ05, MPP<sup>+</sup>04, PHH95, WHRH07]. **services** [AMM05, TSCT11]. **Set** [PDROFRM16, YG16]. **Sets** [Wu16]. **shallow** [KBRS95]. **shallow-water** [KBRS95]. **shared** [DBVF01, HMCH07, NAA<sup>+</sup>03, OB96, PBK01, SHHI01, TKS02, ZS99]. **shared-memory** [NAA<sup>+</sup>03, ZS99]. **sharing** [BTS<sup>+</sup>14, Ott93]. **sided** [LKDB10, GBH14]. **Sieve** [KK09]. **signal** [Den96]. **signals** [ADS95]. **Signed** [SSN15]. **SIMD** [TSP<sup>+</sup>15]. **SIMDization** [IB09]. **Similarities** [CLA<sup>+</sup>15]. **simplified** [DN04]. **simulating** [BDM<sup>+</sup>04]. **Simulation** [CCBPGA15, O'K00, WB95, BBLR03, GIKP95, GGJ04, MJLM07, NKV<sup>+</sup>02, OPP11, PPS12a, PPS<sup>+</sup>12b, SE95, War14].

**Simulations** [SCD<sup>+</sup>15, YDC<sup>+</sup>16, KLS<sup>+</sup>96, LLW<sup>+</sup>14, LG03, MGK<sup>+</sup>13, RX04, WCKD07]. **Single** [AIS16, VMRM16, XTCC15, AGIS94, DF14]. **single-** [DF14]. **Single-Phase-to-Three-Phase** [VMRM16]. **single/multigrid** [AGIS94]. **Singularities** [PPJ<sup>+</sup>15]. **Sink** [WCZ<sup>+</sup>16]. **sites** [IR02]. **SKaMPI** [RST02]. **SKI** [VC93]. **Skillrank** [ÁRCPS15]. **Skills** [ÁRCPS15]. **sky** [VvAC<sup>+</sup>09]. **SKYHI** [Hem00]. **SLA** [ZHL16]. **SLAM** [LWYS16]. **Sloan** [Nag05a]. **Slogger** [BB08]. **Slope** [SC16]. **SLPA** [KCS15]. **Smith** [Mic97]. **SMP** [CCBPGA15]. **Snir** [Nag05b]. **Social** [ÁRCPS15, CSM15, DPMB16, GMCT15, KAS15, SSN15]. **sockets** [BŽvA<sup>+</sup>01]. **Soft** [WS15]. **Soft-Sensor** [WS15]. **Software** [AKA16, Ano07a, Ano07c, AB96, CHC15, GBJ94, OS99, O'K00, PT09a, PT09b, SLD<sup>+</sup>16, Wes08, ANEA08, BFH96, DHH00, GB94, Gus93, Hav00a, KJG<sup>+</sup>08, LBvBW12, MS00, MOT97, PMTL12, PPS12a, PPS<sup>+</sup>12b, RX04, Rou08b, SHHI01, WSB11]. **solution** [HMCH07, SG96]. **solutions** [AGIS94]. **Solver** [CKKK15, DEvdV01, JR10, MSSG11, SCSJ09, SF03b, SF03a]. **solvers** [BHRT12, RR04]. **Solving** [BEK<sup>+</sup>12, SW16, SCAP16, WB16, YTD15, YZ16, Gus93, Lan01, MRLF12, VRW<sup>+</sup>03]. **Some** [McC96, Lar93]. **Sorting** [SCAP16]. **Source** [ZGS16, Mic00, SGM<sup>+</sup>08]. **Space** [DPMB16, SV15, XML<sup>+</sup>16, CBCM93, Nor07]. **Spam** [FGROL<sup>+</sup>16]. **Spanning** [CBRRRC<sup>+</sup>16]. **Spare** [ZGS16]. **Spare-Part** [ZGS16]. **Sparse** [DEL01, BHRT12, CFR14, LP99, Lin04, SG96]. **sparse-matrix** [CFR14]. **SPEC** [AE03]. **Special** [BFGH14, BR11, GM14, HR12a, HR12b, JK10, PT09a, PT09b, SO11, VR13]. **specialization** [BMY13]. **Specific** [JBLB15, Ang93, SO93, ZGW08]. **Specification** [Hig93, Pro07, CMM<sup>+</sup>02]. **spectral** [Ros00]. **speech** [Abd02].



