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Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: `beebe@math.utah.edu`, `beebe@acm.org`, `beebe@computer.org` (Internet)
WWW URL: `https://www.math.utah.edu/~beebe/`

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$(2m \pm 1)$ [HGS83b]. (d, k) [MR82]. (N, K) [KK86]. 1 [wu87b]. 1/2 [ZW87]. 2 [FLN89, Jes80a, KR82, RY82]. $2(\log_2 N) - 1$ [Lee85b]. 2/3 [ZW87]. $22n + 1$ [STR87]. $2m$ [PNH88]. 3 [WH88]. 4 [KW81, TPSS85]. $5.8n \log_2 n$ [CW80]. 8 [Kal83]. $[\lg N + 1]$ [CT84a]. ^{2} [DD81, Eti80, FM89]. $^{2.5}$ [DM84]. ^2p [SLS82]. ^{n} [HSE84]. AB [Bla83, Slo85]. D [Kak85, Kak83, LB88, SW82, WV87, WR81]. $d > t$ [LB88]. ℓ [Hoc83]. $GF(2^m)$ [Fen89, WTS+85, YRT84, Zho88]. $GF(P)$ [TKL86, HQR89]. $GF[p^n]$ [Eng81]. K [GM87, NHAT89, Agg86, BL84, CI88, CE87, Dav89, Lee82, LC87b]. L/U [JK82]. λT [CGMP87]. M [Bla83, Mor80, Slo85, WH80a, Wus81, GH83b, HGS83b, PNH88]. $m2$ [MM83a]. N [CS87, Er84, Esf89, Mor80, Wus81, AP89, AG81b, Bha83a, GH83b, Kha82, LM87a]. $n - 1/n$ [Nil84, Wen85, Can83]. $O(2^{0.304n})$ [Jia86]. $O(\log n)$ [BP85]. $O(n)$ [Sip82]. $O(n + k)$ [LD88]. $O(N^2/\log^{3/2} N)$ [SR81a]. $O(t^3 + |E|)$ [Sul88]. P [Tha82, Tha84b, TKL86, YF88, Fro83, GNK86, KM83b, Wus82]. r [GH83a, HGS83a]. s^2 [SSS89]. t [BV89, CA89, LB88, NGP86].

-Adic [Fro83, GNK86, KM83b]. **-an** [SGI89]. **-ary** [Er84]. **-Bit** [Kal83, Wus81, Mor80]. **-Cube** [Bha83a, AP89, CS87, Esf89]. **-D** [FLN89, KR82, wu87b]. **-EC** [LB88]. **-Error** [NGP86, BV89, LB88]. **-Function** [Tha84b]. **-Functions** [Tha82]. **-Graph** [WR81]. **-Level** [Wus82]. **-Nearest** [Lee82].

-Networks [MM83a]. **-optimal** [FM89]. **-Ordered** [WV87]. **-Out-of-** [GH83b, HGS83b, PNH88]. **-out-of-n** [BL84]. **-Ranges** [SW82]. **-Sequence** [WH80a]. **-Sequences** [Kak83]. **-TDA-diagnosable** [CA89]. **-UED** [LB88]. **-unidirectional** [LB88]. **-Valued** [KW81, YF88]. **-way** [SSS89, NHAT89].

1-out-of- [Kha82]. **1-out-of-3** [Gol84]. **10th** [Ano80a]. **11** [LGH80]. **11/780** [AP85]. **1981** [Ano82-28, Ano82-29, Ano82-59]. **1982** [Ano82-30, Ano82-31, Ano82-32]. **1983** [Ano82x, Ano82u, Ano82w, Ano82b, Ano82c]. **1987** [Ano87z].

2 [KP88]. **2-Dimensional** [LL84]. **249** [Ano80c]. **254** [Ano80d, Ano80e, Ano80f]. **256** [Ano80g]. **256K** [Tan84]. **29** [Ano80b].

30 [Ano81a]. **31** [Ano82a]. **32** [Ano83a]. **32-bit** [MBH89]. **33** [Ano84a]. **35** [Ano86b]. **36** [Ano87a]. **370** [Kob83, PMSB88]. **3rd** [Ano82j].

4th [Ano80c, Ano83j].

64K [IC80].

780 [AP85]. **7th** [Ano82d].

80 [Ano80h, Ano80i, Ano80j, Ano80k]. **81** [Ano81b, Ano81d]. **82** [Ano81c, Ano82e, Ano82g, Ano82h]. **83** [Ano82f, Ano83l].

A. [EA89a]. **A/D** [Yue80]. **Abstract** [MP83a, PL88, SBSM89, Wei88]. **Abstractions** [OK83, Oik87]. **Acceleration** [FS83]. **accelerator** [Mel89]. **Acceptable** [Cli80a]. **Access** [Bra83b, Bux83, CP82a, CP87b, CHL83, FT84, GFM83, GF87, HJ87, IS84, KP80a, KL82, LV82, MTMA85, PS85a, RG85, SN81, SH84, SR80, SR81b, Ten83, TV82, Cal88, CJ89, FHG88, GC89, KP88, MP89a, MG88, MW88, NK88a, PBL89]. **Accessibility** [AL85]. **Accessing** [ABK83]. **Accumulator** [SR86]. **Accurate** [LPI88, VM87b, GY89]. **Achieved** [Mar81]. **Acknowledgment** [Ano83c]. **Acquisition** [Cli80b]. **ACRITH** [Lan87]. **Active** [LM85, Uhr82]. **Activity** [ST86a, VZMBH89]. **ADA** [KUV85, VM87a]. **Adaptive** [HN84, JL85, Kum89, TRTN89]. **add** [BD89, Sto84]. **Addendum** [RTB81, Rob83]. **Adder** [MH80, Dor88]. **Adders** [BK82, CP87a, Cur80c, GHM87, LM82a, SM83, Bec88]. **Adding** [LD87]. **Addition** [FG82, Par88, TYY85]. **Additional** [Lau81]. **Address** [Nwa85]. **Addressable** [KK84b, SS82]. **Addressing** [De 82b, YTL87]. **Adic** [Fro83, GNK86, KM83b]. **Adjacencies** [HSE84]. **Adjacent** [RS85]. **Adjusting** [GC87]. **Advance** [Ano80h, Ano80i, Ano80j, Ano80k, Ano81b, Ano81d, Ano81c, Ano82e, Ano82g, Ano82h, Ano82f]. **Advantage** [NN87]. **Advertisement** [Ano84b, Ano84c]. **Aerospace** [PS83a]. **Against** [BS82]. **Aggregation** [BT86]. **Ahead** [KY89, Dor88]. **Aided** [RW84, Sin89]. **Algebra** [Sur81]. **Algebraic** [Che82b, Hon85, SY83, AL88, BC88, NH88]. **Algebras** [DB87, LL80]. **Algorithm** [ACGT84, ASP87, APD83, AT81, BA86, BSV83, BW80, BB87b, BS87a, Bla83, Car84, CE87, Che82a, CH85a, CP87b, DM84, Dah86, FTY87, Gaj81, GC80, Gel81, Goe81, GM87, HR87, HKR84, Hou87b, Hou87a, HRT$^+$84, Hua83, HA84, Jen81, Jia86, Jou86, Kam80, Kar84a, KK85, Kri84, KH83, Lak84, Lam83, LS82a, Lee87, LC87b, MTMA85, Mey84, MP83c, MI85, ML82, NN86, Niz84b, Niz84a, NS87, OE82, Pal86, Par81, RW81b, RB83b, RTB81, Rot86, Sas85, SBGS86, Slo85, Sto80b, WG80, WOH84, YM86b, AA88, AL88, ED88, JAM88, KPR88, LD88, LS88a, LD89, Man89,

