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## Title word cross-reference

[XUZ02, ZN13].  $p_5$  [NP04].  $Q_{n,k,m}$   
[CS13, LZG<sup>+</sup>19].  $t$  [IR16].  $X + Y$  [AG98].  $Z$   
[QRR97].

$(n, k)$  [CL13, MMCW18]. 0 [GAL96b]. 1  
[APY06, GAL96b, MG09, RS98b]. 2  
[CFG94, DFRC01, MCDB12, MCCW15,  
Pan97, PND02, RS98b, ST97]. 3  
[Kru98, WGM<sup>+</sup>10, YKLD14]. **\$5** [SCF01]. 5  
[QY20]. 6 [HY18]. <sup>1</sup> [Sar92]. <sup>2</sup>  
[GM92, TKE<sup>+</sup>08, Ram94].  $\bar{p}_5$  [NP04].  $\mathcal{PLS}$   
[DM12].  $d$  [Bar93, HS96, Pel93].  $\diamond P$  [KW19].  
 $\diamond \mathcal{P}_{\text{mute}}$  [FMR05].  $e$  [HK95b].  $\ell$  [Wu95a].  $g$   
[LYW20, LZC<sup>+</sup>21].  $K$   
[Ste12, ACM19b, AS97, GGHJ04, Gal96a,  
KSOK07, NM96, San03, VP99].  $L$  [Vid06].  
 $m$  [WW19].  $N$  [Ste12, AS97, IN99, KSOK07,  
NM96, Sto96, WW19, XUZ02].  $O(m)$   
[NTHK17].  $\Omega(\log n - k \log k)$  [Gal96a].  $p$

**-Ary** [AS97, WW19, Bar93, NM96, Pel93,  
Sto96, VP99, KSOK07, Ste12]. **-based**  
[FMR05]. **-Bijective** [MCCW15]. **-CMP**  
[TKE<sup>+</sup>08]. **-Complete** [DM12].  
**-Connected** [QY20]. **-cube**  
[HK95b, KSOK07]. **-Cubes**  
[AS97, NM96, Ste12]. **-Cycles** [HY18]. **-D**  
[APY06, MCDB12, ST97]. **-Dependent**  
[GGHJ04]. **-Diameter** [ACM19b].  
**-Dimensional**  
[RS98b, San03, WW19, HS96]. **-Exclusion**  
[Vid06]. **-Extra** [LYW20]. **-Free** [NP04].  
**-Good-Neighbor** [LZC<sup>+</sup>21]. **-Graph**  
[LZG<sup>+</sup>19]. **-M** [Ram94]. **-nodes** [Wu95a].

**-Polyhedra** [QRR97]. **-Process** [IN99].  
**-Processor** [XUZ02]. **-reachable** [CFG94].  
**-Resilience** [IR16]. **-Separator** [PND02].  
**-set-based** [KCH92]. **-Shredders** [QY20].  
**-Size** [XUZ02]. **-Star** [CL13, MMCW18].  
**-value** [ZN13].

**1-edge** [CH94]. **1-Fault** [RV09]. **1-Interval** [MST21]. **1-Latent** [KY06]. **11-Step** [BB09].

**2** [Hag92, Sch97]. **2-CNF** [Hag92]. **2.0** [CG98a, DLPW08]. **2012** [DMVT14]. **2D** [Fra93a, YTL92]. **2D-PARBS** [Fra93a]. **2D-Torus** [YTL92].

**3-Connected** [KQY21]. **3-Extra** [ZXY21]. **3D** [BKT92, CM95, SC96]. **3D-grid** [BKT92].

**5** [WLR95]. **512** [Nov20].

**Abel** [Gla93]. **Abel-Poisson** [Gla93].  
**Abstract** [CFM<sup>+</sup>99, Her05]. **Accelerating** [MCR<sup>+</sup>17, RJ21]. **Acceleration** [DTST15, IKMH09, MV08b]. **Accelerator** [LCS<sup>+</sup>14]. **Accelerator-Based** [LCS<sup>+</sup>14].  
**Acceptance** [GHF10]. **Access** [CmL21, DWH<sup>+</sup>06, GRS07, HZW08, NA10d, TB94, VAP94]. **Account** [CQSY20a].  
**Achieve** [VMA11]. **Achieving** [WJ16].  
**Active** [FKB<sup>+</sup>99, GEL03, MAP<sup>+</sup>19].  
**acyclic** [CDZ96]. **Adaptable** [GKSP99].  
**Adaptations** [DPM<sup>+</sup>10]. **Adapting** [TT05]. **Adaptive** [Agr99, BIW11, CBV<sup>+</sup>05, DDT17, HW06, JL05, KBFB01, KB05, KY06, KW06, LL21, PAKM08, Ran05, SLG04, SS13, SZJK11, Tan09, WBUW14, ABIM93, Dua93]. **ADD** [KW19, VRR20]. **Adders** [TA09b]. **Adding** [SKL10]. **Addition** [EW10]. **Additional** [YL10]. **Additive** [Kru98, LS91]. **Address** [Ald03, BAS96b]. **Adjusting** [BF05].  
**Advances** [NA05, Qiu10]. **Affects** [DW07b].

**affine** [BFCD94, CRF95, KP94, Len92].  
**Agent** [PRH<sup>+</sup>03, VMA11]. **Agent-Based** [PRH<sup>+</sup>03]. **Aggregating** [YS05a].  
**Aggregation** [PA99]. **Agreement** [Mal97, Pel95]. **Aided** [VKS99, AD92a].  
**Alberto** [Ano04c]. **Algebra** [AB08, Sol09b].  
**Algebraic** [HCD<sup>+</sup>19, RR91]. **Algorithm** [AAH14, AD02, AG98, BE03, BGK<sup>+</sup>98, BSM<sup>+</sup>16, BOV15, BEGK00, CC17, CLM<sup>+</sup>16, DF99, DDS17, Dev05, DWS15, DT00, EW11, FS99, GMCC05, HA10, HHL<sup>+</sup>07, HL98b, HT99, HLJ97, IN99, JS06, KKS00, KOKM14, KSAOK05, LMS98, LPP01, LN05, Mar98, MMT12, MM16, NF06, NTHK17, OV06, Pag13, Per21, RRM15, Ray21, ST12, SMK98, SCJ<sup>+</sup>10, TTV00, Tsa04, VKS99, Vid06, XX20, AS92, BNKS93, BK92, CM96, DJM91, DRS96, GI94, JR96, KDK<sup>+</sup>93, KESH95, LM97, MB95, OW92, PB96, Pan94, Per94, PS93, ROJ94, SF91, SS92, TM93, TH94, Wan96, Wu96, Wue09, YDL91, YDL94].  
**Algorithmic** [BDR<sup>+</sup>99, OLC<sup>+</sup>00, ZKmST18].  
**Algorithms** [APY06, Ano94, ACK99, AB16, BF02, CMS99, CJN99, CG98b, DDT99, DGT98, DFRC01, Don07, FDZ99, GGH<sup>+</sup>04, GRS07, GHS97, GK03, HHKM13, HKP<sup>+</sup>98, HHH<sup>+</sup>99, JW07, KLN04, KN06, KU09, LSF14, LMT10, MS99, MRRV07, MGBG07, MHKT05, MMAL06, MB98, NP04, PL11, PND02, PADB03, Raj02, RDK00, SKN10, SDLM18, VP98, VSS00, WSK16, XUZ02, BM95, BCD95, CLM93, Chl92, CT94, CF95, DH94, DDTV92, Dua93, FD92, HK95a, IR95, Nak95b, NR95, OSW93, PA95, PD95, Qia95, RP93, RSS95, SC96, XWF93, Zar97, SW93].  
**Aligned** [YWJ03]. **Alignment** [AP05, IKMH09, LMS98, DR94, KDK<sup>+</sup>93].  
**Alignments** [FAH03]. **All-Optical** [CKP00, PSSV02]. **All-To-All** [APY06, FV99, CMS99]. **Allocation** [BDG97, HW06, IÖ98, PK04, TE04, AER94, CC93, HS93, KY96, PPRZ93, RB95].  
**Allocator** [VH01]. **Almost**

[De 04, KN06, Pel95]. **Almost-Optimal** [KN06]. **Almost-safe** [Pel95]. **Alternator** [Had08, Kul07]. **Amdahl** [CWR21]. **Amdahl-like** [CWR21]. **Among** [CH03]. **analyse** [AR96]. **Analysis** [AD02, Agr99, CG97, GLMM<sup>+</sup>04, GRS07, GS97, HC02, JSZM08, KOKM14, KBG<sup>+</sup>13, Kra01, LCS<sup>+</sup>14, MMJ<sup>+</sup>03, RvGG01, SBR<sup>+</sup>17, SMH03, WR97, WGM<sup>+</sup>10, YGM97, ZHW09, ZXY20, Lin92, VP96, Wan96]. **Analytical** [AH00a, AH00b, ZSLC18]. **Analytically** [GGS<sup>+</sup>15]. **Analyzing** [ARA20]. **Anarchy** [GLMM06]. **And-Parallelism** [Mar98]. **Annealing** [Pet03]. **Anniversary** [Akl11b]. **Anonymous** [CLM<sup>+</sup>16, DDLV17, Tur10]. **Ant** [DHBL06]. **Anticipated** [LM00]. **API** [CH03]. **Apostolico** [Ano04c]. **Application** [BLY<sup>+</sup>08, GB98, GM04, HW06, KS97, KC02, NA10b, ZHW09, Lin92]. **Applications** [AB08, AKP99, BS01, BRT09, BCL97, BDG97, CMS99, CLT13, CGS15, CLZC11, CFG04, FOCK15, FC05, FAMP12, Gar14, GP03, Ger02, GG96, HM01, HL03, IDS<sup>+</sup>05, KBFB01, KLJ08, KHAM04, LF14, LFJ99, MTD98, MMJ<sup>+</sup>03, NKCS03, NTG99, PT07, PT98, RBS15, SB12, VD03, ZMD15, Alb92, DM96, LOSZ93]. **Applied** [AIL16, CmL19a]. **Applying** [Mac12, TFTY05, TB18]. **Approach** [EADN06, Gam07, GS15, KWDS03, VLR<sup>+</sup>03, CU96, FFSY93, RP93, Xue96]. **Approaches** [AL05, BMSW04, DHBL06]. **Approximability** [CDP<sup>+</sup>07, SX02]. **Approximate** [HRH18]. **Approximating** [Hag92]. **Approximation** [AB16, BGK<sup>+</sup>06, Tur10, BCD95, DV97, FR96]. **Approximations** [BBL04]. **Arbitrary** [BD02, CM97, DWS15, Had08, VRR20, ES92]. **arc** [RB93]. **arc-disjoint** [RB93]. **Archetypes** [Mas99]. **Architectural** [Gam07, DRS96]. **Architecture** [ATM01, BLY<sup>+</sup>08, DDS17, Fuj08, HL98b, MCDB12, MAP<sup>+</sup>19, MCR<sup>+</sup>17, MIJ16, PL11, ZS08, AD92b, GS95]. **Architectures** [ADKT12, AFN11, BGJ10, BCL97, CG98b, CRY<sup>+</sup>03, Mic98, PAKM08, CLZ92, CF91, DM96, DAB<sup>+</sup>11, Nak95a, RR91]. **Area** [PADB03, PT07, CQS09]. **Areas** [CQS11]. **arithmetic** [GW94]. **ARM** [TH13]. **ARMI** [TSS<sup>+</sup>06]. **arounds** [KRS93]. **Arrangement** [AA21, ZXLY20]. **Array** [CG97, DP03, ER99, LTZ98, MCDB12, QM98, RS97, YKLD14, AQRW95, Kri91, Qia95, Sto96, TM93]. **Arrays** [DT00, FUV99, GS03, HQP98, KM09, Sib02, UKY09, GW94, Gla93, IK96, Len92, Myo92, Oks95, OSZ91, PS93, RR91, Xue91]. **Art** [KB19]. **Artificial** [Mac12, YF18]. **Ary** [AS97, KSOK07, Ste12, WW19, Bar93, NM96, Pel93, Sto96, TM93, VP99]. **Asher** [Wan96]. **Aspects** [NA07b]. **Assessing** [BMRGR13]. **Assignment** [EB98, KU09, KN92]. **Assist** [AB08]. **associated** [DT96]. **Association** [TH13, ZN13]. **Associative** [AAH14, SW08, THAJ15]. **associativity** [DGJS95]. **Assumption** [MMRT06]. **Asymptotic** [GGV12, PT07]. **Asynchronism** [RR08]. **Asynchronous** [BIW11, GSS08, IR16, Pel06, YS05a, AJ96, Dor92, FMR05]. **ATM** [EFZ98]. **Atmospheric** [LF14]. **ATMR** [CP98a, CP98b]. **Atomic** [BF97]. **Attached** [DWH<sup>+</sup>06]. **Attacks** [LLC11]. **Augmentation** [JS15]. **Augmented** [ZXY20]. **Authenticated** [CLL16, NA07c]. **Authentication** [CLH13, LLC11]. **Author** [Ano98a, Ano99a, Ano00a, Ano01a, Ano02a, Ano03a, Ano04a, Ano05a, Ano06a, Ano07a, Ano08a, Ano09a, Ano10a, Ano11a, Ano12, Ano13, Ano14, Ano15, Ano16, Ano17, Ano18, Ano19, Ano20, Ano21]. **Auto** [CFL12, HIMD21]. **Auto-Tuning** [CFL12, HIMD21]. **Automata** [Car07, DTST15, TLHL17, Tor09, Wue09, BH96]. **Automated** [HC02, LLD<sup>+</sup>03, TLHL17]. **Automatic** [AB08, AGMM00, BF97, CL95,

CJ01, EW13, HBL03, KKKL18, MRS04, MMJ<sup>+</sup>03, NvG95, WLW11, Fea94, GAL96b]. **Automaton** [MG09, MS09]. **Availability** [Wol99]. **Average** [CQS11, LP98, BHPS95, Kop96]. **Averaging** [RJ21]. **avoidance** [Dor92, Dua92]. **AVX** [Nov20]. **AVX-512** [Nov20]. **Aware** [ACCLS14, BMRGR13, BK08, DDT17, FOCK15, LO09, LN05, SYR13a, ZS08]. **Axiom** [CBC03].