**SpeedShop** [SGM<sup>+</sup>08]. **spike** [PSU08, MSSG11]. **spine** [KLS<sup>+</sup>96]. **SPINET** [KLS<sup>+</sup>96]. **Spitzer** [JEM07]. **spline** [TOF<sup>+</sup>14]. **square** [GG05]. **Stability** [SC16]. **stack** [Tým99]. **stack-based** [Tým99]. **standard** [FP00b, Met99a, Met99b, RN07]. **star** [BAN02]. **State** [BDH<sup>+</sup>10, ADS95]. **State-of-the-art** [BDH<sup>+</sup>10]. **Static** [Den96, GG95, ACIK97]. **Statistical** [KTP05, Din99, OHS00]. **Stencil** [CKKK15, SRO<sup>+</sup>15]. **Sterling** [Mic97]. **Steve** [Nag05b, Bry96]. **Steven** [Nag05b]. **Stewart** [Ano07c]. **Stochastic** [HPZ16, HXX16, ZWZ16]. **Storage** [GM14, Slo12, SZXL16, DZKS13, KABW11]. **Strassen** [KHSJ95]. **Strategies** [OCC<sup>+</sup>16, DBVF01, FC01, PCS99, Sch94]. **Strategy** [GB15, RRM<sup>+</sup>15, WS15, Wu16, MGK<sup>+</sup>13]. **streams** [Pla04]. **Strength** [Nag04]. **strides** [Bai95]. **String** [TLC15]. **Strong** [SCSJ09, ZCXQ16]. **structural** [LB02]. **Structure** [CLA<sup>+</sup>15, SG96]. **Structured** [BFH96]. **structures** [HS03, KGV97]. **studies** [ZS99]. **Study** [ACCTA<sup>+</sup>15, DS97, HBCM94, McC96, RRM<sup>+</sup>15, AJJF14, BKP99, GW11, GB94, Hav00a, MS00, OB96, SBM<sup>+</sup>10]. **style** [DHH00, Ano07c]. **Subgraph** [SJ15]. **submesh** [Mor94]. **Suely** [Ano07c]. **Sundance** [LBvBW12]. **Super** [VR13]. **Supercomputer** [GBK<sup>+</sup>96, SH94]. **supercomputers** [Hil97]. **Supercomputing** [BCCP05]. **Supernova** [JMR<sup>+</sup>11]. **Supersonic** [CCBPGA15]. **supervised** [KG08]. **Supply** [ZJZ<sup>+</sup>16]. **Support** [CS94, CLTX16, OSLK12, XTCC15, BCC<sup>+</sup>93, CHS<sup>+</sup>99, EAS<sup>+</sup>97, HCJ08, HMSM08, Pro07, RKR<sup>+</sup>99, WSB11, WSP94]. **supported** [CMM<sup>+</sup>02]. **Supporting** [ZA10, BBLR03]. **survey** [AB96, BCK07]. **surveys** [JEM07]. **survival** [AMN<sup>+</sup>12]. **Sweep** [COB<sup>+</sup>00, PDA<sup>+</sup>08]. **Switching** [WS15]. **SX** [DTV00]. **SX-4M** [DTV00]. **symbolic** [SF03b, SF03a, VF95]. **Symmetric** [BDV03]. **Symposium** [SO11]. **Synchronization** [MM16]. **synthetic** [PTS<sup>+</sup>13]. **System** [AIS16, FMA16, SZC16, Was95, YTD15, YZZ15, ZGS16, BB08, CO93, CJS<sup>+</sup>02, CHS<sup>+</sup>99, FP95, IMB<sup>+</sup>13, KMR<sup>+</sup>97, KZRR94, KABW11, KLN<sup>+</sup>04, Lar93, MSSG11, MAG<sup>+</sup>07, SCSJ09, SHHI01, TF04, WMR<sup>+</sup>94, WSP94, XNQF04, Ros00]. **System/6000** [Was95]. **Systems** [BD16, GBJ94, HXX16, Kuf15, MPA16, MJB15, PT09a, PT09b, TT16, YZZ15, ADLN08, Bai95, BHRT12, BTS<sup>+</sup>14, BPK00, DSS<sup>+</sup>05, DBVF01, DZKS13, DDMS14, LTB02, OS99, PVL<sup>+</sup>04, SZ04, Sch94, STD<sup>+</sup>14, SG96, WMR<sup>+</sup>94, WGW08, Zhe10]. **systolic** [CIN<sup>+</sup>96]. **T** [FP00a]. **table** [WSB11]. **TACO** [SJR14]. **Task** [CLYL16, LWW16, MJB15, WWLG16, OdSSP13, RR07, RKR<sup>+</sup>99, RRV09]. **task-level** [RRV09]. **tasks** [BS01, DRR12, PKE<sup>+</sup>10]. **Teaching** [DDMS15]. **Teams** [Ano07a]. **Technique** [HJ15, MOS16, VMRM16]. **Techniques** [AIS16, Abd02, BMY13, BPC<sup>+</sup>09, KJG<sup>+</sup>08, MS00, SKS01]. **technologies** [BB08, Mic97, vDKH01]. **technology** [BGH99, OSS94, VCT05]. **Template** [BMY13, COB<sup>+</sup>00, PPS12a, CP03]. **Template-based** [PPS12a]. **Templates** [MWQ16]. **temporal** [PSU08]. **ten** [SN02]. **Tensor** [KHSJ95, Lan03]. **TeraGyroid** [BCCP05]. **test** [CIN<sup>+</sup>96]. **tests** [Was95]. **text** [TFN11]. **Their** [GMCT15]. **them** [TSCT11]. **theoretical** [SH94]. **Theory** [PDROFRM16]. **Things** [WCZ<sup>+</sup>16]. **Thomas** [Mic97]. **thread** [HPD09]. **threads** [BS01]. **Three** [VMRM16, KBR95, Mar05]. **three-dimensional** [KBR95]. **tile** [LKDB10]. **Time** [BD16, HXX16, SLBZ16, BCHL05, CGL08,