NH88, Pin89, RI89, RJ89, RS88b, San88a, San88b, Sin89, STR88, Sri89, SRC85, Sul88, TYY85, TR88, Wan89, WZ89, lYM88]. **Algorithm-Based** [BA86, HA84, AL88]. **Algorithmic** [Hoc87, Ram86a, Ram86b, ST86a, VZMBH89]. **Algorithms** [Ano85d, AN84, AS87b, Bry86, But81, Car83, CS86a, CL84, CF80a, CW83, Coy80, DL86, DK86, DS83, Dem82, DV87, DL87, Eng81, FS83, GV84, GK85, Gue86, Hon81, HC82, IKP86, JA85, KR82, KN84, Lam83, LM82b, LW86a, Li87, Lo88, LR80, Maj85, Man85, MP87, Mol82a, MF86, Nak86, NS81, NS82b, OP84, OOB85, PR81b, RJ82, SW84, Tha84a, Tha84b, Tsa81, Tsa83, VR86, Wei82, YGZ+87, Zak85, AOES88, CI88, Che88b, CS89, Cra85, Fis88, Gel89, KT89b, LP89, MS88b, MS89, Muk89, PK88, Ram89, SS89c, WE83]. **Alignment** [FYAV87, LS88b]. **All-to-All** [Top89]. **Allocation** [CP82a, CS87, CL87, Cve87, LL83, MLT82, PB87, RW83, Sig82, Weg80, GC89, Gel89, KS89, San88a, San88b]. **Allocations** [KK84b]. **ALOHA** [Lam80, Tas83]. **Alternative** [Pat80, SD86a]. **alternatives** [ALL89]. **ALU** [PF82, Wu87a]. **Ambiguity** [Muk86]. **American** [Men84]. **Among** [DLC87, KS80a, KL82, YN83, dM88]. **Analog** [Cli80b, FTT+80, PC81, Sto80b, THH80]. **Analog-to-Digital** [FTT+80]. **Analysis** [AB80, AB82, ASKL81, AJ82, Agr83, AKS88, AO80, Ano81r, ASP87, AL81, AP85, BYH87, Bhu85, BT86, BFHW82, Bux83, CP82b, CI87, CFH81, Dav86, De 82b, DJ81, DK82, FH84, GW81, Har86, HI80, HS84, HT86, IO84, IDH86, JM87, KK87, KA89, KKS86, Lam80, Lee80, LV85, LC87a, MBC82, MTS89, Mol82a, Mol82b, Muz80, NS87, Pat82, Pra86b, PC81, SC87, Smi85, Smi80a, SS82, Sor85, TN81, TJB86, Tsa81, Tsa83, Wan82, WC83, WA85a, YA87, YBL89, BD89, BGY89, BL89, BI88, Cal88, CCF89, tCpS88, CMB88, CdL89, Coo89, Dub88, DT89, Fuk88, GH88, Gui89, HTT89, JS88, KR89b, Max88, NT88, Noe89, RKH88, STR88, ST88b, SL89, WE83, YKL88]. **Analytic** [HT83, RN88, SS80, TB86, Sch89]. **Analytical** [CM87b]. **Analyzer** [Hla86]. **analyzers** [Max88]. **Ancestors** [Tsi86]. **AND-OR** [LS89c]. **Announcement** [Ano80h, Ano80i, Ano80j, Ano80k, Ano80l, Ano81b, Ano81d, Ano81c, Ano82i, Ano82e, Ano82g, Ano82h, Ano82f]. **Announcing** [Ano82j]. **Annual** [Ano82-60]. **Anomalies** [LW86a]. **Anomalous** [LMP82]. **API** [SK85, dJvdG88]. **Application** [Ano85y, Ano87x, CH82a, CL80, DTF80, KH83, LR80, SCP+81, SL86, Sta85, TS84a, VHD82, Zhi84, Esf89, Kap89, NK88b, RN88, SL89, Thi89]. **Applications** [Ano80x, Ano81u, Ano81v, Ano82u, Ano82v, Ano82w, BCR83, CSR86, Cha80, CLH84, HZ81, Hua83, IC80, Jul80, KF80, Kan84, KK84c, Kon86, KAGER82, Lun87, MLB87, Pra80, PTC86, SLS82, Smi81a, Sto84, KW89, Kum88, LM88b]. **Approach** [Abr82, AM85, AKT86, Agr81, AGH+82, ABT82, BSMS81, Bes86, Bha83a, Bha83b, Bra83b, CH85b, DM81, DSK87, Fla82, GM82b, IPM82, JM87, Kar81, KS80b, Kor86, LP83, MG86, NKY+80, Pap83, RT85, RH87, Ros83, ST85, Sig82, SH81b, Sto80a, Til80, Tsa83, WC84, Weg80, WWS84, AK88, BW89a, JW89a, KK89, KW89, KS89, LZM89]. **Approaches** [SSF82, ST86a, LLJ89, VZMBH89]. **Approximate** [BGY89, NT88, Tow86]. **Approximating** [LR80]. **Approximation** [DLM86, Har86, KK85, Niz83]. **Approximations** [SGT86, Aky89]. **Arbiter** [BJ83, CAV86, SL89]. **Arbitrary** [HML84, WG80]. **Arbitration** [Cha87b, Gui89]. **Architectural** [Ano87c, HS88, RM83, VSHM82]. **Architecture** [AJ82, AAG+87, Ano81r, Ano82-60, AG82, BS86, BP84, BFHW82, CP82b, FH83, GBG89, GS86, HA86, Haw85,