**Back** [HL98b]. **Back-Propagation** [HL98b]. **Background** [SCJ<sup>+</sup>10]. **backtrack** [KCH92]. **Bag** [FOCK15, OKL11, SB12]. **Bag-of-Task** [FOCK15]. **Bag-Of-Tasks** [OKL11, SB12]. **Balanced** [ST14, SŠZ04]. **Balancers** [KMAG01]. **Balancing** [CLR11, DEKS04, EMPF04, GC06, GT00b, MRRV07, ST12, VH00, CLZ92, XL94]. **Bandwidth** [CRY<sup>+</sup>03, BKT95, Pel93, VP96]. **Barnes** [BGLM05]. **Barrier** [APSF01]. **Barrier-Lock** [APSF01]. **base** [GM92]. **Based** [AAH14, Ahn19b, ARA20, AGLS12, AKP99, CLL16, CGW05, CJ01, Deb97, DHBL06, DEKS04, DBK<sup>+</sup>09b, EW13, ESSP01, FC05, FGK15, HHL<sup>+</sup>07, HL98b, KSAOK05, LCS<sup>+</sup>14, LZC<sup>+</sup>21, LMT10, MCDB12, MMT17, MR01, OLC<sup>+</sup>00, PFM<sup>+</sup>09, PRH<sup>+</sup>03, Sch05, SFHW11, Sch15, THAJ15, WLW11, Wu98, YKLD14, ZJSY20, ZZL<sup>+</sup>21, Ahn19a, AD92b, AQRW95, BNW07, DM96, FMR05, KS96, KP94, KCH92, KP96, Qia95, ROJ94]. **Basic** [Sol09b]. **Batch** [TLH11, FL96]. **Batched** [Nov20]. **BaTS** [FOCK15]. **Bayesian** [MMAL06]. **Be** [VMA11]. **Behavior** [Cho98]. **Being** [Akl10]. **Ben** [Wan96]. **Ben-Asher** [Wan96]. **Benchmark** [ZHW09]. **Benchmarking** [CG01, DM96]. **Benefits** [BK08, ZTS<sup>+</sup>16]. **Benes** [CM97]. **Best** [BET04, HIMD21, KBH03, KY96]. **better** [Wan96]. **Between** [BFG<sup>+</sup>08, DLP03, GM03, GVCS14, LLD<sup>+</sup>03, Trä09, Mac95]. **Beyond** [AB99, MST21]. **BFS** [SS92]. **bibliography** [Nak95a]. **Biconnectivity** [JS15]. **Bicriteria** [BBL04]. **Bicube** [LZC<sup>+</sup>21]. **Bicube-Based** [LZC<sup>+</sup>21]. **bidimensional** [ABIM93]. **Big** [MDAT17, VDL<sup>+</sup>15]. **Bijjective** [MCCW15]. **Binary** [CGR16, HMA99, KR98, QM98, XU99, XUZ02, SW93, UN92]. **Bioinformatics** [CCCV04, CFG04]. **Biological** [Ada07, CC17, IKMH09]. **Biomolecular** [FGK15, NA07b]. **BIP** [TW01]. **BIP/Myrinet** [TW01]. **Bipancyclic** [LZY18]. **Bipartite** [BMFU18, CJN99, Hag95, TMW20]. **Bird** [CS95]. **Bird-Meertens** [CS95]. **Bit** [Gla93]. **Bit-level** [Gla93]. **Black** [MCI<sup>+</sup>01]. **BLAS** [MCR<sup>+</sup>17, SS05]. **Block** [BOV15, MCDB12, OV06, VRT97, WBUW14]. **Block-Cyclic** [VRT97]. **Block-Jacobi** [BOV15, OV06]. **Block-Parallel** [MCDB12]. **Blocked** [FDZ99]. **Blocking** [HT98, WHTW10]. **Blog** [BLL12]. **Blue** [KBG<sup>+</sup>13]. **Bluegene** [ABB<sup>+</sup>03]. **Bluegene/L** [ABB<sup>+</sup>03]. **Bluetooth** [TB18]. **Boltzmann** [OTK15, PKW<sup>+</sup>03, ZHW09]. **Boolean** [TB94]. **bottleneck** [NM96]. **Bound** [CG98a, HPP99, CT94, CF95, Gal96a, Kop96, Mac93]. **Boundary** [BFG<sup>+</sup>08]. **Bounded** [BEGK00, KW19, Sin96, CK93]. **Bounds** [DR00, GR11, HT21, MV04, Pel93, SB12, CL93, MSP95, RLG91, Wu95a]. **Box** [MCI<sup>+</sup>01]. **Bracha** [Ray21]. **Bracket** [HT99]. **Braided** [LG97]. **Branch** [CG98a, HPP99, CT94, CF95]. **Branch-And-Bound** [HPP99, CG98a, CT94, CF95]. **Breadth** [Gre93]. **Breadth-depth** [Gre93]. **Bridges** [Dev05]. **Brief** [CQSY20a]. **Broadcast** [Ahn19a, BM97, DVWZ99, IR16, LP98, LM00, Mic98, Ray21, RV09, SW08, HK95b, Mac93, SV93, WV95]. **Broadcast/Reduction** [SW08]. **Broadcasting** [AD02, CMS99, DR00,

DKP98, DD99, DV02, HL98a, KCPP00, Pel92, Qiu07, BKK94, BOSZ92, BOSW94]. **Broader** [TBV98]. **Bruijn** [AH98, Bar93, DA93, MV04, Pel93, RB93]. **BSP** [CG01, CS01, DPM<sup>+</sup>10, FS99, Gav03, GS99, Hin03, KH02, Kru08, Lou01, TLHL17, Zav01]. **BSP/CGM** [FS99]. **BSPGRID** [Vas03]. **BSPlib** [Sui17]. **BSR** [GS94b, XU99, XUZ02]. **buddy** [JD92]. **Budget** [OKL11, WSK16]. **Buffer** [AP05]. **Buffering** [BF02, BCS05]. **Buffers** [Gon09]. **Building** [Gam02]. **Bulk** [BVHR13, CS03, Gav08, Sui17]. **Bulk-Synchronous** [CS03, Gav08]. **Bus** [ER99, HL98b, KCPP00, Wu98, FY93, HS96, OSZ91, PS93, Qia95, Sah95, TM93]. **Bus-Based** [HL98b]. **bused** [CL93]. **Buses** [HQP98, KM02, LTZ98, QM98, RS97, KRS93, LOSZ94, Sue95]. **Butterflies** [KKC98]. **Butterfly** [BDDP98, FU92]. **Buttery** [CQS16]. **Bytecode** [Gam03]. **Byzantine** [ABO06, BIW11, FMR05, IR16, Mal97, MT16, Pel95, Pel06, Ray21].

**C** [BGL03, BGLM05]. **Cache** [AFN11, CmL21, CP98c, KS97, KET06, PKW<sup>+</sup>03, DGJS95, KS96]. **CacheFlow** [KET06]. **Caches** [WHTW10]. **Caching** [SBR<sup>+</sup>17]. **Calculating** [CS95, Cos15b, HT99, ZN13]. **Calculus** [DP03]. **camera** [Ano98g]. **camera-ready** [Ano98g]. **Caml** [CF03, CRV08]. **Can** [Pan03, VMA11]. **Canonical** [QRR97]. **Capture** [SBR<sup>+</sup>17]. **Card** [WJ16]. **Cards** [SCF01]. **Carlo** [HUZ06, MHC<sup>+</sup>04]. **Carry** [TA09b]. **Cartesian** [AA21, ACM19a, BA95, Wan96]. **Cascades** [BLL12]. **Case** [BGLM05, CFG04, DBK09a, HTHH05, MG11, NDFM07, VLR<sup>+</sup>03, ZTS<sup>+</sup>16, BHPS95]. **Case-Study** [HTHH05]. **Causal** [BM97]. **CCCs** [SŠ03]. **Cell** [Dec21, DBK<sup>+</sup>09b]. **Cellular** [Car07, DTST15, GT00a, GMCC05, JW07, MG09, MS09, Tor09, Wue09]. **census** [BNKS93]. **Center** [HY19, LZS<sup>+</sup>18, SDLM18, XLP12, ZMZZ20, ZMZZ21]. **Certain** [RRM15]. **Certified** [CLL16]. **CFD** [Tan09]. **CFinder** [PPV12]. **CGM** [FS99]. **Chain** [BRT09, Wue09, ZN13]. **chain-rules** [Wue09]. **Chains** [ACK99, SDLM18]. **Challenges** [LGHB07]. **Channel** [Dua92, GR11, GHS97]. **Channels** [BL08, KW19, VRR20]. **Characteristics** [HZW08, Vir93]. **Characterization** [EFZ98, DDR96]. **Characterizing** [CLT13]. **Check** [PT07]. **Checking** [RvW98]. **Checkpoint** [SWK<sup>+</sup>13]. **Checkpoint/Restart** [SWK<sup>+</sup>13]. **Checkpointing** [Ahn19a, CCR11]. **Chemical** [Cos15b, MBT15, ZKmST18]. **Chief** [Ano01c]. **Chip** [BLY<sup>+</sup>08, CmL19a, TKE<sup>+</sup>08, ZJ09]. **Chip-Multiprocessor** [TKE<sup>+</sup>08]. **Chips** [Jes08, PAKM08, ZSLR21]. **Cholesky** [CHQ96, KESH95]. **Chordal** [NP04, PND02, KP96]. **chordless** [CLM93]. **Christmas** [RRM15]. **Circuit** [IÖ98, PS98, BHPS95]. **Circuit-Switched** [IÖ98, PS98]. **Circuits** [SX02, RB93]. **Circulation** [KOKM14]. **CIRM** [BET04]. **Class** [LSW97, XLP12, XX20, ZXLY20, BE96, HL96]. **classes** [Dua92, RP93]. **Classical** [NA07c]. **Classification** [AAH14, THAJ15]. **Cleaner** [JS18]. **Client** [GM04]. **Client-Server** [GM04]. **Clients** [ABO06]. **Clique** [AKPSR16]. **Clock** [APSF01, PT97]. **clocks** [ADG91]. **close** [GS94a]. **Closed** [ANS12]. **Closure** [PL11, AIn94, GMR92]. **Cloud** [DJMN13, KB19, WSK16]. **Clouds** [DT13, DT15, MJGR09, OKL11]. **Cluster** [DEKS04, GM03, GKSP99, PRH<sup>+</sup>03, RšT06, VLR<sup>+</sup>03]. **Cluster-Based** [DEKS04]. **Clustered** [Trä09, TDS99]. **Clustering** [BNW07, CC17, DWH<sup>+</sup>06, Fox13, HA10, PPV12, KESH95]. **Clusters** [Aba04, BLMR03, CG01, Dan01, DT01,

DT13, DT15, FOCK15, HCD<sup>+</sup>19, Kra01, PA99, WHTW10]. **CM** [WLR95]. **CM-5** [WLR95]. **CML** [Deb97]. **CMP** [TKE<sup>+</sup>08]. **CNF** [Hag92]. **Co** [GLMM<sup>+</sup>04, SYR13a]. **Co-Regulated** [GLMM<sup>+</sup>04]. **Co-Schedules** [SYR13a]. **Coarse** [Box09, Box21, CD99, SSK<sup>+</sup>18]. **Coarse-Grid** [SSK<sup>+</sup>18]. **coarsest** [GI94, Gal96a, JR96]. **Code** [EW13, Gam07, KLH<sup>+</sup>14, KKKL18, van94]. **Codes** [Agr99, GKS<sup>+</sup>14, KLN04, KN06, KLH<sup>+</sup>14, PT07, PKW<sup>+</sup>03, WHTW10, Sto96, TM93]. **Codeword** [Gar14]. **Coherence** [CP98c]. **Collaborative** [RGM06]. **Collecting** [FDFR93]. **Collection** [AKP99, PK04]. **Collections** [ZTS<sup>+</sup>16]. **Collective** [BIC05, HSL09, Trä09, WLR95]. **Colony** [DHBL06]. **color** [PB96]. **Colored** [ACM19a]. **Coloring** [ACM19a, FR96]. **column** [Sue95]. **Columns** [Jai99]. **combination** [Gri92]. **combinations** [ES92]. **combine** [BH93]. **Combined** [Mak09]. **Combining** [DSV97, Pet03]. **Common** [BFG<sup>+</sup>08, CS13, Per21]. **Communicating** [BW16]. **Communication** [Ahn19a, Ahn19b, APY06, ATM01, AP05, BBF05, BIC05, BGPT00, BCS05, CKP00, CFM<sup>+</sup>99, CCA01, CG98b, DFRC01, DGVG96, Gon09, IT02, IDS<sup>+</sup>05, JSZM08, KM09, LDC08, NA07c, Nit05, PSSV02, PS98, PAKM08, Pur06, Res97, RšT06, ST12, SMK98, SFHW11, TB18, TSS<sup>+</sup>06, Trä09, VRT97, YGM97, AER93, DDT95, GC95, LJ95, NPT95, Qia95, RLG91, WLR95]. **Communication-Efficient** [DFRC01]. **communication-intensive** [Qia95]. **communication-time** [LJ95]. **Communications** [BGK00, FV99, GM03, GBS<sup>+</sup>07, HSL09, SŠZ04, Wu98]. **Communities** [BLL12, PPF12]. **Community** [FAMP12, NTV12, TMKS16]. **Compact** [BF02, CJ01]. **Comparative** [CDM<sup>+</sup>03, Fra93a]. **Comparing** [DW07a]. **Comparison** [FV99, LL21, Mer15, MDAT17, KRS93]. **Compensation** [MS05]. **Competitive** [BDG97, KRS15, Fio93]. **Compilation** [BGJ10, Kre97]. **Compile** [KS97, KS96]. **Compile-Time** [KS97, KS96]. **Compiled** [JSZM08]. **Compiler** [Bra00, LF14, Qui00, RvW98]. **Compiling** [ABNP00, PP97, van94, Mon94]. **Complementary** [TMW20]. **Complete** [ACM19a, BGPT00, DM12, EFZ98, Sch09, BCD95, Gre93]. **Complexity** [AKPSR16, BBF05, BRT09, CCQ13, CDP<sup>+</sup>07, GPS03, OLC<sup>+</sup>00, Pur06, Ste12, TBV98, TX98, ZKmST18, AER93, CDZ96, NPT95]. **Component** [KBFB01]. **Components** [GSS08, SKN10]. **Composition** [FC05, Pag13, ZTP<sup>+</sup>08]. **Compressed** [De 04, HlMD21]. **Compression** [HS97, KKS00]. **Computation** [Akl03, Alb92, ANS12, DDS17, FUV99, HW07, Jon15, Mac12, Nov20, OKH<sup>+</sup>02, Qiu10, Sta12, Vas03, ZSLC18, BIL92, GS94b, LP94, NvG95, RV96, SBP94]. **Computational** [ABG02, AVD01, Cam08, CLR11, DJMN13, DT01, MKA98, Ste12, LOSZ94, HMA99, Wol99]. **Computations** [Akl06b, Bra00, BA01, GK14, HlMD21, KM09, LF97, SHBG14, WJ12, YWJ03, BOSW94, CC93, JJ96, Akl06a]. **Compute** [DBK<sup>+</sup>09b, RGM06]. **Computer** [Akl06c, NA07a, AD92a, AD92b, Ano98g, Chl92, Sah95]. **Computers** [Hua06, KCPP00, LPP01, DJM91, FY93, MMMS94, Zia95]. **Computing** [AGLS12, BDH<sup>+</sup>08, BCMC<sup>+</sup>04, BDR<sup>+</sup>99, CSK00, DMVT14, DT01, DT13, DT15, DM12, FVR20, FGK15, GLMM<sup>+</sup>04, GS94b, GK13, HQP98, HT94, IDS<sup>+</sup>05, KB19, KBGE07, KWDS03, LMZ99, LOSZ94, LY07, MG11, MB98, NA07b, SCF01, SS13, TDS99, VMA11, VDL<sup>+</sup>15, BNKS93, NR95, Pan94]. **concave** [LP94]. **concept** [Dua92].