DN04, EAS<sup>+97</sup>, IRSD99, MAG<sup>+07</sup>, MSH99, OdSSP13, ZGW08, ZA10, ARFS05].

**time-course** [ZGW08]. **time-critical** [ZA10]. **time-series** [BCHL05]. **tolerance** [ZA10]. **Tolerant** [HXX16]. **tomography** [DRL13, SCB02]. **Tool** [WSB11, AGG<sup>+97</sup>, BKK<sup>+11</sup>, CKS<sup>+09</sup>, GRR<sup>+03</sup>, SLJ<sup>+00</sup>]. **Toolkit** [YZZ15, IJL<sup>+01</sup>]. **toolkits** [BÇCD12]. **Tools** [KJG<sup>+08</sup>, STD<sup>+14</sup>, AB96, Met99a, Met99b, MOT97, RLL<sup>+02</sup>]. **top** [SN02]. **Topic** [DPMB16]. **Tpetra** [BH12]. **trace** [CGL08]. **tracking** [CBCM93]. **tradeoff** [PMCF94]. **tradeoffs** [AJJF14]. **Traffic** [CGC16, BDM<sup>+04</sup>]. **Traffic-Aware** [CGC16]. **Transfers** [THS<sup>+15</sup>]. **transformation** [Lin04]. **transformations** [LKDB10, RR04]. **Transient** [Tým99]. **transition** [BBLR03, FP95, NDSG07]. **translation** [ARFS05, AJJF14, OPE<sup>+95</sup>]. **translator** [OPE<sup>+95</sup>]. **transparent** [KABW11, NPP<sup>+00</sup>]. **Transport** [ZWCY16]. **Tree** [CBRR<sup>+16</sup>, War14]. **Trees** [PPJ<sup>+15</sup>]. **Triggered** [HXX16].

**Trilinos** [HW12, HR12a, HR12b, OSLK12, Spo12]. **Trios** [OSLK12]. **true** [FO96]. **Trust** [DPMB16]. **Trusted** [HHD<sup>+16</sup>]. **TSP** [Ano07a]. **tuning** [BFGH14, CMM<sup>+02</sup>, DF14, FML<sup>+14</sup>, HCJ08, MSCS14, STD<sup>+14</sup>, SCB02]. **turbulence** [RX04]. **tutorials** [Met99a, Met99b]. **Two** [ACLS16, TC96, KMB09, Kok07, LKDB10, OB96]. **two-dimensional** [Kok07]. **Two-Phase** [ACLS16, TC96]. **two-point** [KMB09]. **two-sided** [LKDB10]. **type** [RMX05, Rou08b].