Hen84, Hon85, HG87, IPM82, JTP85, KK82, KA87, KAGER82, Liu82, Liu84a, MLB87, PS83a, PR82, RM83, SBK85, SSB87, Shi82b, SWP86, SM82, SWK84, SG82, TL80, TRYS83, TLR83, VZ81, VBH+81, WM84, CNO+88, Con89, EA89b, Fen89, GW89, HTDR88, KHS88, KWFT88, MG88, NOYK88, PMSB88, Pol88, SGI89, TSM88, Tys88, MPPZ88]. **Architectures** [BPM+86, DGS80, GS87, GK85, KK80a, LF80, Lop84, LF87, MBC82, MTG+85, NJM83, NF84, NS87, Pra85a, Pra85b, Pra86a, RAE84, Red87a, Sei84, Str82, Veg84, WTS+85, HA88, RTY+88, SS89c, YJ89, YS89]. **Area** [Ame82, BPV83, BP85, Bux83, CGMP87, FT84, Kam87, KM87, KB84, LHPW85, LSW87, Pre83, RG85, WHT84, CBAP89, HA88, KP88, Ram88, RS88b, Sin88b, SR81a]. **Area-Time** [Pre83, WHT84]. **Arithmetic** [Agr80, AR83, Ano84f, AP85, BM86a, BR83a, Che82b, CVY83, CHH83, DDG80, GH83a, Gai85a, GNK86, HGS83a, HT80, HL86, HC82, Jen83, KUV85, KM84b, LZLH85, MK85, NJM83, NH85, Owe83, OI87b, SOA85, Sip84, SG80, Swa80, SCNS83, Tay82, TPSS85, Ulm83, ZB87, ZN80, Cos88, KM83a, Loz83, Man88, NPP88, Sco89]. **ARQ** [CL88]. **Array** [Agg86, AG81b, BVH83, Bha83a, Bok84, CIP87, Chu85, DV87, Ers85, Fla82, FHH+83, FYK87, Jes80a, Jes80b, KH86, KAGER82, LV82, Len85, LY83, LA85, MG86, Nak86, Nwa85, Pap83, PBL89, RV84, Ree80, SF84, TOM81, Ten83, VRF84, WBA83, Zak84, Cos88, FLN89, Hos89, KJC89, PK88, ST88a, SL88a, WCS89]. **Arrays** [AC84, Aga80, AS85, BM86b, BNM86, BK84, DM81, ES80, FK85, FR85, FK81, GKS84, Gor87, JMKN86, KB84, Kor86, KS83a, LL85, LW85, MT87, MF86, OS87, O'L87, OP84, Ozg86, PR81a, PF83, RT85, RFS86, RB83a, RB83b, Ros83, Ros85b, SKF83, Sas81, SM87, UV81, Uhr82, VR86, VS86a, YWW86, ZH85, Ata88, FS88, JK89, KR89a, KT89b, LLJ89, LJL89, LP88, Man89, OT89, SR88a, Sin88b, VR89b]. **Arrival** [CS85]. **Arrivals** [Sha81]. **Art** [Kar82]. **ary** [Er84]. **ASCA** [NOYK88]. **Aspects** [Fen85, Ram86a, Ram86b]. **Assertion** [PS83b]. **Assigning** [MTMA85]. **Assignment** [FT84, FYK87, Lau81, LL84, Lo88, NKY+80, PTT81, Rub81, Sas84, ST85, BS89a, CD88, CS89, DIN88, KK89, ST88a]. **Assignments** [Sin88a]. **Associative** [DL86, DGS80, Fet80, HNS84, SD87, Str82, CCWZ88, LD88]. **associativity** [HS89]. **Astronomical** [EHS80]. **Asymmetric** [HS81, Shi82a]. **Asymptotically** [KP80a]. **Asynchronous** [BM86a, CAV86, CG87, Hay81, HT82, Hol82a, Tha84a, Tha84b, WF83, WF80a, BC88, Coa88, San88a]. **atomic** [Blo88]. **ATP** [KP88]. **ATP-2** [KP88]. **attenuator** [CG88]. **Augmented** [AS82b, MS82, LL88]. **August** [Ano87z]. **Author** [BH80, Des81, GLL81, Mil85, Nil86, RTW80, Ros86, SM80, Smi86, SCA81, SCN86, Weg82]. **Authors** [Ano80-45, Ano82-54, Ano82-55, Ano83-32, Ano83-33, Ano83-34, Ano83-35, Ano84u, Ano84v, Ano84w, Ano84x, Ano84y, Ano84z, Ano84-27, Ano84-28, Ano84-29, Ano85p, Ano85q, Ano85r, Ano85s, Ano85t, Ano85u, Ano85v, Ano85w, Ano86u, Ano86v, Ano86w, Ano86x, Ano86y, Ano86z, Ano86-27, Ano86-28, Ano86-29, Ano86-30, Ano86-31, Ano87p, Ano87q, Ano87r, Ano87s, Ano87t, Ano87u, Ano87v]. **Autocorrelation** [Mor80, Wus81, Wus82]. **Automata** [PTC86, Wan81, WR81, HCMP89, HMC89, OM88, SKW88, ZMC89]. **Automated** [HP82, KW85, WW83]. **Automatic** [BCDM86, KS82a, SG83, ST86a, TJB86, WW83, VZMBH89]. **Autonomous** [MBN81]. **Autoscale** [TH82]. **availability** [GT88, MDG89]. **Available** [NF84]. **AVL** [Got81, Ell80]. **Avoiding** [Fos89]. **AXE** [OJ80].