**Concurrency** [GRS07, Jes06]. **Concurrent** [BGJ10, Deb97, GR99, HHL<sup>+</sup>07, Sch15, SCJ<sup>+</sup>10, Vid06, ZTS<sup>+</sup>16]. **Condition** [GR99]. **Conditional** [CP12, CL13, CQS16, LYW20, Wan96]. **Conference** [DMVT14]. **Configuration** [CSK00, Sch09]. **Conflict** [VLL<sup>+</sup>91]. **Conflict-free** [VLL<sup>+</sup>91]. **Congestion** [DM12, RS98b]. **Conjugate** [SSK<sup>+</sup>18]. **Connected** [AKPSR16, CZ20, KQY21, LPL20, LZY18, MST21, QY20, SKN10, VRR20, Chl92, FY92, KY96, Kri91]. **Connection** [MCCW15]. **Connectivity** [AS19, Bur21, CQSY20a, HY19, kLCL20, LYW20, MWZ19, Nin20, TMW20, WW19, WXW20, ZXY20, ZXY21, AIn94, YDL94]. **Conquer** [HL00, Tis01, HL96]. **Conqueror** [GKS<sup>+</sup>14]. **Consensus** [BIW11, MR01, MPR18, FMR05]. **Consistency** [GR99, HK16]. **Console** [ESSP01]. **Constant** [ADS91, DDLV17, DMS99, MB98, SDLM18, MB95, Pan94, PS93]. **Constraint** [HKS01, OII12]. **Constraints** [WSK16, CRF95]. **construct** [SS92]. **Constructing** [GM92, JS18, KW06]. **Construction** [BSM<sup>+</sup>16, BHQ92, CRF95, DZ13, DVWZ99, EFZ98, KR98, KLN04, KN06, BH96]. **constructions** [CC92]. **constructor** [Sie96]. **Consumers** [LLD<sup>+</sup>03]. **Consumption** [dSJR<sup>+</sup>15]. **Contention** [AFN11, BK09, CGR16, NPT95]. **Contention-Friendly** [CGR16]. **Context** [BW16, Sch15]. **Context-Based** [Sch15]. **Context-Free** [BW16]. **Continuous** [FUV99]. **Contour** [MB98, Gla93]. **Contractible** [KQY21]. **Contraction** [MHKT05, QY20]. **Contraction-Critical** [QY20]. **Contrast** [MTD98]. **Control** [Cam08, CmL19a, Kme14, MAP<sup>+</sup>19, NA10d, OKL11, FFSY93, SF91, Xue91]. **Controlled** [GRS07]. **Controllers** [SKL10]. **Convection** [ZLL04]. **Convection-Diffusion** [ZLL04]. **Convergence** [AVD01, DWS15]. **Convertible** [CLL16]. **Convex** [BOSZ92, RB95]. **Convolution** [YF18]. **Cooperative** [DHBL06, GK13, RR08, ZTP<sup>+</sup>08]. **Coordinates** [PPF12]. **Coordination** [GSS08, ZTS<sup>+</sup>16]. **Coping** [NA10a]. **Copy** [GS97, Yai08]. **Copying** [PK04]. **Core** [AFN11, BDH<sup>+</sup>08, DZ13, Jes08, MIJ16, SKL10, Sol09a, Sol09b, UVJ11, DAB<sup>+</sup>11]. **Cores** [BBG<sup>+</sup>11]. **Correctness** [CP98b, O'D94]. **Coscheduling** [CCA01]. **Cost** [BGK03, HC02, LM00, NF06, SMH03, ZTS<sup>+</sup>16, DGJS95, Gal96a, PRS95]. **cost-effective** [PRS95]. **Costs** [BCS05, Cam08, GS97]. **Count** [EFZ98]. **Counterexamples** [Akl06c]. **counters** [AR95, ADS91]. **coupled** [CF91]. **Cover** [Tur10, BCD95]. **Coverability** [BW16]. **Coverage** [DGB10]. **CPU** [GGV12, Wol99]. **CPU/GPU** [GGV12]. **crash** [GV93]. **crash-tolerant** [GV93]. **Cray** [DBK09a]. **CRCW** [Fra93a]. **CRCW-PRAM** [Fra93a]. **Create** [MCI<sup>+</sup>01]. **creation** [SJL94]. **CREW** [LO93]. **Critical** [QY20]. **Cross** [SS13]. **Cross-Paradigm** [SS13]. **crossbar** [SF91]. **Crossed** [CP12, HLH<sup>+</sup>17]. **crossstalk** [BAS96b]. **Cryptographic** [NA10d]. **Cryptography** [NNA10]. **Cube** [HLH<sup>+</sup>17, KSOK07, LC14, LH02, Wu98, FU92, HK95b]. **Cube-Based** [Wu98]. **cube-connected** [FU92]. **Cubes** [AMC18, AS97, CP12, DZ13, Ste12, ZXY20, NM96]. **Cubic** [KQY21]. **CUDA** [Fuj08, WJ12]. **Current** [SFHW11]. **Curves** [ANS12]. **Cut** [Dev05, ABIM93]. **Cut-Nodes** [Dev05]. **cut-through** [ABIM93]. **Cutting** [BMSW04]. **Cutwidths** [MV04]. **Cycle** [BDDP98, MMT17]. **Cycle-Based** [MMT17]. **Cycles** [ACM19a, AS97, HY18, HKP<sup>+</sup>98, CLM93, FU92]. **Cyclic** [VRT97]. **D** [Kru98, TKE<sup>+</sup>08, APY06, DFRC01,

MCDB12, MG09, Pan97, ST97, WGM<sup>+</sup>10, YKLD14]. **DAG** [CJ01, DDT99, DT96]. **DAGs** [CSBS95]. **DARPA** [LY07]. **Dashboard** [RGM06]. **Data** [Agr99, ADKT12, Ser01, ABNP00, AVD01, BLMR03, BGL03, BGLM05, BIL92, Bra00, Cam08, CDM<sup>+</sup>03, CSFK08, DDT17, DZ13, DT13, DT15, FKB<sup>+</sup>99, Gav08, GGS<sup>+</sup>15, GB98, GKS08, Guo01, GS97, HA10, HZW08, HY19, KKKL18, KET06, LMZ99, LF97, LTB01, LZS<sup>+</sup>18, MP93, MRRV07, MDAT17, Mon94, NKCS03, PP01, RJ21, RBS15, Sah95, SBR<sup>+</sup>17, TKE<sup>+</sup>08, THAJ15, Tho03, XLP12, XWF93, YGM97, ZSLR21, ZMZZ20, ZMZZ21, CU96, GAL96b, GDC94, GHSJ94, HT94, LV96, NvG95]. **Data-Center** [XLP12]. **Data-Driven** [NKCS03, TKE<sup>+</sup>08]. **Data-Flow** [Ser01]. **Data-Parallel** [ABNP00, BGL03, GB98, Guo01, GS97, RJ21, CU96, LV96]. **Database** [NKCS03]. **Databases** [DEKS04, FKB<sup>+</sup>99]. **Dataflow** [CG97, MDAT17]. **Datagrid** [Sch05]. **Dataset** [PPF12]. **DatTeL** [BGL03]. **DCell** [LZS<sup>+</sup>18]. **Deadline** [WSK16]. **Deadlock** [Di 00, KSAOK05, SV00, WS03, Dua92, Dua93, FD92]. **Deadlock-Free** [SV00, WS03, Dua93]. **deadlocks** [Dor92]. **deBruijn** [Sch93]. **Debugging** [Sui17]. **December** [Akl14a]. **Decentralised** [GGV12]. **Decentralized** [TT05]. **Decidability** [AMN12, KM09]. **decision** [SW93]. **Declarative** [GSS08]. **Decoders** [De 04]. **Decoding** [XU99, XUZ02]. **Decoherence** [NA10a]. **Decomposable** [SŠZ04]. **Decomposition** [BDDP98, DHBL06, LSF14, OK20, YKLD14, DV95, IR95, NvG95, Sch93]. **Decompositions** [Nov20]. **Decoupled** [SAJ10, Tho03]. **Deep** [YF18]. **Defeats** [NA07a]. **defined** [NR95]. **Degree** [CK93, DLP03, Had08]. **Degree-bounded** [CK93]. **Delaunay** [LPP01]. **Delay** [BNW07, GS15, MBT15, ADS91, BHPS95, NPT95]. **Delayed** [PK04]. **Delays** [BGPT00]. **Demand** [CRY<sup>+</sup>03, YGM97]. **Demand-Driven** [YGM97]. **demon** [TH94]. **Denotational** [Guo01]. **Dense** [DP03, Fuj08, IT02, WJ16, MP93]. **Density** [DW07b, HTHH05, PT07]. **Departmental** [GL05]. **Dependence** [KBFB01]. **dependencies** [HT94]. **Dependency** [KRS15, JJ96]. **Dependent** [GGHJ04]. **Deployment** [CFG04]. **depth** [Gre93]. **Derivation** [GB98, HC02, MHKT05, SMK98]. **Deriving** [Nit05, RDK00, RR91]. **Description** [Sch05, WLW11, ROJ94]. **Design** [BM97, BLY<sup>+</sup>08, CS03, CG98b, Gar14, GEL03, GM04, HIMD21, MCR<sup>+</sup>17, SZH14, YKLD14, Dua93, FFSY93, PRS95, SC96]. **Designing** [PMW<sup>+</sup>12, Tsa04, Qia95]. **designs** [CH94]. **Desktop** [BFG<sup>+</sup>08, CSFK08]. **Destinations** [ST97]. **Detection** [DMS99, GKK14, HIMD21, Mar98, ZYPGD08, FD92]. **Detector** [VRR20]. **Determination** [CFG04]. **Determining** [Alb91]. **Deterministic** [AJ96, DZ12, DFRC01, GS99, HPP99, RS97, RvGG01, DH94]. **Developing** [Ada09, Pan03, VD03]. **Development** [ABG02, CQSY20a, ESSP01, Hin03]. **Device** [DWH<sup>+</sup>06]. **Devices** [LC14, SMK98, SCF01]. **devising** [Fla97]. **DHcube** [ZZZY21]. **Diagnosability** [CQS16, LYW20, WXW20]. **Diagnosis** [EADN06, LL21, ZZL<sup>+</sup>21, DTLA93]. **Diagram** [DFRC01]. **Diagrams** [Cos15b, SW93]. **Diameter** [ACM19b, HL99, SH99, Sri96]. **Diamond** [GVCS14]. **Dictionary** [HS97, CC95]. **Difference** [Pur06]. **Different** [CH03]. **Differential** [OK20]. **Diffusion** [BLL12, EMPF04, ZLL04, XL94]. **digital** [ADG91, Gla93]. **Digraph** [PL11]. **digraphs** [CFG94]. **Dilation** [EM98]. **Dimension** [BEGK00, KW06, SŠ03]. **Dimension-Adaptive** [KW06]. **Dimensional** [BCMC<sup>+</sup>04, BMSW04, Car07,



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**FAB** [YWJ03]. **facility** [LHCT96]. **Factor** [LLC11, BH96, CHQ96]. **factorisation** [PBKP92]. **Factorization** [FV16, GCP99, DDT95, KESH95, MP93]. **Factorizations** [ZSLC18]. **Facts** [Sza12]. **Faculty** [KMY97]. **Failure** [GRS07, NDFM07, VRR20, ZYPGD08]. **Failure-Sensitive** [GRS07]. **Failures** [MT16, MLY99]. **Fair** [CRV08]. **Fairly** [GGS<sup>+</sup>15]. **Fairness** [GS15]. **False** [SX02]. **Family** [UKY09, Fio93, HP92]. **Fantasy** [Syr13b]. **Far** [Sch09]. **Farm** [PK08]. **Fast** [BM95, CH96, CCA01, CGR16, DDS17, DS97, HK95a, HPP99, HRH18, LSF14, RV96, AIn94, AS94, DRS96, GHSJ94, Sta95]. **Fastest** [CJN99]. **Fat** [ZJ09]. **Fat-Meshe** [ZJ09]. **Fault** [ARS93, CC11, EADN06, GKK14, GK13, GP96, HLH<sup>+</sup>17, KHAM04, LH02, LNLE00, MLY99, MV08a, NTG99, Res97, RV98, RV09, SV00, SH99, VMA11, Wu98, ZXY20, BK92, CM95, CH94, DTLA93, RT92]. **Fault-Hamiltonicity** [HLH<sup>+</sup>17]. **Fault-Tolerance** [CC11, NTG99]. **Fault-Tolerant** [LH02, MLY99, MV08a, Res97, RV98, SV00, Wu98, ZXY20, BK92, CM95, CH94]. **Faults** [DR00, DV02, Mal97, MCCW15, DMP94, Pel95]. **Faulty** [ABO06, DPS00, IÖ98, KOKM14, Ste12, Pel92, Wu95a]. **Federated** [GMK13]. **Feedback** [Akl03, TFTY05]. **Feynman** [FGK15]. **FFT** [APY06, EW11, GB98]. **File** [DWH<sup>+</sup>06, GMK13, PADB03]. **Filters** [KE06]. **Final** [Kme14]. **Finding** [BGK<sup>+</sup>98, Dev05, DW07a, DW07b, SDLM18, Wu00, CDSS93, CLM93]. **fine** [CSBS95, GG96]. **fine-grained** [CSBS95, GG96]. **Firing** [UKY09]. **First** [DMVT14]. **fit** [KY96]. **Fixed** [Kme14, LJ95]. **fixed-processor** [LJ95]. **Flexible** [GBS<sup>+</sup>07]. **Flight** [CF03]. **Floating** [MCR<sup>+</sup>17]. **Flow** [ADKT12, Ser01, DDT17, FGK15, YGM97]. **Flows** [ZSLR21]. **Fluids** [LBD<sup>+</sup>14]. **flush** [AR95]. **Folded** [Nin20, Lat91]. **Follow** [Ada09]. **Forced** [SZH14]. **forest** [OW92]. **Foreword** [GL02]. **Form** [Rob11, RV96]. **Formal** [BA01, GP03, Gav03, GB98, Sch15]. **formalism** [CS95]. **Formalisms** [HL02]. **Format** [HIMD21]. **Formed** [Tsa04, VP98]. **Fortran** [Sch97, EB98]. **Foundations** [Deb97]. **Four** [EM98, UKY09]. **Four-State** [UKY09]. **Fourier** [NA10a, GHSJ94]. **FPGA** [ZJSY20]. **FPGAs** [Dec21, TKE<sup>+</sup>08]. **Fractional** [MMCW18, ZZZY21, ZMZZ20, ZMZZ21]. **Fragile** [MCDB12]. **Framework** [DDT17, FC05, GDDM17, LC14, RBS15, TH13, Tor09, VD03]. **Frameworks** [KWDS03, MDAT17, Qui00, THAJ15]. **Free** [BW16, FNP17, KY96, Kme14, MMRT06, NP04, PT97, SV00, ST14, WS03, Dua93, VLL<sup>+</sup>91]. **Friendly** [CGR16]. **FT** [LNLE00]. **Fully** [AKPSR16, TH94]. **Fully-Connected** [AKPSR16]. **Function** [KW06, GI94, JR96]. **Functional** [BL08, DRS96, Gav03, GL05, HL02, LCK02, Lou01]. **Functions** [AH00a, AH00b, Akl03, Nit02, BNKS93, Gal96a, NR95]. **Further** [HUZ06]. **Fusing** [ATM01]. **Fusion** [PMW<sup>+</sup>12, WBUW14]. **Fusion-Driven** [PMW<sup>+</sup>12]. **Future** [CQSY20a, KB19]. **Fuzzy** [AsS19].