**U** [WOC99]. **U-Net** [WOC99]. **U-Net/SLE** [WOC99]. **ubiquitous** [ASCH<sup>+07</sup>, ACB<sup>+02</sup>]. **UML** [NCMF15]. **Uncertain** [YG16]. **Uncertainties** [ZJZ<sup>+16</sup>]. **Uncertainty** [SZC16, GW11]. **Understanding** [Ano07b]. **Unfavorable** [Bai95]. **UNICORE** [Rom02]. **unified** [SZ09, TF04]. **units** [BB09]. **Unix** [Hil97]. **Unstructured** [SO15, SCSJ09]. **UPC** [Mar05, Zhe10]. **Update** [FO96]. **Update-in-place** [FO96]. **Use** [GW11, BH12, HS03, MPP<sup>+04</sup>]. **User** [COB<sup>+00</sup>, DPMB16, XST<sup>+16</sup>, Hav00b, Hem00, WOC99]. **user-customizable** [WOC99]. **User-Customized** [XST<sup>+16</sup>]. **user-friendly** [Hem00]. **user-implemented** [Hav00b]. **User-level** [COB<sup>+00</sup>]. **Users** [ZG15]. **Using** [BD16, CTCG15, CS94, CSM15, CKKK15, CCBPGA15, DS97, HJ15, JBLB15, MWQ16, OPP11, RRM<sup>+15</sup>, Sch94, SCD<sup>+15</sup>, SJ15, SZC16, XTCC15, AMN<sup>+12</sup>, ADS95, AGIS94, BAN02, CO93, DRL13, FSV14, HMCH07, IJL<sup>+01</sup>, IMB<sup>+13</sup>, JKR92, JJY<sup>+03</sup>, JR10, JDVM10, KK11, LSB12, LLW<sup>+14</sup>, LKDB10, MJLM07, PDA<sup>+08</sup>, PKE<sup>+10</sup>, SBM<sup>+10</sup>, VvAC<sup>+09</sup>, WHRH07, WCKD07, WC96]. **utilized** [KJG<sup>+08</sup>].

**Validation** [BDV03]. **Value** [YZ16]. **Variable** [Sch03a, Tým99]. **Variance** [HY15, HB12]. **Vector** [BCHL05, CLTX16]. **Vectorization** [TSP<sup>+15</sup>]. **Vectorized** [Kok07]. **vectors** [Hil97]. **Verification** [HHD<sup>+16</sup>]. **version** [Ros00, Met99a, Met99b]. **versus** [OB96]. **VFC** [Ben99]. **Video** [ATZ<sup>+15</sup>]. **Vienna** [Ben99, CMZ92]. **View** [Wu16, GKL<sup>+96</sup>]. **Violation** [ZHL16]. **Virtual** [CGC16, GWZ16, KFFZ05, LWW16, XST<sup>+16</sup>, ZHL16, ABB<sup>+02</sup>, Bry96, WOC99, AGIS94]. **Virtualization** [NsP16]. **Virtualized** [HLPY16]. **virus** [LSB12]. **Visualization** [KGV97]. **VLAM** [ABB<sup>+02</sup>, KVW<sup>+07</sup>]. **VLAM-G** [ABB<sup>+02</sup>, KVW<sup>+07</sup>]. **VLIW** [YZZ15]. **VM** [JFPL16]. **VoIP** [CMTAC<sup>+16</sup>]. **Vol** [Nag05b]. **volatile** [JIC<sup>+14</sup>]. **Volume** [Ano99a, Ano00, Ano08a, Ano09, Ano11a, Ano12, Ano14, Ano97a]. **volumes** [Ano03]. **VPP700** [DTV00]. **VR**

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**XCAT** [KBG<sup>+</sup>02]. **XCell** [KGBB09]. **Xeon** [SCD<sup>+</sup>15, SRO<sup>+</sup>15, TSP<sup>+</sup>15, ACCTA<sup>+</sup>15, DGH<sup>+</sup>15]. **Xeon-Phi** [ACCTA<sup>+</sup>15]. **xHPF** [DS97]. **XMatch** [AMM05].

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[Abd02]

[ACB<sup>+</sup>02]

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