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L [DD81, Eti80]. **L.** [EA89a]. **Labeling** [MTG+85]. **Ladders** [CF80a]. **LAN** [SYJ89, SYK89]. **Language** [AO80, De 82a, KAGER82, PW81, ACGK88, JC88, SBSM89]. **Languages** [AO80, Ano87c, Cra85, De 82b, LM82b, QKS85, TF82, Veg84, Wan81]. **LAN's** [ASP87]. **Large** [AF81, APD83, Coh85, DM81, DLM86, DF84, FK85, Hwa87, Met83, Pre83, QI85, RGA85, SL80, SR87, Wit81, WL81, YTL87, AJ88, AOES88, BBW88, DIY88, HA88, PKP89, Sin88b, YS89]. **large-grained** [AJ88]. **Large-Scale** [YTL87]. **Latch** [BJ83, Sav86, Fos89]. **Latched** [Cur80c]. **Latency** [CI87, SL86, CI89]. **Latent** [SBMM87]. **laxity** [HTT89]. **Layer** [CD88, PL84, Ric84]. **Layered** [KT85]. **Layout** [BK82, KH86, SOH+81, SS85b, UV81, SR81a, TS88b]. **Layouts** [Tri82]. **LBANC** [Lam83]. **learning** [OM88]. **Least** [Sto80b, GM88b]. **Lee** [CC89]. **Left** [Cha83b]. **Length** [AL85, BDW86, CM87a, Dan83, SB84, Wus82]. **lengths** [dM88]. **Lens** [FS81]. **Level** [AO80, BIO82, BF83, BF80, Bry84, De 82a, HTOS80, IC80, LC87a, Mey84, OK83, PS83b, PS85b, Ram86a, Ram86b, Smi80b, Smi81b, SAA87, VM87b, WB81, Wus82, Jou89, KM89a, LM88b, SBSM89, WCS89]. **LFSR** [Hla86, WM86]. **liable** [Hay84]. **Like** [HL82, Wai88]. **Likely** [Dah86]. **Lilith** [Coo89]. **Limit** [Vui83]. **Limitations** [FWT82, Owe83, Rhy84]. **Limited** [KT87, LY83]. **Limits** [LL81]. **Linda** [ACGK88]. **Line** [FYD84, IO83, OE82, Owe83, RB83b, Sam80, Smi87, Sto80b, TY87, ZB87, KM89b, WE83]. **Linear** [APD83, BR80, Che86b, CD86, Cle84, DV87, Ers85, FHG88, Gaj81, GNK86, PC81, PP87, RV84, RFS86, SCP+81, TC84, VR86, WK80, WM86, WM88a, WV87, WH80b, AL88, AOES88, BB89b, DD88a, KT89b, Mel89, NH88, PK88]. **Linearly** [MA86, FL88]. **Lines** [KS80a, YN83]. **Link** [IKT81, LC87a, Pra85b, Pra86a, Pro89]. **Link-Level** [LC87a]. **Linked** [DHH85]. **links** [YM88b]. **List** [Ano82-59, Ano84-30, Ano84-31, Ano85x, Ano86-32, Ano86a, Ano87o, Ano87w, Ano87y]. **lists** [Dav89]. **LMS** [MP83c]. **Load** [ABK83, BW89b, CA83, IBM82, KC87b, Lea86, SC89, WM85, Kum89, MTS89, SW89]. **Load-Sharing** [Lea86, SW89]. **Loading** [RW84]. **Local** [Ame82, Ano82d, BW89b, Bux83, Car84, CHL83, Coh85, DLSM81, Dav89, FT84, FYAV87, Gue86, Hwa87, Kam87, KM87, LCF89, LHPW85, RGA85, RG85, TV82, WFL82, YH84, YGZ+87, KHS88, KK89, KP88, Ram88, RN88, RS88b, WJ85]. **Local-Area** [Bux83]. **Locality** [Kob86]. **Locatability** [Kre87]. **Locatable** [GH80a]. **Located** [Met83]. **Locating** [IKT81]. **Location** [CD86, DHS85, GP86, KS80a, LSM81, RB83b, Wu87a, YN83]. **lock** [CJ89]. **Locked** [KSB85]. **Locking** [Lee80]. **Logarithm** [HL86, Kar84b, LA85, LC87b, SCNS83]. **Logarithmic** [LZLH85, TGJR88, ST88b]. **Logic** [Aga80, Ano81z, Ano83b, BG86a, Boc82, BNM86, Bra83a, BCDM86, CH82a, Cra85, Cri80, Cur80b, Cur80c, DM81, DDG80, Dao81, DHR80, Feu82, Fuj81, FK81, FT82, Goe81, GH80b, Hay86a, HO81, Hur81, Hur84, KW85, KM86, KT81, LM82a, LM87a, LS80, LA85, MC86, MH80, MS86, MG86, Muk86, MR86, MH81, Ozg86, Pal86, Pap83, PR81a, Por82, RT85, RB83a, RB83b, RR86, RW84, SKF83, Sas81, SY83, SM87, SOH+81, SGA81, SB85, Smi81a, Sto80a, SB80, TY87, TOM81, TC84, TJB86, WS84, WW83, YK82, YM86a, YWW86, ZW87, Zhi84, Bos88, Jha88, MKLC89, YM88a, Ano80a]. **logic/fault** [Bos88]. **Logical** [GCV80,

GMG84, HFPS82, Kar87, Kre87, DG89]. **Logics** [Hay86b]. **Long** [NF84]. **Look** [AM80, GMG84, KY89, Dor88]. **Look-Ahead** [KY89, Dor88]. **Look-Up** [AM80, GMG84]. **Lookahead** [Rhy84]. **Lookup** [Par87]. **Loop** [BW81a, Hwa87, RGA85, WOH84, WI84, MI89, PK88, PKP89, RS88b]. **Loop-Structured** [WI84]. **Looping** [SC87]. **Loops** [AG81a, BG84, CF80a, HL82, Kob84, LAS87]. **Loosely** [LF80]. **Loss** [FG82]. **LOTOS** [CFM+86]. **Low** [Gai85a, HTOS80, Kha84, KYSY80, TAF87, LPI88, NPP88]. **Low-Cost** [Gai85a, KYSY80, LPI88, NPP88]. **Low-Level** [HTOS80]. **Lower** [BNM86, BD80, DO85, DO86, NM82]. **Lowest** [Tsi86]. **LRU** [WM88b]. **LSI** [CL80, GCV80, LS80, RJ80, SOH+81, Wei80].