**G** [LTB01]. **Game** [AsS19, BCBB09, YF18]. **Games** [DM12]. **Garbage** [AKP99, PK04]. **Gate** [FGK15]. **Gates** [SX02]. **Gathering** [BGK<sup>+</sup>06, MST21, CF93]. **Gene**

[SZH14, KBG<sup>+</sup>13]. **General** [BGJ10, NTHK17, SAJ10]. **General-Purpose** [SAJ10]. **Generalising** [Xue96]. **Generalization** [CS13, KP96]. **Generalized** [BCQO99, HY19, ZXYY20, ZZL<sup>+</sup>21, DA93]. **generate** [TM93]. **Generating** [BEGK00, GS94a, Her05, Sto96, Tsa04, AS92]. **Generation** [EW13, LBD<sup>+</sup>14, Pag13, SSK<sup>+</sup>18, TLHL17, VP99, VRT97, WLW11, CL95, ES92]. **Generations** [EW13, KBG<sup>+</sup>13]. **Generative** [KB05]. **Generator** [KOKM14, KKKL18]. **Generic** [Ger02, GB98, Nit05]. **Genes** [GLMM<sup>+</sup>04]. **Genetic** [CG98b, LN05, VKS99, DDTV92]. **genome** [ZN13]. **genome-wide** [ZN13]. **Genomic** [SZH14]. **Gentle** [GSS08]. **Geometric** [Akl06a, Akl06b, DPS00]. **GFFS** [GMK13]. **Given** [EFZ98]. **Global** [ATM01, CBC03, CLH13, PS98, AR95, BH93, GMK13]. **Go** [KE00]. **Gödel** [AMN12]. **Gomoku** [YF18]. **Good** [LZC<sup>+</sup>21]. **Gossiping** [FPP98, HS96, HKP<sup>+</sup>98, RS96, SŠ03, FY93, LR93]. **Göttfert** [ST12]. **GPGPU** [BCL12]. **GPU** [EW11, EW13, GZW16, GGV12, LMT10, MG11, MV08b, SKN10, SHBG14, WJ16]. **GPU-Based** [LMT10]. **GPUs** [DZ12, HCD<sup>+</sup>19, IKMH09, LF14, Mer15, WJ12]. **graded** [FDFR93]. **Gradient** [SSK<sup>+</sup>18]. **Gradual** [BM97]. **Grained** [Box09, Box21, CD99, CSBS95, GG96]. **Grammar** [BW16]. **Granularity** [LTB01]. **Graph** [AA21, Agu02, ARA20, BGK<sup>+</sup>98, Bur21, CS13, DWS15, GHJ<sup>+</sup>08, LZG<sup>+</sup>19, LGHB07, SKN10, TMW20, ZMD15, AIn94, AR96, BKT92, CL95, GS95, IR95, PB96, Pel93, RB93, Sch93, Sri96, SS92]. **Graph-Optimization** [ZMD15]. **Graphics** [AIL16, EW10]. **Graphs** [Ada09, AH98, ACM19a, BMFU18, CZ20, CJN99, CL13, CQS16, DMNP11, EMPF04, FVR20, GZL<sup>+</sup>20, HHH<sup>+</sup>99, KRS15, KQY21, LP98, LYW20, MMCW18, MWZ19, MST21, MV04, NTHK17, NP04, PND02, PPF12, QY20, WXW20, ZXLY20, Bar93, CLM93, CQS09, GP96, HP92, Hsu93, Kop96, LH95, PS93, RP93, Wol95, YDL94]. **Gravity** [GT00a]. **Gray** [Sto96, TM93]. **Greedy** [ST97]. **Grid** [BCMC<sup>+</sup>04, CFG04, GLMM<sup>+</sup>04, GK13, GM04, KW06, LLD<sup>+</sup>03, MHC<sup>+</sup>04, Pan97, SSK<sup>+</sup>18, SPA04, TTV00, Gri92, CFR09, CSFK08, Don07, FC05, HK03, HUZ06, Kru98, MJGR09, NKCS03, Pan03, TT05, Wol99, ZS08, ZTP<sup>+</sup>08, BKT92]. **Grid-Enabled** [SPA04]. **Grid-Enabling** [GM04]. **Grids** [ABG02, AVD01, BF02, CCCV04, DT01, Gam07, RS98b, WBUW14, BFG<sup>+</sup>08, EM98, HMA99, NDFM07, ZYPGD08]. **Group** [CDP<sup>+</sup>07, Vid06]. **Groups** [GT00b]. **Guarantees** [YWJ03]. **Guest** [Ano06f, Ano07f, Ano07g, Ano08h, Ano08f, Ano08g, Ano09f, FAMP12, JKRW08, JKRW09, TA09a, Ada15, Ano06g, DMVT14, DT11, DT13, DT15, GK17, GK14, HGH12, Qiu10, Sta12, WKRJ10, WKR11, WKR13, WKR14]. **Guided** [TFTY05].

**H** [LTB01]. **H2O** [KWDS03]. **Hadoop** [GS15]. **Half** [JS18, KRS93]. **half-duplex** [KRS93]. **Halos** [Bra00]. **Hamilton** [BDDP98, SŠZ04]. **Hamiltonian** [LL21, PND02, RB93, Wu00]. **Hamiltonicity** [HLH<sup>+</sup>17]. **Hand** [San03]. **Handling** [Cam08]. **Hard** [Kre97, Mak09, Sar92]. **Hardness** [BGK<sup>+</sup>06, Fla97]. **Hardware** [DTST15, Mar98, MAP<sup>+</sup>19, SW08, SSK<sup>+</sup>18, ROJ94]. **Harness** [MS01a, GKSP99]. **Harnessing** [IKMH09]. **Hash** [PFM<sup>+</sup>09]. **Hash-Based** [PFM<sup>+</sup>09]. **Haskell** [HBL03]. **Heap** [Wu00]. **heaps** [CC92, SSSM93]. **Helmholtz** [Sta95]. **Help** [Pan03]. **Here** [AKPSR16]. **Hereditary** [HHH<sup>+</sup>99]. **Heterogeneous** [ADKT12, BLMR03, BRT09, BDR<sup>+</sup>99,

CLR11, FZL<sup>+16</sup>, GGV12, GKSP99, GDDM17, HGH12, IDS<sup>+05</sup>, LMZ99, LN05, RBS15, VDL<sup>+15</sup>, DAB<sup>+11</sup>). **Heuristic** [GS15, AS94]. **Heuristics** [FV99, SYL95]. **Hexagonal** [GVCS14]. **Hiding** [AD02]. **Hierarchical** [BGK00, CLZC11, GEBR<sup>+03</sup>, HA10, HGH12, Mic98, Wol95]. **Hierarchy** [Ada09, FDZ99, MPR18, NA10d, RRS12]. **High** [AFN11, EW10, EW11, GEL03, GBS<sup>+07</sup>, GS03, GDTF17, GK14, HM01, HL03, HGH12, Hin03, KB19, LCS<sup>+14</sup>, LY07, MG11, PAG08, PA99, PADB03, SHBG14, TSS<sup>+06</sup>, UVJ11, GC95, GV96, Sch97]. **High-Level** [GS03, GDTF17, HM01, HL03, HGH12, Hin03, SHBG14]. **High-Performance** [GK14, LCS<sup>+14</sup>]. **High-Productivity** [LY07]. **Higher** [HL00]. **Higher-Order** [HL00]. **Highly** [CLR11, RV98, Vid06]. **HirondML** [CRV08]. **HMC** [LC14]. **HMC-SIM** [LC14]. **Holes** [MCI<sup>+01</sup>]. **Homomorphic** [HT99]. **homomorphisms** [Col95, GDH96]. **Honeycomb** [BBBL04, CMS99, MLY99, YMZL04a, YMZL04b]. **Hop** [EFZ98]. **Hosted** [DJMN13]. **Hot** [ST97]. **Hot-Potato** [ST97]. **Hough** [Pan94]. **HPC** [CLT13, CLZC11, CLR11, FOCK15]. **HPCS** [LY07]. **HPF** [Bra00, Guo01]. **HPF-Like** [Guo01]. **Huffman** [KLN04, LP94]. **Hut** [BGLM05]. **Hybrid** [GKS08, KHAM04, LC14, SFHW11]. **Hybrid-Parallel** [SFHW11]. **Hyper** [CQS16]. **Hyper-Buttery** [CQS16]. **Hypercomputation** [GB12, Sta12, Syr13b]. **Hypercube** [IÖ98, KKS00, kLCL20, Nin20, RV98, WD03, ZXY20, Ber92, RT92, RSS95, Wu95a, Man91]. **Hypercube-Like** [kLCL20]. **Hypercubes** [AH98, BBBL04, FPP98, HY18, KSAOK05, KMY97, RS98b, SV00, Ste12, WW19, YL10, ZXY21, ZZL<sup>+21</sup>, CF93, DGVG96, GP96, HK95b, KN92, Lat91, LS91, PPRZ93, Tel95, UN92, Zia95]. **hypercubic** [KP96]. **Hypergraphs** [BEGK00, KBGE07, LPL20]. **Hypermedia** [MRS04]. **Hypermeshes** [KKC98].

**I-P** [XU99]. **I/O** [Agu02, BKT95, Geo01, GKS08, LFC<sup>+10</sup>]. **ICGS** [Yan05]. **Identification** [NTV12]. **Idle** [IKMH09]. **II** [Ano04d, Cos03, Cos04]. **ILP** [Sol09a, TE04]. **Image** [Chu96, DEKS04, MTD98, VLR<sup>+03</sup>]. **Images** [MTD98, SPA04]. **Impact** [AP05, BL08, DPM<sup>+10</sup>, SKL10]. **imperfectly** [Xue96]. **Implement** [MMRT06]. **Implementation** [Ada07, AKP99, CF03, Dec21, Gav08, GB98, GBS<sup>+07</sup>, HKS01, KH02, LSF14, MMAL06, OTK15, Per21, SAJ10, YKLD14, AR95, GV96]. **Implementations** [CH03, HL02, Nit05, SCJ<sup>+10</sup>]. **Implementing** [CG98a, GHSJ94, KW19, MG11, PK08, BA95]. **implications** [DRS96]. **Importance** [Akl10, TB18, ZS08]. **Importance-Aware** [ZS08]. **Impossibility** [RS98a]. **Imprecise** [ZZL<sup>+21</sup>]. **Improve** [BNW07, GS15, Sol09a]. **Improved** [Gon09, JS06, JSYD07, LPP01, MV04, QM98, SCJ<sup>+10</sup>, Yan05, YDL91]. **Improvement** [CP98c, BK92]. **Improving** [CRY<sup>+03</sup>, IDS<sup>+05</sup>, MGBG07]. **Incomplete** [GCP99]. **Incompleteness** [AMN12]. **Incorporating** [NTG99]. **increase** [Dua94]. **Increasing** [ACK99, HW06]. **Incremental** [BEGK00, JJ96, Wu95b]. **incrementally** [Sri96]. **Independent** [BEGK00, CGW05, FS99, KBGE07, LF97, LZG<sup>+19</sup>]. **Independent-set** [CGW05]. **Index** [Ano98a, Ano99a, Ano00a, Ano01a, Ano02a, Ano03a, Ano04a, Ano05a, Ano06a, Ano07a, Ano08a, Ano09a, Ano10a, Ano11a, Ano12, Ano13, Ano14, Ano15, Ano16, Ano17, Ano18, Ano19, Ano20, Ano21, GZL<sup>+20</sup>]. **indexing** [BFCD94]. **Induced** [Ahn19a, RB13]. **Inducing** [Jon15]. **Inductive** [CCQ13]. **InfiniBand** [KLJ08]. **Influence** [KKFZ14]. **Information** [BKK94, GGH<sup>+04</sup>, NA07a, ZS08, FDFR93].

**Infrastructure**

[BS01, LO09, NDFM07, OL11, TDS99].

**Inherently** [Akl06a, Akl06b, CT94].**initialization** [HS93]. **Input**[GHF10, BF94]. **inputs** [BM95].**Insensitive** [BE03]. **Insertion** [CmL21].**Inspired** [ZMD15]. **Installation** [KHW05].**Instruction** [Jes06]. **Instruction-Level**[Jes06]. **Instructions** [Ano98g].**Instrumentation** [MCI<sup>+</sup>01]. **Integer**

[BGPT00, CD99, EW10, EW11, Ger18,

Pag13, BM95, GAL96b]. **Integrated**[MJ16]. **Integrating** [CWR21, RR08].**Integration** [HUZ06]. **Intel**

[MJ16, OTK15, Sol09b, ZHW09].

**Intelligence** [VMA11, YF18]. **Intelligent**[OLC<sup>+</sup>00, OKH<sup>+</sup>02]. **Intensive**[IDS<sup>+</sup>05, ZSLR21, Qia95]. **Interconnect**[AD02]. **Interconnection** [CS13, CQSY20a,

GP03, JS18, Lav02, Qiu07, RvGG01, RV98,

San03, AD92b, FK96, Fio93, GS94b, Wu96].

**Interconnects** [BK08]. **Interface**[DBK<sup>+</sup>09b]. **Intermediate** [BF02, GGL12].**International** [DMVT14]. **Internet**[AGLS12, CSK00]. **Internet-Based**[AGLS12]. **Interpolants** [KW06]. **Interval**

[AS19, MST21, AER93, Fla97, PB96].

**intractability** [AER94]. **Introduction**[Ano08h, GSS08]. **Intuitive** [Tor09].**Inversion** [Rag98, DT96]. **Invocation**[TT05]. **Invocations** [RR08]. **Irregular**

[Agr99, Bra00, CA99, RBS15, Trä09, WS03,

CSBS95]. **Island** [MGBG07]. **Iso** [GGS<sup>+</sup>15].**Iso-Quality** [GGS<sup>+</sup>15]. **Isolating** [BCS05].**Isomigration** [ABNP00]. **Issue** [Akl11b,

Akl14a, Ano06e, DMVT14, DT13, DT15,

FAMP12, GK14, HL03, Sta12, WKR14].

**Issues**[BDR<sup>+</sup>99, CDP<sup>+</sup>07, KHAM04, Pan03]. **item**[SV93]. **Iteration** [FNP17, FV16].**Iterations** [YS05a]. **Iterative**

[CA99, CLR11, KM09].

**Jacobi** [BOV15, KSHL14, OV06, Sol09a].**Janus** [Ger02]. **Java**[AGMM00, CSK00, Gam03, GPS03]. **Jini**[BS01]. **Job** [Aba04]. **jobs** [MSP95]. **Join**[BE03, BF94]. **joins** [TL91]. **Jordan** [RV96].**Josephus** [LH02]. **JPVM** [LGCH99].**K-selection** [Ber92]. **Karp** [DV95]. **Kautz**[DA93]. **kernel** [Gla93, HK03]. **Kernels**[KSHL14]. **Kerrighed** [VLR<sup>+</sup>03]. **Key**[NA07c, NA10b, NNA10]. **knapsack**[AQRW95]. **Kolmogorov** [Ada07].**Kronecker** [MWZ19]. **Krylov** [GCP99].**L** [ABB<sup>+</sup>03]. **L2** [AFN11]. **L2-Cache**[AFN11]. **Label** [AAH14, Bur21]. **LAM**[RšT06]. **LAM/MPI** [RšT06]. **Language**

[BGJ10, Deb97, DGRD03, GL05, GKS08,

Guo01, HL00, HHOM02, LY07, Sch05].

**Languages** [LY07, ROJ94]. **LAPACK**[MCR<sup>+</sup>17]. **Large** [BCQO99, BK09, CLT13,

CC17, EADN06, GJQ09, HSL09, JKRW08,

JKRW09, KHW05, LF14, LO09, Man91,

NA05, OL11, WKRJ10, WKR11, WKR13,

WKR14, WJ16, WGM<sup>+</sup>10, YKLD14, Yan05,ZS08, BHQ92, CFG94, HP92]. **Large-Scale**

[CLT13, GJQ09, HSL09, JKRW08, KHW05,

LO09, OL11, WKRJ10, WKR11, WKR13,

WKR14, WGM<sup>+</sup>10, ZS08]. **largest**[OSW93]. **last** [Tro93]. **Latency**[AD02, AFN11, Jes93, SW08]. **Latent**[KY06]. **Lattice**[PKW<sup>+</sup>03, ZHW09, DM96, OTK15].**lattice-based** [DM96]. **Lattices** [KLW10].**Laws** [CWR21]. **Layer** [GHS97]. **Layered**[MDAT17]. **Layout** [EFZ98, KKKL18].**Layouts** [DLP03, BKT95]. **Lazy** [HHL<sup>+</sup>07].**Leader** [DDLV17, MR01, SM20, AJ96].**Leader-Based** [MR01]. **Leadership**[MMRT06]. **Leaf** [WXW20]. **Leaf-Sort**[WXW20]. **Leaping** [HUZ06]. **Learning**

[BCBB09, CmL19a, HIMD21, HL98b,

KKFZ14, YF18, ZJSY20]. **Learning-Based**[ZJSY20]. **least** [LP94]. **Legacy** [Gam07].**Legality** [BF05]. **Lemma** [JS18]. **Length**

[HoHqZS20, KLN04, KN06, Kop96].  
**Length-Limited** [KLN04].  
**Length-Restricted** [KN06]. **Level** [EADN06, GS03, GDTF17, GGL12, HM01, HL03, HGH12, Hin03, Jes06, PAG08, SHBG14, TSS<sup>+</sup>06, UVJ11, Gla93].  
**Leveraging** [WHTW10]. **Libraries** [CG01, Kru08, Mer15, TDS99]. **Library** [BGL03, Bra00, KH02, SHBG14, TSS<sup>+</sup>06].  
**Lifting** [Nit02]. **Lightweight** [YKLD14].  
**Like** [Guo01, kLCL20, CWR21, LV96].  
**Limitations** [BW16]. **Limited** [CE98, KLN04]. **Line** [CGS15, MBT15, Kri91]. **Linear** [AA21, BRT09, BW16, DKR91, ER99, GGHJ04, LPL20, RRM15, Sol09b, Tel95, TX98, Yan05, BE96, Gal96a, GMR92, HT94, MMMS94, Myo92, Oks95, Sto96, SJL94, TM93]. **Linearizability** [CBC03].  
**Linearizable** [FNP17, MNR96]. **Linearly** [MCCW15]. **Link** [MS99]. **Linked** [WJ12, DH94]. **Links** [GLMM06]. **Linux** [RST06]. **List** [HHL<sup>+</sup>07, Sib02, WJ12, Alb92, Col95, DH94, KY96]. **List-Based** [HHL<sup>+</sup>07].  
**Listing** [VP98]. **literal** [KCH92]. **Little** [Ahn19b, VDL<sup>+</sup>15]. **Live** [VRR20]. **LLC** [DGRD03]. **Load** [CWR21, CLR11, CLZ92, DLP03, EFZ98, EMPF04, GC06, GT00b, KMAG01, MRRV07, ST14, VH00, XL94].  
**Load-Balanced** [ST14]. **Load-Balancing** [MRRV07, VH00]. **Loads** [Rob11]. **Local** [CC17, LMT10, MM16, NTV12, ZXY20].  
**Local-Edge-Connectivity** [ZXY20].  
**Locality** [LTB01, VH00].  
**Locality-Preserving** [VH00]. **Locating** [Nag09, PPF12]. **Location** [DFRC01, SMK98]. **Lock** [APSF01]. **Log** [Bur21]. **Logarithm** [CLL16]. **Logarithmic** [SM20, OSW93]. **Logging** [Ahn19b]. **Logic** [FGK15, MMT17, CDZ96, KCH92]. **Logical** [APSF01]. **logP** [SV93]. **logspace** [Sar92].  
**Long** [CmL21]. **Long-Term** [CmL21].  
**Longest** [ACK99, Per21]. **look** [BOSW94].  
**Loop** [AL05, AGMM00, DSV97, HLJ97, RDK00, TFTY05, Xue97, AS94, GS94a, HT94, ROJ94]. **loop-based** [ROJ94]. **Loops** [LSW97, BFCD94, BL92, CRF95, DV97, PPRZ93, Xue96, van94, GL94]. **loosely** [CF91]. **Losses** [KE00]. **Low** [BAS96b, GGL12, HTHH05, LBD<sup>+</sup>14, LSF14, PT07, TB18, BKT92, DDT95, DGJS95].  
**low-cost** [DGJS95]. **Low-Density** [PT07].  
**Low-Level** [GGL12]. **Lower** [HT21, CL93, Gal96a, Kop96, Mac93, RLG91]. **LRU** [CmL21]. **LSTM** [Dec21]. **LU** [DDT95, GCP99, PBKP92]. **Lyapunov** [BCQO99, CHQ96]. **LZ** [De 04].  
**M** [Ram94]. **Mach** [LBD<sup>+</sup>14]. **Machine** [Ada07, CmL19a, GKSP99, HIMD21, OIH12, Ram94]. **Machines** [BK09, BNW07, Pag13, Gri92, NvG95, SMS95, TB94]. **Macro** [ADKT12, DDT17]. **Made** [Sax20].  
**Maekawa** [BK92]. **Maintaining** [AS19, ADG91]. **Maintenance** [DGB10, FL96]. **make** [BK92]. **Makespan** [AB16]. **Malicious** [AGLS12]. **Malleable** [VD03]. **Management** [CFR09, HMA99, Jes08, NDFM07, SMK98, SYR13a, JD92].  
**Managing** [ARA20, DJMN13].  
**Manipulating** [QRR97]. **manipulation** [Sah95]. **manuscripts** [Ano98g]. **Many** [AFN11, Jes08, KBGE07, MCCW15, UVJ11, MIJ16]. **Many-Core** [AFN11, Jes08, UVJ11]. **Map** [TH13].  
**Map-Reduce** [TH13]. **Mapped** [FVR20].  
**Mapping** [AB08, BLY<sup>+</sup>08, BRT09, BK08, CLZC11, EB98, UN92, GL94, GS95, HL96].  
**Mappings** [BMRGR13, LF97, DDR96, KP94].  
**MapReduce** [THAJ15]. **mark** [KCH92].  
**Marrella** [AR96]. **Massive** [MAP<sup>+</sup>19].  
**Massively** [BCL97, FUV99, LFC<sup>+</sup>10, SBR<sup>+</sup>17, CLZ92].  
**Master** [AGLS12, MRRV07, SB12].  
**Master-Slave** [MRRV07, SB12].  
**Master-Worker** [AGLS12]. **matched** [VLL<sup>+</sup>91]. **Matching**

[AMC18, BGK<sup>+</sup>98, BMFU18, CP12, CL13, CLM<sup>+</sup>16, Hsu93, HT99, MMCW18, MS01b, Raj02, XUZO2, ZXLY20, ZZZY21, ZMZZ20, ZMZZ21, Chu96, Hag95, YDL91].

**Materialized** [JL05]. **Mathematical** [Per21, Sza12, Vio94]. **Matrices** [Jai99, DT96, RV96]. **Matrix** [ACCLS14, Box09, FV16, Fuj08, GZW16, HT98, LSF14, SFHW11, SAJ10, WJ16, Lin92, MP93]. **Matrix-Vector** [Fuj08, GZW16, SFHW11]. **max** [CC92, BCD95]. **Maximal** [BBF05, BEGK00, CLM<sup>+</sup>16, FS99, GGHJ04, KBGE07, MB98, NTHK17, ZXY20, YDL91]. **Maximum** [HC02, Hag92, PD95]. **MCMC** [ZN13]. **MD** [HTHH05]. **Measured** [HRH18]. **Mechanism** [CFM<sup>+</sup>99, GC06]. **Mechanisms** [JSYD07, Jon15, Pel06, VH00]. **Median** [Nag09]. **Mediator** [JL05]. **Medical** [MTD98, SPA04]. **MEDINA** [SBR<sup>+</sup>17]. **Medium** [TW01, VDL<sup>+</sup>15]. **Meertens** [CS95]. **memories** [VLL<sup>+</sup>91]. **Memory** [AL05, ABO06, BF97, BCS05, Cho98, CA99, DDLV17, FDZ99, GRS07, GPS03, GHF10, GKS08, GS97, HKS01, HK16, IT02, KE00, LPP01, LC14, LM00, OLC<sup>+</sup>00, OKH<sup>+</sup>02, Pag13, RRS12, SKL10, SWK<sup>+</sup>13, VH00, VH01, VP96, WR97, Yai08, CHQ96, DJM91, DGJS95, FFSY93, GHSJ94, HS93, JD92, MNR96, NvG95, PPRZ93, Sah95]. **Memristors** [FVR20]. **Merge** [ST14]. **Mesh** [AG98, BK08, DDS17, EWM04, HT98, KCPP00, MB98, Ran05, San03, ST97, Tan09, Chl92, CR95, Fra93b, FY93, HS96, HP92, KY96, Kri91, KN95, Mac95, MB95, SC96, XL94, JS06, LJ10]. **mesh-bus** [FY93, HS96]. **mesh-connected** [Chl92, Kri91]. **Meshe** [ZJ09]. **Meshes** [CQS11, FV99, PS98, YMZL04a, Bar93, BA95, BAS96a, BOSZ92, BOSW94, CM95, CL93, CH94, Chu96, KSS95, KRS93, KW92, LOSZ93, Nak95b, Sue95, WV95]. **Message** [Ahn19b, AP05, CA99, Her05, PA99, TW01, Yai08, BNKS93, BAS96b, BH93, PBKP92]. **Message-Buffer** [AP05]. **Message-Passing** [Her05, BNKS93, BH93]. **Messages** [KW19]. **Messy** [HL98a]. **Metacomputing** [Gam03, GL05, LFJ99, MS01a]. **Metadata** [KBFB01, ZYPGD08]. **Metaheuristics** [AIL16]. **Method** [AH00a, AH00b, CBV<sup>+</sup>05, CSK00, LG97, OK20, Pur06, TFTY05, Tan09, Yan05, DRS96, Sta95, XL94, OTK15]. **Methodologies** [GJQ09]. **methodology** [PRS95]. **Methods** [FAMP12, GCP99, KB05]. **Metric** [Fox13]. **Metrics** [DPM<sup>+</sup>10, DGT98]. **MIC** [MIJ16]. **microprocessors** [DGJS95]. **Microscopy** [BCMC<sup>+</sup>04]. **Microthreading** [Jes06]. **Middleware** [JSYD07, SS13]. **Migratable** [VD03]. **Migrating** [GM03]. **Migration** [CCR11, RB13]. **Migration-Induced** [RB13]. **Migrations** [CRV08]. **Miller** [DV95]. **Millions** [BBG<sup>+</sup>11]. **MIMD** [DDTV92, MMMS94]. **min** [CC92, BCD95]. **min-max** [CC92]. **Minimal** [DWS15, DVWZ99, HRH18, BH96, Oks95, SC96]. **Minimizing** [HL99, Hua06]. **Minimum** [AA21, DF99, DW07a, LP98, BM95, FL96, Zar97]. **Mining** [TH13, THAJ15]. **Minla** [Pet03]. **Misses** [RB13]. **Mixed** [BLMR03]. **ML** [Gav08]. **Mobile** [HT21, PMW<sup>+</sup>12, SMK98]. **Mobility** [CLH13, DTL05]. **Mock** [Sui17]. **mode** [Alb91]. **Model** [Agu02, Ald03, BVHR13, BNW07, CGW05, Deb97, DTST15, GZW16, GS99, GKS08, Guo01, GMCC05, Jes06, Jon15, KSAOK05, KSOK07, KSHL14, LL21, MGBG07, MIJ16, MDAT17, Ran05, RvW98, WR97, AD92a, DH94, GAL96b, GDC94, Mac93, SV93, WY92, Sch09]. **Model-Based** [Deb97, BNW07]. **Modeling** [BKW98, CP98a, DBK09a, KHW05, KB11, KE00, LDC08, ZSLC18]. **Modelling** [DJM91, HK16, NA05]. **Models** [BSM<sup>+</sup>16, BA01, JW07, KHAM04, TBV98, XLP12, Fra93a, GS94b, Mac95]. **Modified** [GS15]. **Modular**



[EW13, Gav08, LF97, DDR96]. **modulo** [BFCD94]. **Monitoring** [DBK<sup>+</sup>09b, GGV12, GKK14, RGM06, AD92a]. **monoid** [CC93]. **Monte** [HUZ06, MHC<sup>+</sup>04]. **Morphogenesis** [Mac12]. **morphological** [DJM91]. **Most** [VSS00]. **Moves** [MG09]. **MPI** [BBG<sup>+</sup>11, BIC05, CGS15, DBK<sup>+</sup>09b, FC05, GB98, GBS<sup>+</sup>07, LNLE00, Ran05, RšT06]. **MPI-FT** [LNLE00]. **MPICH** [RšT06]. **MR** [TH13]. **MR-ARM** [TH13]. **Multi** [AAH14, DDS17, DZ13, GZW16, LSW97, Len92, MGBG07, MKA98, OII12, RvGG01, SKL10, Sol09a, Sol09b, SHBG14, BH93, CL93, DGJS95, DAB<sup>+</sup>11, MSP95, TL91, ZN13]. **multi-chain** [ZN13]. **Multi-Core** [DZ13, SKL10, Sol09a, Sol09b, DAB<sup>+</sup>11]. **Multi-Dimensional** [LSW97, CL93]. **Multi-Disk** [DZ13]. **Multi-GPU** [GZW16, SHBG14]. **multi-joins** [TL91]. **Multi-Label** [AAH14]. **Multi-Mesh** [DDS17]. **multi-microprocessors** [DGJS95]. **Multi-Objective** [MGBG07]. **Multi-Organization** [OII12]. **Multi-Plate** [MKA98]. **multi-port** [BH93]. **multi-proposal** [ZN13]. **Multi-rate** [Len92]. **Multi-Stage** [RvGG01]. **multi-task** [MSP95]. **Multicast** [BF02, SV00, Dua93, YTL92]. **Multicomputers** [WD03, DDTV92, KY96, LH95, YTL92]. **Multicore** [ACCLS14, GR11, RRS12, SFHW11, WHTW10]. **Multicore-Based** [SFHW11]. **Multicores** [Ger18, GDDM17]. **Multidimensional** [FKB<sup>+</sup>99, WV95]. **multifolded** [Zia95]. **Multigrid** [HCD<sup>+</sup>19, SSK<sup>+</sup>18]. **Multiple** [DPM<sup>+</sup>10, DHBL06, EW11, EW13, FZL<sup>+</sup>16, San03, TLH11, Wu98, BOSZ92, BOSW94, SV93]. **Multiple-Bus** [Wu98]. **multiple-item** [SV93]. **multiplexed** [AD92b]. **Multiplication** [ACCLS14, Box09, EW10, EW11, Fuj08, GZW16, SFHW11, WJ16, DS97, Lin92]. **multiplicity** [DA93]. **Multipoint** [BBF05]. **multipole** [DRS96, Sta95]. **Multiprecision** [EW13]. **multiprocessing** [SYL95]. **Multiprocessor** [AKP99, BGK00, BDG97, CSBS95, EADN06, KMAG01, LZC<sup>+</sup>21, Mak09, MMTT12, MM16, RB13, TKE<sup>+</sup>08, Tho03, VKS99, CHQ96, Gri92, MSP95]. **Multiprocessors** [PP97, Trä09, VH00, VH01, ZJ09, Ber92, DDT95, GHSJ94, PBKP92, VP96]. **Multiprogrammed** [Vas03]. **Multisearch** [Jai99]. **Multitasking** [RR08]. **Multithreaded** [AKP99, CmL19a, CmL19b, CGK06, KMAG01, RBAA05, WJ12, YWJ03]. **Multithreading** [KET06, SW08, SLG04]. **Mutual** [IN99, KM02, KY06, Vid06, BK92, CM96]. **mutual-exclusion** [CM96]. **Myrinet** [Geo01, TW01]. **Myth** [Akl06c, GB12]. **n** [SF91, Fra93b, TM93]. **N-ary** [TM93]. **N-processor** [Fra93b]. **Nash** [DM12]. **Native** [WJ16]. **Natural** [DMVT14]. **NC** [Hag95, Sar92, SW93, VSS00, dGP92]. **NC-algorithms** [SW93]. **Near** [Kre97]. **Nearest** [Sax20]. **Nearly** [HL98b, DKR91]. **NEC** [ZHW09]. **Necessity** [BA01]. **Need** [SLG04]. **Negotiation** [LLD<sup>+</sup>03]. **Nehalem** [BDH<sup>+</sup>08, ZHW09]. **Neighbor** [LZC<sup>+</sup>21]. **Neighborhood** [DW07a, JADT02, LMT10]. **Neighbourhood** [FPP98, Qiu07]. **Nested** [HA10, RDK00, BFCD94, DV97, HT94, PPRZ93, Xue96]. **Nesterov** [OK20]. **Net** [ESSP01, ZTS<sup>+</sup>16, GSS08]. **Net-Console** [ESSP01]. **Nets** [HPP06]. **Network** [Ahn19a, BB09, BLY<sup>+</sup>08, BR19, BDDP98, BK09, BLL12, CLH13, DWH<sup>+</sup>06, DM12, GPP09, HSL09, JSYD07, KW19, Lav02, LDC08, LZS<sup>+</sup>18, MT16, MMAL06, MBT15, PMW<sup>+</sup>12, RJ21, Res97, SBR<sup>+</sup>17, VAP94, XLP12, Aln94, AD92b, FU92, GMR92, GC95, GS94b, MB95, Par92, Sri96, Wol99]. **Network-based** [Ahn19a].