M. [MA89]. **Machine** [Ano80-46, Ano80g, Ano81-27, AK85, BH81, BYH87, Bha83b, GMLV84, GY86, GM87, Hon85, ORS82, QI85, RTY+88, SBSM89, ST86a, SA85, WR84, HM89, Jou89, NOYK88, VZMBH89, ACGK88]. **Machine-Independent** [Ano81-27, BH81, RTY+88]. **Machines** [BH84, CIP87, CHM87, Cul80, DLSM81, DS80, Gaj81, Has84, HP87, IKP86, Klu83, LM83, MAV84, Oik87, PK80, Sal80, SD86a, SD86b, SS85a, SL87, SCP+81, Tam80, UT87, WGT81, WC83, WR81, Yam80, BRG89, BF88, BS89c, Bur88, DD88c, Kap89, SGI89]. **Macro** [SGMP85]. **Macro-Based** [SGMP85]. **MAFT** [KWFT88]. **Magnetic** [BL80, BW81a, CLW80b, CLW80a, DGS80, Str82]. **Main** [ST87]. **Maintaining** [BL80]. **Maintenance** [Liu84b]. **Major** [BW81a]. **Major/Minor** [BW81a]. **Majority** [ZW87, YM88a, YF88]. **making** [Sta89]. **Malicious** [SR87, VM88]. **Management** [Ano81r, BFHW82, CP82b, QKS85, WFL82, ALL89, Bur88, LW88, RTY+88]. **Managing** [TS83]. **MANchester** [PGR86]. **MANIP** [WM84]. **Manipulation** [Bry86]. **Manipulations** [AN84]. **Manipulator** [AS82b, MS82, LL88]. **Mapping** [Bok81, LA87, MF86, RFS86, SE87, KT89b, LW89]. **March** [SR81b]. **Marginal** [Cha83a]. **Markov** [BT86, MG82, MAS85]. **Masking** [KC86, RT86, SY83, EA89a]. **Massive** [GMLV84, GY86]. **Massively** [Bat80, HG87]. **Matching** [ACGK88, ST85, WBA83]. **matrices** [USM89]. **Matrix** [APD83, Ebe87, GNK86, HA84, HC82, LR80, Mel87, MT87, O'L87, RV84, ST87, Tha84a, Tsa81, Twi83, VRF84, VR86, Wan81, EA89b, Fam88, JK89, LP88, VR89b]. **Matrix-Multiplication** [VRF84]. **Maximal** [Wus82]. **Maximal-Length** [Wus82]. **Maximally** [MI85]. **Maximizing** [Sav80c]. **Maximum** [Agg86, Bok84, Jia86, Kon86, LS88b, Kap89, PP88, Pro88]. **Mean** [CdL89, GK83, Smi85, Sto80b]. **Meaningful** [YM88a]. **Means** [Hla86, Tha82, DSH89]. **Measure** [MS81, YM87a, GT88]. **Measured** [Cha83a]. **Measurement** [Ame82, CI87, De 82a, FH84, FHH+83, IR86, PL83b, SL86, BM89, Mil88, SL88b]. **Measurement-Based** [CI87, IR86]. **Measurements** [AP85, WS88]. **Measures** [CGMP87, Man85, PC81, Smi80a, Sri87, Uhr82, Esf89, STR88]. **Measuring** [Kum88, NF84]. **Mechanical** [MSS82]. **Mechanism** [BI86, Cas86, Len85, SP82, GY89, Len88, LW88]. **Mechanisms** [BGM87, VM87b]. **Membership** [Ano85y, Ano87x, Til80]. **Memoriam** [Boo81]. **Memories** [BW81a, BR84, BD83, CLW80a, DL86, Fen85, HJ87, Hay80, KK84b, OJ85, PS85a, Pat82, RW81b, Ric86, SMV87, SN81, Smi87, SS82, SM82, SR80, SR81b, WvL85, BGM88, CCWZ88, FHG88, MP89a, MW88]. **Memory** [AS87a, Bai87, Bhu85, Bis85,

BL80, BS83, Cha80, CS80a, Che86a, CS86b, CLW80b, CLP81, CM87b, CHM87, Dao81, Dav80b, DGS80, DV83, Dun85, ES80, Fet80, GMLV84, GK83, GY86, GGK+83, Hag86, HNS84, HV87, IC80, IS84, Kan81, KF82, Kan84, KK84b, KS82a, KS86a, KYSY80, KL82, LV82, LV85, LJ87, MBCG83, Met82, MBR82, MAS84, NS87, Par86, Pat81, RW81a, RB83c, Sig82, Smi85, SD87, Str82, ST87, Tan84, Ten83, VRP83, Weg80, YPD82, AJ89, ALL89, CFP89, CI89, CMB88, FM88, Fuk88, LPI88, LD88, Noe89, PBL89, RTY+88, SV88, SD89a, SGI89, Soh89].
Memory-Based [CHM87].
Memory-Resident [Hag86]. **Merge** [KH83, McC85, SSS89]. **Merged** [Swa80].
Mergesort [KB85]. **Merging** [AS87a, Bil89, Kru83, Par81]. **Merit** [Aup83]. **Mersenne** [TKL86]. **Merwin** [Boo81]. **MESFET** [HM89]. **Mesh** [LSSS85, MS89, Pre83, Sto83, BP89, Car88, SB88, UR88, Wai88, WCS89].
Mesh-Connected [LSSS85, Pre83, Sto83, BP89, UR88, Wai88].
Meshes [SE87]. **Message** [DS87, FJ88, WA85b, Len88].
message-passing [Len88]. **Messages** [LM85]. **Metastable** [KC87a]. **Method** [Ano81y, Bes83, Che82c, Fro83, FM84, GH83b, Gla80, JL85, Moh85, OI87a, PS85a, PS83b, PA81, RY82, SL83a, Yam80, Irs88, MKLC89, PC89, SS88b]. **method-design** [MKLC89]. **Methodology** [HL84, IK82b, KH86, JP88]. **Methods** [BAR87, De 82b, HR87, Mur81, RS87, SD86a, UT87, WK80, LPI88]. **Metric** [JH80]. **metrical** [GM88b].
Microarchitecture [AP85]. **Microcode** [DLSM81, Fis81, GB83, MP83b, SG83].
Microcomputer [FTT+80, IC80, KH80].
Microcomputers [Wit81]. **microeconomic** [KS89]. **Micronet** [WV80].
Microprocessor [Abe84, BR83a, BCA80, Cli80b, CL80, De 83, EHS80, LF80, MLB87, NWLP82, RJ80, THH80, MBH89].
Microprocessor-Based [NWLP82].
Microprocessor-Controlled [RJ80].
Microprocessors [Ano80d, Ano80e, Ano80f, AG81b, AGL+80, Bha83a, BA84b, MB80, SH81b, TA80, SS88b].
Microprogram [Abb83, Ano81-27, BH81, MH81].
Microprogrammable [HTOS80, ZN80].
Microprogrammed [BIO82, Bis85, IK85, MAV84, RB83c].
Microprogramming [RA80].
Microprograms [IKI83, TTT81].
MICROS [WV80]. **might** [Fis88].
migration [SD89a]. **Migrations** [Sta81].
MIMD [BBB+82, GGK+83, MS82, SSK+81, UR88].
Min [Kri84]. **Min-Cut** [Kri84].
Minicomputers [AGL+80]. **Minimal** [CM87c, DTF80, IKT81, SB88, SB80, YM85, RB88, RI89]. **Minimally** [Pag80]. **Minimax** [ST85]. **Minimizability** [FGPT89].
Minimization [Bes86, Bis85, Car84, GMG84, IC82, RB83c, RY82, Rot86, Zhi84, NMN89]. **Minimize** [BDW86, II81]. **Minimizing** [ACGT84, FTY87, Yam80]. **Minimum** [BP85, Bus83, CP87a, CW83, FS88, GK83, II83, LM87a, LSW87, MS86, Nak87, PC89, Pro81, SM83, Sie85a, WWSW87, CHRR89, CBAP89, HTT89, Kap89]. **Minimum-Area** [LSW87]. **Minor** [BW81a]. **miss** [Thi89].
Mixed [CSR86, DS80, Hua83].
Mixed-Mode [DS80]. **Mixed-Radix** [CSR86, Hua83]. **Mobile** [GFM83, GM88b].
Mode [Ano81z, DHR80, DS80, TOM81, YM86a].
Model [Ary85, Bry84, CMS82, Che82b, CM87b, CHM87, De 83, HT86, IR86, LF85, LE80, MLT82, Mar84, MP83a, Mey84, MP83b, Ros85b, SS80, SY83, SS86, SN81, SL84, Smi85, WHT84, WA80, WS82b, WH80b, WK81, AK89, AL88, BC88, tCpS88, KM89a, MAS85, Sch89]. **Modeling**

[Ano85d, BL89, DGT84, FHH+83, JA85, KM87, KP87, MBCG83, MP89c, Niz83, PS87, RE80, SL88b, Wei82, DT89, HIT88, SL89, WS88]. **Models** [Bra83b, CG87, DLM86, DG89, GCV80, Gav87, HT82, HT83, IDH86, KBB86, Li87, MG82, MAS84, SS85a, SGT86, Sny81, SD87, TB86, Tow86, BBG88, GZ88, KM89b, RN88, SS89b]. **Modern** [Lin82]. **Modification** [Mar81, Sto80b]. **Modified** [Car88, Don84, NH88, TS88a]. **Modified-mesh** [Car88]. **Modular** [Abr82, ABT82, AGL+80, BK87, BS88, CAV86, FW88, HA86, JK80, KH80, Obe80, RV84, Sal80, SLJ88, Van86, VH84, PNH88]. **Module** [CH82a, NKY+80, SD80, Wal88]. **Modules** [FYK87, SGA81, ST87, WF80a, RMCF88]. **Moduli** [GMG84]. **Modulo** [Bla83, Jul80, RY82, Slo85, WH88]. **Modulo-** [RY82]. **modulus** [SK89]. **moments** [dM88]. **Monitoring** [SS87]. **monotone** [CHRR89]. **MOS** [Ano85d, CV84, Ram86b, Bry84, CL80, DB87, EZS82, GCV80, JA85, NC88a, Ram86a, SOH+81, TS84a, TS88b]. **Most** [Dah86]. **Movable** [GCW83]. **Move** [Len85, TL80]. **Movements** [Fla82]. **Moving** [Mos87]. **MP** [AG82, CS86b]. **MP/C** [AG82]. **MPG** [Ano81-27, BH81]. **MRU** [SR88c]. **MSF** [AS87b]. **MTEC** [EHS80]. **Muller** [DK89, FTY87, Pag80]. **multi** [Pro89]. **multi-hop** [Pro89]. **Multiaccess** [BW89b, DJ88, WJ85]. **Multibus** [LVF83]. **Multicache** [YYF85]. **multicast** [Gai89]. **Multicomputer** [AL82, BS86, IBM82, KK87, KK85, ST87, WM84, BF89, GM88a, KK88]. **Multicomputers** [NM87, VW84, RS88a]. **Multicopy** [Lee80]. **Multicriteria** [IPM82]. **Multidimensional** [CF80b, GS87, KS83a, Vai84, Vai86, Vai89, Ata88, PKP89]. **Multigrid** [CS86a]. **Multihop** [CP87b, CK87, CS89]. **Multilanguage** [BF88]. **Multilevel** [GT82, Kar87, Sil82, Sta81]. **multimegabit** [JP88]. **Multimicrocomputer** [RS83b, Ree84, WL81]. **Multimicroprocessor** [SLS82, SMN82]. **multimodule** [SL88b]. **multinode** [MI89]. **Multipipeline** [HX88, Sah84]. **multipipelines** [GZR89]. **Multiple** [AB80, AKT86, Aga80, AF81, Ano80a, Ano83q, Ano83b, BA86, BS87a, Bra83b, Cha87a, Cha80, CD86, CP87a, CF80a, Coy80, Cur80b, Cve87, Dav86, FT84, Hay86b, Hur84, HN80, IO84, Jha88, KT81, Kuo87, LVA82, LJ87, LM86, Mar84, MG82, Mor86, MR86, RT85, RS85, RAP87, RG85, SKF83, San89, Sas81, Sas85, SGA81, SD80, Tow86, VZ81, Van86, VSH89, WOH84, WW83, YPD83, Aky89, BB89a, BGY89, CMB88, Dub88, FW88, KK89, KP88, Max88, MG88, MAS85, RB89a, Sas89, SD89b, Tys88, YZ88]. **Multiple-** [VZ81]. **Multiple-Access** [RG85, MG88]. **Multiple-Bit** [Van86, VSH89]. **Multiple-Bus** [IO84, LVA82, LJ87, CMB88, KK89, MAS85, YZ88]. **multiple-disk** [RB89a]. **multiple-input** [Max88]. **Multiple-Output** [Dav86]. **Multiple-Processor** [BS87a, Cve87]. **Multiple-Read** [Cha80]. **Multiple-Stream** [YPD83]. **Multiple-Valued** [Ano80a, Ano83b, Cha87a, Hay86b, Hur84, KT81, Kuo87, Mor86, MR86, Sas81, Sas85, SGA81, WW83, BB89a, Sas89]. **multiple-values** [FW88]. **Multiple-way** [San89]. **Multiplexed** [NJM83]. **Multiplexers** [Pal86]. **Multiplexing** [Cli80b]. **Multiplication** [BD80, Jul80, LR80, MPPZ88, Mel87, Moh85, Nak86, RV84, Tsa81, VRF84, VR86, BS88, Fam88, JK89, Pin89, SS89c, TYY85, VR89b]. **Multiplications** [VSH89, WTS+85]. **Multiplicative** [TKL86]. **Multiplier** [BVH83, Gna83, Gna85, HRT+84, Joh80, MBH89, Pre83, RS86b, SRO84, STR87, Sip82, SR82, TY87, TH82, Tay82, Tay83, wu87b, FM89, NC88a, Smi89a, Zho88].