**Network-On-Chip** [BLY<sup>+</sup>08]. **Networks** [AS19, AKPSR16, ACM19b, BD02, BBBL04, BGK<sup>+</sup>06, CKP00, CMS99, CC11, CM97, CDM<sup>+</sup>03, CS13, CQS16, CQSY20a, CC17, CLM<sup>+</sup>16, DDT99, DGB10, DR00, DPS00, DVWZ99, EFZ98, Far98, FVR20, FAMP12, GKMP05, GP03, HL99, HY19, HLJ97, JS18, JADT02, Jon15, KSOK07, Kme14, LG97, LLC11, kLCL20, LL21, LZY18, Mal97, MTD98, MCCW15, MV08a, NTV12, PV99, PV00, Qiu07, RvGG01, RV98, RV09, RDK00, Rob11, San03, SB15, SZH14, SŠZ04, Tur10, VRR20, WS03, ZK<sub>m</sub>ST18, ZSLR21, ZMZZ20, ZMZZ21, ZTP<sup>+</sup>08, ABIM93, BA91, BHQ92, CC93, DA93, Dua92, Dua94, FP93, FK96, FFSY93, Fio93, HS96, KP96, Man91, Pel92, Pel95, Sie96, Sin96, SF91, Wu96, XL94]. **Neural** [Kme14, MTD98, RJ21, Sie96]. **Newton** [FV16]. **Next** [Sch09]. **NIL** [Sie96]. **NOC** [BLY<sup>+</sup>08]. **Node** [GEL03, MLY99]. **Nodes** [Dev05, DBK<sup>+</sup>09b, KMY97, Wu95a]. **Noise** [HSL09, MAP<sup>+</sup>19]. **Non** [Fox13, PT07, SPA04, ZJ09]. **Non-Asymptotic** [PT07]. **Non-Rigid** [SPA04]. **Non-uniform** [ZJ09]. **Nondeterminism** [Kra01]. **nondeterministic** [Vir93]. **Nonlinear** [Akl03]. **Nonnegative** [FV16]. **NOR** [SX02]. **NOR-Circuits** [SX02]. **normal** [RV96]. **Normality** [GR99]. **Note** [Ada15, Akl11a, Akl11b, Akl12d, Akl12a, Akl12b, Akl12c, Akl13a, Akl13b, Akl13c, Akl13d, Akl14a, Akl14d, Akl14b, Akl14c, Akl15a, Akl15b, Akl15c, Akl15d, Akl16a, Akl16b, Akl16c, Akl16d, Akl17a, Akl17b, Ano97a, Ano97b, Ano97c, Ano98b, Ano98c, Ano98d, Ano98e, Ano98f, Ano99b, Ano99c, Ano99d, Ano00b, Ano00c, Ano01b, Ano01c, Ano02b, Ano02c, Ano03b, Ano04b, Ano04c, Ano04d, Ano05b, Ano05c, Ano06e, Ano06b, Ano06c, Ano06d, Ano06g, Ano06f, Ano07b, Ano07c, Ano07d, Ano07e, Ano07f, Ano07g, Ano08b, Ano08c, Ano08d, Ano08e, Ano08f, Ano08g, Ano09b, Ano09c, Ano09d, Ano09e, Ano09f, Ano10b, Ano10c, Ano10d, Ano10e, Ano11b, Ano11c, ACM19b, AKP99, BBL04, BET04, CD99, CBC03, CE98, Cos93, Cos95, Cos96a, Cos96b, Cos97, Cos99, Cos00, Cos01, Cos03, Cos04, DMVT14, DFRC01]. **Note** [DT11, DT13, DT15, FAMP12, GK17, GK14, HGH12, JKRW08, JKRW09, KBH03, LZG<sup>+</sup>19, Qiu10, Sta12, TA09a, WW19, WKRJ10, WKR11, WKR13, WKR14, YS05b, ZXLY20, CQS09, Kri91]. **Notifications** [LLD<sup>+</sup>03]. **Novel** [CC93, GZW16, Mar98]. **NP** [CCQ13, Sch09]. **NP-Complete** [Sch09]. **NTT** [MCDB12]. **NTT-Based** [MCDB12]. **NUMA** [ACCLS14]. **NUMA-Aware** [ACCLS14]. **Number** [KOKM14, LZG<sup>+</sup>19, DS97, RB93, Wu95a]. **numbers** [Fra93b]. **Numerical** [KB11, MV08b].

**O** [Agu02, BKT95, Geo01, GKS08, LFC<sup>+</sup>10, SF91]. **Object** [BCL97, FKB<sup>+</sup>99, MPR18, Qui00, Wan93]. **Object-Oriented** [BCL97, Qui00]. **Object-Relational** [FKB<sup>+</sup>99]. **Objective** [MGBG07, CF03, CRV08]. **Objects** [GR99]. **Observation** [CFM<sup>+</sup>99]. **Observing** [DPM<sup>+</sup>10]. **OCaml** [BCL12]. **OcamlP3L** [DLPW08]. **October** [BET04]. **octrees** [SJL94]. **Off** [CGS15, Geo01, IR16, Kri91, LP94]. **Off-Line** [CGS15, Kri91]. **Off-Processor** [Geo01]. **Offering** [XLP12]. **Offs** [DLP03]. **old** [RR91]. **Omega** [Fio93]. **OmpSs** [DAB<sup>+</sup>11]. **On-Chip** [CmL19a]. **One** [BIW11, BOV15, FV99, LMS98, NA10c, Pan97, Sib02, Sol09a, DDR96, KN95]. **One-Dimensional** [Sib02]. **One-Phase** [LMS98]. **One-Sided** [Sol09a]. **One-Step** [BIW11]. **One-Time** [NA10c]. **One-To-All** [FV99]. **one-to-one** [DDR96]. **One-Way** [Pan97]. **Online** [BMFU18, GKK14, PLR<sup>+</sup>95, dSJR<sup>+</sup>15]. **Onto** [BRT09, LH95, van94]. **Ontology**

[Sza12]. **Opacity** [Hea07]. **open** [IR95, GBS<sup>+</sup>07]. **OpenCL** [GDDM17, OTK15]. **OpenMP** [Car07, HA10, Mar03, Per21, Ran05, RBAA05]. **Operating** [Jes08, MJGR09, OKH<sup>+</sup>02, VLR<sup>+</sup>03]. **Operational** [HHOM02, RGM06]. **Operations** [Agu02, BIC05, Cho98, FNP17, Nit05, Trä09, BH93, CH96, SW93, TB94, RGM06]. **OPIOM** [Geo01]. **Optical** [AD02, CKP00, CC11, ER99, HQP98, KM02, LTZ98, PSSV02, QM98, RS97, AD92b, BAS96b, Qia95]. **Optimal** [AA21, BBL04, BBBL04, BH96, De 04, DWH<sup>+</sup>06, DV02, Dol98, EMPF04, FY93, GW94, HL98b, HT99, IK96, IÖ98, JADT02, KR98, KN06, Kme14, Kre97, KN92, Kru98, MS99, Mic98, NF06, RS98b, Sib02, SŠ03, Tur10, WSK16, XUZ02, XL94, YL10, dGP92, AS92, BNKS93, CC95, DKR91, JR96, LM97, NR95, PB96, Per94]. **Optimality** [BGK03, PV99, PV00, Sch93]. **Optimally** [Far98]. **optimistic** [MNR96]. **Optimization** [AB99, AB16, BKW98, CmL19b, DHBL06, GZW16, KSHL14, PKW<sup>+</sup>03, WJ12, XX20, YGM97, ZMD15, KS96]. **Optimizations** [GGL12, HZW08, KLJ08, KET06]. **Optimizing** [CSFK08, GKS<sup>+</sup>14, LSW97, MIJ16, ZSLR21]. **optimum** [GS94a]. **Opus** [LMZ99]. **Order** [AA21, Had08, HL00, Nov20, Pag13, Mac93, VAP94]. **order-preserving** [Mac93]. **ordered** [FDFR93, LH95]. **Orderings** [BOV15]. **orders** [AER93]. **Organization** [ABB<sup>+</sup>03, OII12, RGM06]. **Organization-Specific** [RGM06]. **Organizing** [KWDS03]. **Oriented** [APSF01, BCL97, Qui00]. **ORNL** [DBK09a]. **OROW** [NR95]. **OROW-PRAM** [NR95]. **Orthogonal** [TTV00]. **OTIS** [JS06, LJ10]. **OTIS-Mesh** [JS06, LJ10]. **Out-of-Card** [WJ16]. **out-of-order** [VAP94]. **Output** [MAP<sup>+</sup>19]. **Over-Subscribed** [RB13]. **Overcome** [SW08]. **Overhead** [Ahn19b, HRH18, MS05, BKT92, DDT95]. **Overlap** [SFHW11]. **Overlay** [MV08a, PFM<sup>+</sup>09]. **Overview** [ABB<sup>+</sup>03]. **Owned** [Aba04]. **P** [LTB01, BCD95, CCQ13, Gre93, XU99]. **P-complete** [BCD95, Gre93]. **P2P** [ZTP<sup>+</sup>08]. **Packet** [SBR<sup>+</sup>17, BHQ92]. **Pads** [NA10c]. **Page** [OLC<sup>+</sup>00]. **Page-Based** [OLC<sup>+</sup>00]. **Pair** [Kru98]. **Pairs** [VSS00]. **pairwise** [Par92]. **Pancake** [Lav02]. **Paper** [Syr13b]. **Papers** [Ano04d, BET04, Cos03, Cos04, KBH03, Nak95a]. **Paradigm** [SS13, LOSZ94]. **Parallel** [Agu02, AL05, AB99, Akl03, Akl06a, Akl06b, APY06, ARA20, ABNP00, ACK99, BS01, BE03, BGK<sup>+</sup>98, BVHR13, BOV15, BCQO99, BK09, BGK03, BGL03, BMSW04, BCL97, Box21, Bra00, BDG97, BNW07, BA01, BW16, BKW98, CBV<sup>+</sup>05, CC92, CG01, CD99, CG98a, CJN99, CS03, CLR11, CC17, Col95, CG97, CFL12, CG98b, DDS17, DZ13, DMS99, DLPW08, DFR01, DHBL06, DGRD03, EADN06, ESSP01, FUV99, FG02, FV16, FGK15, FR96, FAH03, GLMM06, GR11, Gam03, GZW16, GGV12, GV03, Gav08, GRS07, Ger02, GCP99, GB98, GHS97, GS03, GKS08, Guo01, GS97, GK03, GMCC05, HPP06, HM01, HL03, HGH12, HIMD21, HC02, HPP99, HHOM02, Hin03, HRH18, HHH<sup>+</sup>99, Hua06, IT02, IDS<sup>+</sup>05, JW07, Jai99, JS15, JS06, JD92, JKRW08, JKRW09, Jon15, KR98, KB19, KBFB01, KB11]. **Parallel** [KBGE07, KW06, LSW97, LMZ99, LCK02, LMS98, LPP01, LFC<sup>+</sup>10, LTB01, LSF14, LGHB07, MCDB12, MGBG07, MKA98, MTD98, MAP<sup>+</sup>19, MS01a, MS01b, NF06, NA05, NP04, Nit02, OK20, OV06, OII12, OKH<sup>+</sup>02, Pag13, PND02, PAG08, Per21, PD95, Pet03, PK04, PA99, PKW<sup>+</sup>03, PPV12, PRH<sup>+</sup>03, PT98, Rag98, Raj02, RJ21,

Res97, RBS15, RRS12, ST12, SFHW11, SX02, ST14, Sui17, SZJK11, SJL94, TTV00, Tan09, THAJ15, Tho03, TMKS16, TX98, VD03, VP98, VMA11, Vas03, Wan93, WKRJ10, WKR11, WKR13, WKR14, WHTW10, Wu95b, XX20, Yan05, ZN13, ZSLC18, ZLL04, ADS91, Alb91, AD92a, AD92b, BM95, BIL92, BH96, CDSS93, CU96, CLM93, CDZ96, CH96, CLZ92, CF95, CF91, DS97, DM96, Dor92, FL96, GI94, GS94a, GMR92, GS94b, GV96, GS95, HK95a].

**parallel** [Hsu93, IR95, IK96, JR96, KDK+93, KESH95, LV96, LP94, LM97, NRP+94, O'D94, OW92, PB96, PPRZ93, RP93, RV96, SBP94, Sta95, SF91, SMS95, TL91, TM93, Vio94, Wu96, XWF93, Zar97, Zia95, TB94].

**Parallel-Based** [ARA20].

**Parallel/Distributed** [NA05]. **Parallelism** [BLMR03, BGLM05, Cam08, GDH96, GDTF17, Mar03, Mar98, MG11, NA07a, PP01, RBAA05, Vas03, GDC94, KCH92, WY92]. **Parallelization** [AH00a, AH00b, Ano94, AGMM00, CJ01, DSV97, EB98, HA10, HTHH05, KE06, MHC+04, MMT17, Mas99, MMAL06, TA09b, AS94, BL92].