Multiplier/shifter [MBH89]. **Multipliers** [MSV80, SF84, YRT84, Che88b, Dad89, HTDR88, Wan89]. **Multiply** [PF83, ZG87]. **Multiport** [SMV87]. **multiprecision** [Sco89]. **Multiprocessed** [LAS87]. **Multiprocessing** [BDL83, WBA83]. **Multiprocessor** [AG82, BIO82, BYH87, BDW86, BD83, BBB+82, CS86a, CS87, CN82, DSK87, DS87, Dem82, Dim85, GS81, HV87, HZ81, IO84, Jen81, KK84b, KN84, KA87, LS84, LW86b, LC87a, MBC82, MG82, MBCG83, Pra85b, Pra86a, Sah84, SSB87, SR87, Sig82, SSF80, SB83, SWK84, Tow86, Weg80, YH86, YPD82, Agr88, AJ89, BBW88, BM89, CMB88, CC89, DSH89, Fuk88, GZ88, HTK89, LW88, LW89, RTY+88, SP89, TSS88, WG88, YBL89]. **Multiprocessor-Based** [LC87a]. **Multiprocessor/Computer** [AG82]. **Multiprocessors** [ASHK86, BB87a, CH84, Du85, DB82, KS83b, LVA82, Lun87, PKL80, Pat81, Pat82, RV86, SSS+83, Smi85, Wah84, YTL87, AP89, ALL89, BL89, Dub88, FM88, JW89b, PC89, SV88, SD89a, VSSG88, WS88]. **Multiprogrammed** [CS80a]. **Multiserver** [MK83b]. **Multistage** [Agr83, AL85, BT89, FW81, KS83b, KSW88, LSD+89, PL83a, PN85, PK80, SH87, WF80b, AKS88, tCpS88, Che88c, GM88a, GM89, KR89b, Lee89b, VR89a]. **Multistep** [Lee89a]. **Multiterm** [Bur84, Bur82]. **Multiterminal** [GL86]. **Multithreshold** [BZV86]. **Multitrunk** [CG87]. **Multivalued** [BZV86, CD86, Eti80, Mar86, PA81, Por82, RS86a, Ric86, Smi81a, Zhi84]. **Multiversion** [Her87]. **Multiway** [KB85]. **mutual** [Sin89]. **MVA** [Lam83]. **MVL** [Bes86]. **MVS** [Kob86, VI84].