**Parallelizing** [Car07, DV97, HW06, NA10a, RvW98].

**parameter** [Wue09]. **parameters** [XL94].

**Parasites** [SZH14]. **PARBS** [Fra93a].

**Parentheses** [VP98, XUZ02]. **Parenthesis** [Tsa04]. **Parity** [PT07, GM92]. **PARM** [DF99]. **Parssse** [SZJK11]. **Part** [Ano04c, Ano04d, BET04, CP98a, CP98b, Cos03, Cos04, KBH03]. **Partial** [FV99, Her05, OK20, SMH03]. **partially** [LH95]. **Particles** [MG09]. **Partition** [NTHK17, GI94, Gal96a, JR96, RP93].

**partitionable** [KN92]. **Partitioned** [LFC+10]. **Partitioning** [PFM+09, BF94, CR95, GS95, NM96, XWF93]. **Partitions** [HHKM13]. **Passing** [CA99, Her05, Yai08, BNKS93, BH93, PBKP92]. **Path** [AA21, BSM+16, DLP03, EFZ98, FVR20, MS99, TTTY05, Wu00, YMZL04a, YMZL04b, RR91].

**Paths** [VSS00, DA93, LM97, TH94]. **Patience** [NF06]. **Pattern** [MS01b]. **Patterns** [CmL21, FG02]. **PDEs** [Gri92]. **Peak** [GGV12]. **Peer** [CDPT10, GEBR+03, PFM+09, TT05].

**Peer-To-Peer** [CDPT10, GEBR+03, PFM+09, TT05].

**Pentagrid** [MS09]. **Perfect** [BGK+98, VRR20, RP93]. **Perfectly** [ST14].

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**Permutation** [Box09, CJN99, HLJ97, PSSV02, Sue95, CL93, HK95a, Kri91].

**Permutations** [Pan97, AS92]. **Perpetual** [LR93]. **Petri** [HPP06]. **Phase** [Chi03, LMS98]. **Phenomena** [BLL12]. **Phi** [OTK15]. **philosophers** [Per94].

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CS03, CG97, EB98, ESSP01, GV03, Gav03, GS97, HPP06, Her05, KE00, LTB01, Lou01, CU96, CDZ96, Dor92, HT94, KCH92, LV96]. **Project** [LY07]. **Proof** [CM96, CP98b, GP03, HoHqZS20, O'D94]. **Proofs** [Gav03, LV96]. **Propagation** [Bur21, CDM<sup>+</sup>03, HL98b]. **Proper** [ACM19a]. **Properties** [CQSY20a]. **Proportionality** [VDL<sup>+</sup>15]. **proposal** [DAB<sup>+</sup>11, ZN13]. **Protein** [CFG04]. **PROTEUS** [CCCV04]. **Protocol** [CP98a]. **Protocol** [Ahn19a, Ahn19b, BM97, CP98a, CP98b, Chi03, KY06, TT05, MNR96]. **Protocols** [BF97, CDM<sup>+</sup>03, GHJ<sup>+</sup>08, NA10b, SM20, UKY09]. **Prototype** [GM04]. **Prototyping** [TKE<sup>+</sup>08]. **Provably** [CJN99]. **Provers** [HoHqZS20]. **Proving** [CU96]. **Proximity** [Ada09]. **Proxy** [TLH11]. **Pruning** [ZYPGD08]. **published** [Nak95a]. **Publishers** [LLD<sup>+</sup>03]. **Pure** [ST97, TT05]. **Purpose** [SAJ10]. **PVM** [LHCT96]. **pyramids** [Fio93]. **Python** [Hin03].

**QAP** [AIL16]. **QoS** [WD03]. **QR** [YKLD14, ZSLC18]. **QRQW** [AJ96]. **Quad** [BDH<sup>+</sup>08]. **Quad-Core** [BDH<sup>+</sup>08]. **Quadtree** [BKT95, SJL94]. **Quality** [GGS<sup>+</sup>15]. **Quantifying** [BK09]. **Quantitative** [KE00]. **Quantum** [Akl10, AsS19, CBV<sup>+</sup>05, NA07c, NA07a, NA10b, NNA10, NA10d, Qiu10, XX20, NA10a]. **quaternary** [DS97]. **Quasi** [HUZ06]. **Queries** [FKB<sup>+</sup>99, JL05]. **Query** [BKW98]. **Queue** [GGV12]. **Queueing** [BNW07]. **Queues** [FNP17, CH96]. **Queueing** [SB15].

**R** [Ram94]. **Radiative** [MIJ16]. **Radio** [BGK<sup>+</sup>06, BHQ92]. **radios** [RS96]. **Radix** [MG11]. **Rainbow** [HY18]. **Random** [DPS00, FVR20, KOKM14, Mal97, MT16, ST97, TB94, DMP94, Pel95, YDL94]. **Randomized** [FS99, KY06, LSF14, MMT12, MM16, DH94, JR96]. **Rank** [LSF14]. **Ranking** [BA91, GGS<sup>+</sup>15, Sib02, ZYPGD08, DH94, dGP92]. **Rapid** [TKE<sup>+</sup>08]. **rate** [Len92, VP96]. **Ratio** [Hua06, Tur10]. **Ratios** [BBL04, BGPT00]. **RCN** [GM92]. **reachable** [CFG94]. **Reaching** [VDL<sup>+</sup>15]. **Reaction** [MBT15]. **Reactions** [Cos15b]. **Read** [BKK94]. **ready** [Ano98g]. **Real** [AB99, Akl03, BA01, GGS<sup>+</sup>15, Mak09, Nag09, PPF12, ZJSY20, AD92a, CM96, CF91, SYL95]. **Real-Time** [AB99, Akl03, BA01, GGS<sup>+</sup>15, Mak09, ZJSY20, AD92a, CM96, SYL95]. **Reality** [Syr13b]. **realization** [Kop96]. **Realized** [FGK15]. **recognition** [NRP<sup>+</sup>94, Wan93]. **Recognizing** [NP04]. **Reconfigurable** [AD02, AD92b, EWM04, MAP<sup>+</sup>19, MB98, PL11, PAKM08, QM98, RS97, RSS95, SSK<sup>+</sup>18, TBV98, Aln94, BA91, BA95, BAS96a, Chu96, Fra93b, GC95, GS95, KSS95, LOSZ94, Mac95, MB95, Nak95a, Nak95b, OSZ91, PS93, Ram94, TM93]. **Reconfiguration** [CM95, RT92]. **reconstruction** [OW92, XWF93]. **Recovery** [KSAOK05]. **rectangle** [OSW93]. **Rectilinear** [MS99, SC96]. **recurrence** [Len92, Mon94, Xue91]. **recurrences** [BFCD94, CS95]. **Recurrent** [Sch09]. **recursions** [HL96]. **Recursive** [AH00a, AH00b, FG02, LG97, FK96]. **recursively** [NR95]. **Redistribution** [MRRV07]. **redistributions** [GHSJ94]. **Reduce** [GS97, TH13]. **Reducing** [BVHR13, RB13]. **Reduction** [LSW97, SW08, Jes93, SMS95]. **Reductions** [HPP06, HL99, Sar92]. **Redundancy** [SMH03, Dua94, PS93]. **redundant** [DS97]. **Refined** [KCH92]. **Refinement** [KLH<sup>+</sup>14, Mas99, Ran05, RRS12]. **reflected** [Sto96, TM93]. **Reflection** [NTG99]. **Register** [TE04, AQRW95]. **register-based** [AQRW95]. **Registration** [SPA04]. **Regular** [Ano04d, BMFU18, Cos03, Cos04, DT00, LZY18, MG09, Trä09]. **Regulated** [GLMM<sup>+</sup>04]. **Regulatory** [GLMM<sup>+</sup>04].

**Related**

[ACK99, CQS16, PL11, BM95, Man91].

**Relation** [GVCS14]. **Relational**[BKW98, FKB<sup>+</sup>99]. **relations** [BF94].**Relationships** [Trä09]. **Relativistic**[ANS12]. **Relativity** [AMN12]. **Relaxed**[DVWZ99, MV08a, RV09]. **Relaxed-Ring**[MV08a]. **Reliability**[AB16, LG97, LZC<sup>+</sup>21, LZS<sup>+</sup>18, XLP12,ZXY20, ZZL<sup>+</sup>21]. **Reliable**

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KSOK07, LJ10, Pan97, RS97, RV98, SV00,

ST97, SŠZ04, Ste12, WS03, WD03, ABIM93,

ARS93, CL93, Dua93, Fla97, GP96, Kri91,

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LN05, Mak09, MRRV07, MRS04, MMMT12,

MM16, Nit05, OII12, OKL11, SLG04,

TFTY05, VKS99, WSK16, YWJ03, ZSLC18,

AER93, DKR91, GG96, LH95, LHCT96,

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**Sender-Based** [Ahn19b]. **Sensitive**

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RvGG01, Wol99]. **Services**

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**Shapley** [GZL<sup>+</sup>20]. **Share** [Mak09]. **Shared**

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CHQ96, DJM91, DGJS95, MNR96, VP96].

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MHC<sup>+</sup>04, PA99, VH00, ZHW09].



**Simultaneous**

[Agu02, RB95, SLG04, SMS95]. **Single** [EB98, GHS97, VLR<sup>+</sup>03, VSS00, GI94, JR96]. **Single-Layer** [GHS97]. **Singular** [Nov20]. **Sisal** [CG98a]. **Site** [CFR09]. **Sites** [CFR09]. **Size** [BD02, CC11, CM97, DWH<sup>+</sup>06, XUZ02, BAS96a]. **Sizes** [EW11]. **SkelCL** [SHBG14]. **Skeletal** [DLPW08, DGRD03]. **Skeleton** [GB98, Nit05, PK08]. **Skeletons** [Ald03, ABG02, Ser01, BL08, BGK03, CFL12, Dan01, DTL05, HBL03, KC02, Nit02, PAG08, Zav01]. **Skew** [BE03]. **Skew-Insensitive** [BE03]. **skewed** [BF94]. **Slave** [MRRV07, SB12]. **slices** [SJL94]. **Sliding** [KKS00]. **Small** [DWH<sup>+</sup>06, Tan09, BM95]. **Smaller** [Sax20]. **Smallest** [UKY09]. **Smart** [CDM<sup>+</sup>03, SCF01]. **Smoother** [KSHL14]. **smoothing** [Gla93]. **Snap** [CDPT10, JADT02]. **Snap-Stabilizing** [CDPT10, JADT02]. **Social** [NTV12]. **Soft** [Mak09]. **Software** [ABB<sup>+</sup>03, Hin03, KSAOK05, Sui17, Ano98g, Sie96]. **Software-Based** [KSAOK05]. **Solution** [CA99, DW07b, NA10d, Rag98, Rob11, SSK<sup>+</sup>18, YMZL04a, YMZL04b, Gri92]. **Solutions** [DW07a, DW07b, Kre97]. **Solve** [MKA98]. **Solver** [LFC<sup>+</sup>10, ZLL04]. **Solvers** [BCQO99, IT02, San03, SSK<sup>+</sup>18, BE96]. **Solving** [CCCV04, CGW05, CHQ96, Kme14, MMMS94, SF91]. **Some** [GZL<sup>+</sup>20, LFJ99, SKN10, Vir93]. **Sort** [DZ12, Mer15, WXW20]. **Sorted** [Jai99]. **Sorting** [BB09, BR19, CG01, CD99, ER99, GS99, Ger18, JS18, LJ10, MG11, NF06, KSS95, KN95, KW92, Man91, MB95, Par92, Sue95]. **Space** [BW16, SDLM18, SZJK11, GL94, HL96]. **space-time** [GL94, HL96]. **Spaces** [Fox13]. **Spacetree** [WBUW14]. **Spanners** [Kru98, CK93, LS91]. **Spanning**

[DF99, LZY18, QM98, SKN10, FL96, Qia95, SS92, Zar97]. **Spans** [MPR18]. **SPar** [GDTF17]. **Sparse** [CA99, FDZ99, GZW16, HlMD21, KW06, Rag98, SFHW11, Yan05, Gri92, KESH95, Pel92, Pel95]. **Spatial** [MG09]. **Spatially** [DW07a, DW07b]. **Special** [Ano06e, DMVT14, DT13, DT15, FAMP12, GK14, GZL<sup>+</sup>20, HL03, Sta12, WKR14, RP93]. **Specific** [KSHL14, RGM06]. **Specification** [CP98a, CP98b, Cho98, Deb97]. **Specifications** [Her05]. **Specifunctions** [CS01]. **Specifying** [Xue91]. **Spectral** [Pet03]. **Speculative** [GV03, WY92]. **Speed** [BGPT00, Pur06]. **Speed-Up** [Pur06]. **Speedup** [AB99, IN99, KE00, SYR13a]. **Speedup-Aware** [SYR13a]. **SPL** [GKS<sup>+</sup>14]. **SPMD** [van94]. **SPOC** [BCL12]. **Spreading** [BLL12]. **SQL** [CGK06]. **Squad** [UKY09]. **Square** [QM98, IK96]. **SRS** [VD03]. **Stabilization** [Dol98, PV99, PV00]. **Stabilizing** [CDPT10, Chi03, CLM<sup>+</sup>16, DDT99, DGT98, DDLV17, Dev05, DWS15, GGH<sup>+</sup>04, GGHJ04, GHJ<sup>+</sup>08, HHKM13, JADT02, KY06, NTHK17, PT97, Tur10, SDLM18, SS92, TH94]. **Stable** [BCQO99, ST14]. **Stage** [RvGG01]. **STAPL** [TSS<sup>+</sup>06]. **Star** [CL13, MMCW18, Res97, RV98, CQS09, GP96]. **State** [DMNP11, KB19, SZJK11, UKY09]. **State-of-the-Art** [KB19]. **states** [AR96]. **Static** [BGK<sup>+</sup>06, GS97, Wol95, GAL96b, GDC94, GC95, KRS93, MSP95, SYL95]. **Station** [GKMP05]. **Status** [RGM06]. **Steady** [DMNP11]. **Steady-State** [DMNP11]. **Steiner** [ACM19b]. **Stencil** [GKS<sup>+</sup>14, GK14, KLH<sup>+</sup>14, SHBG14, WHTW10]. **Step** [BB09, BIW11, ADG91]. **Steps** [Bur21]. **Stepwise** [Mas99]. **Storage** [ABO06, DWH<sup>+</sup>06, PT07, VH01]. **Strassen** [EW11, GV96]. **Strategies** [BLMR03, DEKS04, ZZL<sup>+</sup>21, CLZ92, GG96]. **Strategy** [BCL97, GGV12, Mak09, CR95, CC93, KY96, LH95]. **Stream**

[BCL12, GSS08, GDTF17]. **streamlining** [PRS95]. **Streams** [FZL<sup>+</sup>16, GM03]. **strides** [VLL<sup>+</sup>91]. **Strings** [Tsa04, VP98]. **Strong** [HLH<sup>+</sup>17, ZXLY20, ZZZY21]. **Structure** [kLCL20, ZKmST18]. **Structured** [DDT99, MV08a, Ran05, WSK16, Wu96].

**Structures** [FAMP12, Gav08, LMT10, KP96]. **Studies** [ZTS<sup>+</sup>16]. **Study** [BGLM05, CDM<sup>+</sup>03, CFG04, DBK09a, Ger18, HTHH05, MG11, TW01, DDT95, ZN13]. **Sub** [OSW93]. **Sub-logarithmic** [OSW93]. **subarray** [PD95]. **Subcube** [IÖ98, Lat91, YL10, KN92]. **subgraph** [FU92]. **Subgraphs** [LZY18]. **Sublinear** [KR98]. **sublogarithmic** [Sri96]. **submesh** [KY96]. **Submission** [MHC<sup>+</sup>04].

**Subprograms** [Sol09b]. **Subscribed** [RB13]. **Subsequence** [Per21, LP94, PD95]. **Subspace** [GCP99]. **Substrate** [Ada07]. **Substructure** [kLCL20]. **Subtraction** [EW10, SCJ<sup>+</sup>10]. **Suffices** [EM98]. **suffix** [BH96]. **Suitable** [Tan09]. **Sum** [HC02].

**Summation** [Mic98, Fra93b]. **sums** [Nak95b]. **Sun** [HZW08]. **Super** [LPL20, Sri96, ZJSY20]. **Super-Resolution** [ZJSY20]. **Supercomputer** [CGW05]. **Supercomputers** [CCR11, Kra01]. **Supercube** [ARS93]. **Supercubes** [SH99]. **superprimitivity** [IK96]. **Support** [Bra00, Dan01, DGB10, Mar98, NKCS03, Qui00, CSBS95]. **Surface** [CQS11, CQS09].

**Survey** [AIL16, CZ20, GJQ09, SWK<sup>+</sup>13, DV97]. **Survivability** [KHAM04]. **SVD** [BOV15, OV06, Sol09a]. **SVP** [UVJ11]. **Sweep** [WGM<sup>+</sup>10]. **switch** [SF91]. **Switched** [IÖ98, PS98]. **Switches** [LTZ98]. **switching** [BAS96b]. **SX** [ZHW09]. **Symbolic** [CJ01, GV03, JSZM08].

**Symmetric** [CKP00, GP03, LTZ98, CFG94, SS92]. **Symmetrical** [UKY09]. **Symmetry** [XLP12]. **Synchronization** [APSF01, Chi03, GS97, PT97, RS98a, ST14, UKY09, VAP94].

**Synchronization-Free** [ST14]. **Synchronization-Oriented** [APSF01]. **Synchronizer** [JADT02]. **Synchronous** [BVHR13, CS03, Gav08, LTZ98, Sui17, VH00, CF95]. **Syntenic** [FAH03].

**Synthesis** [RR91, GW94]. **Synthesizing** [Myo92]. **Synthetic** [PPF12]. **System** [ABB<sup>+</sup>03, ER99, EADN06, Gam03, HIMD21, HTHH05, KMAG01, KHW05, LZC<sup>+</sup>21, MS01a, MJGR09, PAKM08, RB13, VLR<sup>+</sup>03, ZJSY20, ZSLC18, DS97, MNR96, Oks95, TM93, GMK13]. **System-Level** [EADN06]. **System-On-Chips** [PAKM08]. **Systematic** [MHKT05]. **SystemC** [SAJ10]. **Systems** [AL05, Ahn19a, Ahn19b, BIW11, BW16, CDPT10, CCA01, Cho98, Dol98, EADN06, FGK15, GR11, GEBR<sup>+</sup>03, GKK14, GJQ09, HZW08, HGH12, Jes08, KB19, KB11, LO09, LCS<sup>+</sup>14, LN05, LFC<sup>+</sup>10, Mak09, NA05, OL11, OKH<sup>+</sup>02, PFM<sup>+</sup>09, RBS15, RRS12, SFHW11, SWK<sup>+</sup>13, SHBG14, UVJ11, VD03, VLR<sup>+</sup>03, VMA11, Wu98, Yan05, ZHW09, AER94, BNKS93, BA95, BAS96b, BH93, CRF95, FMR05, MMMS94, Mon94, OSZ91, PS93, RLG91, TL91]. **Systolic** [ES92, EWM04, HKP<sup>+</sup>98, MCDB12, Tsa04, VP99, YKLD14, AS92, AQRW95, BE96, CC95, Gla93, Myo92, Oks95, Xue91].

**Systolic-Array** [MCDB12]. **T2** [HZW08]. **Table** [KLJ08]. **Tabu** [BMSW04]. **Tagged** [Ser01]. **Tagged-Token** [Ser01]. **Target** [BGJ10]. **Targeting** [ADKT12]. **Targets** [PMW<sup>+</sup>12]. **Task** [BLMR03, DMNP11, Don07, FOCK15, GDDM17, GK13, GS95, KRS15, KU09, LHCT96, LN05, LTB01, Mar03, dSJR<sup>+</sup>15, AER94, CL95, GG96, MSP95, PS93]. **Tasks** [LMZ99, Mak09, OKL11, SB12]. **Taxonomy** [Don07]. **technique** [Gri92, RT92].

**Techniques** [ARA20, Ano94, CJ01, DSV97, NTG99, OKH<sup>+</sup>02, SWK<sup>+</sup>13, CL95, FL96, RB95].

**Technological** [SKL10]. **Technology** [KKFZ14]. **Template** [BGL03, BGLM05, GM04, Raj02, Chu96, HBL03]. **Temporal** [AS19, CmL21, WHTW10]. **Tensor** [ACM19b]. **Term** [CmL21]. **Terminating** [Kul07]. **Terms** [LYW20]. **Testing** [Sui17, IK96]. **Text** [De 04]. **Their** [BD02, KSHL14, YWJ03, FK96, KP96, SSSM93]. **THEMIS** [KBFB01]. **Theorem** [HoHqZS20]. **Theoretical** [Agu02]. **Theories** [AMN12, Sch15]. **Theory** [CWR21, DMVT14, Gar14, Dua94, Vio94]. **these** [BW16]. **thinning** [DJM91]. **Thread** [ABNP00, CmL19b, SLG04]. **Threads** [CRV08]. **Three** [Akl06c, BCMC<sup>+</sup>04, Car07, FL96, KBG<sup>+</sup>13, YMZL04a, YMZL04b, MB95]. **Three-Dimensional** [BCMC<sup>+</sup>04]. **Tight** [Wu95a]. **Tighter** [DR00, TBV98]. **Tiled** [ZSLC18]. **Tiling** [DSV97, GVCS14, KS97, KLW10, Xue97]. **Time** [AB99, Akl03, BAS96a, BA01, CBC03, CL93, Cos15a, DR00, DMS99, DD99, DVWZ99, Dol98, GGHJ04, GGS<sup>+</sup>15, GS15, HW06, JSYD07, KS97, KR98, KY06, Kme14, LP98, Mak09, Mar98, MMRT06, MB98, Nag09, NA10c, Oks95, RRM15, RV09, SM20, VRR20, XUZ02, ZJSY20, AD92a, AER93, CM96, CHQ96, Gal96a, GL94, HL96, KS96, LP94, LJ95, MB95, Pan94, Pel92, PS93, SC96, SYL95]. **Time-Adaptive** [KY06]. **Time-Free** [MMRT06]. **Time-Increasing** [HW06]. **Time-minimal** [Oks95]. **Time-Relaxed** [DVWZ99, RV09]. **Time-size** [BAS96a]. **Time-To-Live** [VRR20]. **Timelike** [ANS12]. **Times** [HRH18, MRS04, RvGG01]. **timestamps** [Sin96]. **TLP** [Sol09a]. **Toeplitz** [Oks95]. **Token** [Ser01, KOKM14, DMP94]. **Tolerance** [CC11, GK13, LNLE00, NTG99, RT92]. **Tolerant** [LH02, MLY99, MV08a, Res97, RV98, RV09, SV00, VMA11, Wu98, ZXY20, ARS93, BK92, CM95, CH94, GV93, GP96]. **Tolerating** [MT16]. **Tool** [MKA98, AR96]. **Tools** [Pan03]. **Toolset** [WGM<sup>+</sup>10]. **Top** [CS03]. **Top-Down** [CS03]. **Topologies** [Had08, LDC08]. **Topology** [BL08, BK08, MV08a, VRR20]. **Tori** [BF02, CQS11, DKP98, DV02, YMZL04b]. **Toroidal** [PS98]. **Torus** [DR00, LZY18, MLY99, San03, YTL92]. **Tournament** [Wu00]. **Tours** [CDSS93]. **Toussaint** [Ada09]. **TPNC** [DMVT14]. **Trace** [CLT13]. **Track** [PMW<sup>+</sup>12]. **tracking** [JJ96]. **Trade** [DLP03, LP94]. **trade-off** [LP94]. **Trade-Offs** [DLP03]. **tradeoffs** [BAS96a, LJ95]. **Trading** [IR16, IT02]. **traffic** [AD92a, SF91]. **Training** [RJ21]. **Trajectory** [CBV<sup>+</sup>05]. **Transactional** [GHF10]. **Transfer** [JSYD07, MIJ16]. **Transform** [FUV99, Pan94, PA95, NA10a]. **Transformation** [BFCD94, BF05, Xue97]. **Transformations** [AGMM00, KKKL18]. **transforms** [BIL92, GHSJ94]. **Transitive** [GMR92, PL11, AIn94, JJ96]. **Translation** [BSM<sup>+</sup>16]. **Transmissions** [HT98, Pel92]. **Transparency** [Hea07]. **Transport** [Jon15]. **Transposition** [HT98]. **traversal** [GV93]. **Tree** [CKP00, CDPT10, CGR16, DGT98, DMNP11, HL99, IR95, JADT02, MHKT05, Nag09, PV99, PV00, Rob11, SKN10, XU99, XUZ02, YKLD14, FL96, LM97, Wu96, Zar97, dGP92]. **Tree-Based** [YKLD14]. **Tree-Shaped** [DMNP11]. **Trees** [BR19, BGPT00, BW16, DF99, DDLV17, JS15, KR98, LH02, LJ10, QM98, RRM15, SDLM18, VP99, Bar93, LP94, PLR<sup>+</sup>95, SS92, UN92]. **Triangle** [NTHK17]. **Triangular** [Rag98, DT96]. **Triangulation** [LPP01, RRS12]. **Trident** [SS05]. **Tridiagonal** [San03, BE96, MMMS94]. **Trilinos** [LBD<sup>+</sup>14]. **True** [SX02]. **Truthful** [GC06]. **Tuning** [CFL12, LTB01, MMJ<sup>+</sup>03, PA99, HIMD21]. **Turing** [FG02]. **Twentieth** [Akl11b]. **Two** [APY06, BGPT00, BMSW04, Chl92, DM12,

GGH<sup>+</sup>04, HHKM13, KSHL14, LLC11, Nov20, ZTS<sup>+</sup>16, CR95, KW92, OSZ91].

**Two-Dimensional**

[BMSW04, CR95, KW92, OSZ91].

**Two-Factor** [LLC11]. **Two-Player** [DM12].

**Typed** [GSS08]. **typesetting** [Ano98g].

**UltraSPARC** [HZW08]. **Unbounded**

[MT16, AQRW95]. **Uncertain** [HT21].

**Uncertainty** [Cos15a, GPP09].

**Undecidability** [AMN12]. **Unfriendly** [HHKM13]. **Unified**

[Qiu07, FFSY93, RP93]. **Uniform**

[Ano94, BGPT00, Dol98, BF94, Mon94,

Xue91, ZJ09]. **Uniformly** [CZ20]. **unifying**

[BOSW94, CU96, RR91]. **unimodular**

[Xue96]. **Unimodularity** [BL92]. **Unit**

[EW10]. **Units** [AIL16, GW94]. **Unity**

[CP98a, CP98b]. **Universal**

[Akl06c, MS09, NA07a, ZLL04].

**Universality** [FG02]. **Unlabeled** [DKP98].

**Unrelated** [OII12]. **unshuffle** [CC93].

**unshuffle-exchange** [CC93].

**Unstructured** [PFM<sup>+</sup>09, WLR95].

**Unsymmetric** [Yan05]. **Until** [MG09].

**update** [Tro93]. **update-last** [Tro93].

**updates** [FL96]. **Updating** [DF99].

**Upgrade** [DBK09a]. **Usability** [Pan03].

**Use** [CCA01, KHW05]. **Used** [VMA11].

**User** [LLC11]. **Using**

[AB08, ABG02, BGK00, BSM<sup>+</sup>16, BNW07,

Bur21, CP98a, CP98b, Cos15b, DDLV17,

EW11, Gam07, GAL96b, GT00b, HW06,

KW06, KHAM04, KE06, LF14, LG97,

MGBG07, MKA98, Mas99, MTD98, MCI<sup>+</sup>01,

MM16, NTG99, PPF12, PK04, QRR97,

Rag98, RvW98, SW08, SMH03, SHBG14,

VRR20, WJ12, Wol99, Wu00, WS03,

YKLD14, YF18, AR95, Ano98g, CS95, DS97,

GHSJ94, RB95, TKE<sup>+</sup>08, VP96]. **Uspensky**

[Ada07]. **Utilisation** [GGV12]. **Utility**

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[Nov20, ZN13]. **Values** [VRR20]. **Variable**

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[CS13]. **Vector** [Fox13, Fuj08, GZW16,

SFHW11, Lin92, ZHW09]. **Vectorization**

[Nov20]. **vectors** [DV97, VLL<sup>+</sup>91, VAP94].

**Vehicle** [GK03]. **Verification**

[BF97, CP98a, CP98b, GC06, HPP06,

NA10b, TLH11]. **Verifying** [AS19, GPS03].

**versatile** [Zia95]. **Versatility** [Ray21].

**Version** [HMA99, Sch97]. **Versus**

[CCQ13, CA99, NNA10]. **Vertex**

[Tur10, CFG94]. **Via**

[ADKT12, DBK09a, SS13, FV16, GDH96,

MCR<sup>+</sup>17, RSS95, KH02]. **Video** [CRY<sup>+</sup>03].

**Video-On-Demand** [CRY<sup>+</sup>03]. **Virtual**

[CFR09, DLP03, GKSP99, KCPP00,

RGM06, YKLD14]. **Virtualization** [FC05].

**Visibility** [HT21]. **vision** [AD92a].

**vision-aided** [AD92a]. **Visual**

[Pan03, XWF93]. **Visualization** [HK03].

**Visualized** [Fox13]. **Vital** [VSS00]. **VLSI**

[Jes93, Sch93]. **Volume** [Ano98a, Ano02a,

Ano03a, Ano04a, Ano05a, Ano06a, Ano07a,

Ano08a, Ano09a, Ano10a, Ano11a, Ano12,

Ano13, Ano14, Ano15, Ano16, Ano17,

Ano18, Ano19, Ano20, Ano21, RLG91].

**Voronoi** [Cos15b, DFRC01]. **Voting** [Pel06].

**vs** [CCR11]. **Vulnerability** [BD02].

**Wait** [FNP17, PT97]. **Wait-Free**

[FNP17, PT97]. **Waiting** [Hua06].

**Waksman** [BD02]. **watchman** [GS94b].

**Water** [WBUW14]. **Watermark**

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**Waves** [WBUW14]. **Way** [Pan97, Tis01].

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**Weakest** [CS01]. **Weakly** [NP04].

**Weather** [MV08b, MIJ16, Wol99]. **Web**

[ESSP01]. **Web-Based** [ESSP01]. **weight**

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[Tsa04, VP98, WSK16]. **Well-Formed**

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**Where** [KE00]. **While** [Cam08, GL94].  
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[PADB03, PT07]. **Window** [KKS00].  
**Winograd** [DV95]. **Wireless**  
[LLC11, TB18]. **Without**  
[APY06, BF02, NA07c, NA10c, Yai08, TB94].  
**Work** [De 04, KRS15, KLN04, LP94, Zar97].  
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