n [BL84, DM84]. **N.** [Smi89a]. **NAND** [LM87a]. **Native** [UT87]. **NBS** [Ame82]. **NC** [CI88]. **Near** [GH83a, UT87, LD89]. **Near-Native** [UT87]. **near-optimal** [LD89]. **Near-Perfect** [GH83a]. **Nearest** [Chu85, Lee82, SE87]. **Nearest-Neighbor** [SE87]. **Negabinary** [Agr80, Yue80]. **Negabinary-Binary** [Agr80]. **Negative** [KM81]. **Neighbor** [Chu85, Lee82, SE87]. **nested** [PK88]. **Net** [SYK89, Smi80b, Smi81b]. **Nets** [GL86, Mol82b, BBG88, LM88b, SL89]. **Network** [AS82a, AS82b, Ame82, AL81, AL82, AS87b, BA84a, BP85, Bon83b, CP87b, CS86c, DLM86, EHM80, GF87, HT82, HZ81, II81, KM87, LSSS85, LL83, Lea86, Lee87, MS82, NS81, NS82b, Niz83, Niz84b, Niz84a, PR84, Pra83, Pra85a, Pra85b, Rud85, SS80, SSB87, Sez87, Ste83, TB86, WK81, WV80, WI84, WA85b, WF80c, WL81, WF81, WFL82, YL81, AP89, BP89, Ban88, BD89, Bil89, BT89, GM88a, HP89, KPR88, KR89b, LL88, LH88, LY89, LM89, LHC89, PL88, Pro88, Ram89, RS88b, SP89, San89, SR81a, Tys88, WJ85]. **network-based** [GM88a]. **networking** [HN88, HX88]. **Networks** [Agr83, AL85, Aky87, Ama83, BW89b, BG86a, BA83, Bhu85, BS87a, BR86, Bra86, BS87b, CCSW85, CH82a, CV83, CV84, CH84, CG87, CK87, CS80b, CFH81, CHL83, CM87b, DS87, DR85, DHS85, DJ81, DK82, Dot84, DHH85, EZS82, EH85, FW81, FT84, FYAV87, FF82, Fra81, FWT82, FH84, FJ88, GC87, Gel81, GFM83, GW81, GH80a, GH80b, Har86, Haw85, HO81, HT86, HC87, Hwa87, IKT81, IM87, IK82b, IO83, JLS80, JK80, Kam87, Kar87, KK87, KK80b, Kri84, KS83b, KSW88, Kub82, KDJ85, KJ86, LM82a, LM87a, Lam80, LL81, Lee85b, Lei85b, LC87a, LS89d, LHPW85, LM86, MM83a, Maz87, Mel87, MM83b, MM84, Nak87, NMB83, NM87, OS82, Obe80, Oru84, OOB85, OO87, PL83a, Par80, PN85, PK80, RGA85, RV86, RK86, RS83b, Ree84]. **Networks** [Rhy84, RG85, SW84, SL87, SS84, SH84, Sie80, Sie81, Sie85a, Sin88a, SB85, Sri87, SH87, TN81, Top89, TV82, Uhr82, Val83,

Von83, WC84, WF83, Wit81, WF80b, YA87, YH86, YH84, YGZ+87, AA88, AKS88, AK89, Aky89, BBG88, BGY89, Bil89, BN88, CG88, CH89, tCpS88, CL88, Che88c, CM89, CS89, CdL89, DK89, DD88b, Esf89, GH88, GM89, GM88b, HT88, JS88, JA88, JW89b, KHS88, KK89, KP88, LS88a, Lee89b, LSD+89, MI89, MKLC89, Pro89, Ram88, RN88, RK89, San88a, San88b, Ski88, Sri89, TS88a, TYZ88, VR89a, WB88, dM88, Ano82d]. **Neumann** [BE87]. **Ninth** [Ano82-60]. **NMOS** [FTT+80, THH80]. **no** [RM86]. **Nodal** [Niz83]. **Node** [EHM80, OK83]. **Nodes** [CP87b, GFM83, GF87]. **Noisy** [IM87]. **Non** [BB87a]. **Non-Uniform** [BB87a]. **Nonbinary** [Dao81, SOA85]. **nondeterminism** [Par89]. **nonequivalent** [AKS88]. **Nonfault** [Kre87]. **Nonlinear** [SSVV81, VSV81]. **Nonminimality** [Coy80]. **Nonnumeric** [BIO82]. **nonrectangular** [Che88c]. **Nonrepairable** [FM84]. **Nonrestoring** [Bus83]. **Nonuniform** [LP81, CMB88, Jou89]. **NOR** [LM87a]. **normal** [HTDR88, Wan89]. **Normalization** [ZB87, cLW88]. **Note** [Jou86, Mar85, NK87a, CCF89, CH89, Par89]. **Notes** [Par80]. **Notice** [Ano80-27, Ano80-28, Ano81-28, Ano82y, Ano82z, Ano82-27, Ano83o, Ano83p, Ano84g, Ano85e, Ano85f, Ano86e, Ano86f, Ano86g, Ano87e, Ano87f, Fen84b, Fen84a]. **Novel** [Bha83b, Bos88]. **NP** [NMN89]. **NP-complete** [NMN89]. **Number** [AS82b, CSR86, DDG80, DLM86, GMG84, Hua83, HML84, IK82a, Jen83, Jul80, Kod81, KM81, LM87a, Mar85, MK85, MP83c, OA83, Ram83, SM83, STR87, TGJR88, TRYS83, TCH+86, WG80, GM89, HMC89, RB88, WLC89]. **Numbers** [Fro83, Ger82, KM83b, STR87, Ulm83, Dad89, Par88]. **Numerical** [GV84, Kar81, SB85, Tsa83, GT88]. **NYU** [GGK+83].

O [KB85, LY83, PW81, RB89a, Sto89, WSR84, XS85]. **Object** [Fra83, RB89b]. **Object-Oriented** [RB89b]. **Objects** [SGB87, BR88]. **Observability** [Sav83a]. **Observations** [Mur81]. **Obstacles** [WWSW87]. **Obtaining** [MI85, RI89]. **OCR** [RJ80]. **Odd** [DDG80, Kan84, KH83, SOA85]. **Odd-Even** [KH83]. **Odd-Valued** [DDG80]. **Odd-Weight-Column** [Kan84]. **ODE** [BAR87]. **Office** [NWLP82]. **omega** [Bil89, Ste83]. **On-Chip** [KS86a, LCW81, Maz87]. **On-Line** [IO83, OE82, Owe83, RB83b, Sam80, Sto80b, TY87, ZB87, WE83]. **On-the-fly** [EL87]. **One** [AC84, CIP87, HCMP89, SKW88]. **One-Dimensional** [AC84, HCMP89, SKW88]. **One-Way** [CIP87]. **Only** [Dav80b, GK83, Sie85b]. **onto** [FYK87, SE87]. **Open** [CPG83, RR86, Jha88]. **Operands** [BVH83, PF82]. **Operating** [Ano87c, VI84, WV80]. **Operation** [GKS87]. **Operational** [DG86]. **Operations** [CP82a, Gue86, HA84, RFLS86, ST87, BF89, Ble89, NH88, SR88c, ZMC89]. **optic** [GC89]. **Optical** [Lei84, MP83c]. **Optimal** [Agg86, AS87a, Ary85, AH86, AT81, BPV83, BW80, BBP88, BP84, BP82, CA80, CW83, CH82b, CH83, DV87, Fam87, GT82, GCW83, GK85, KP80a, KLL87, Lau81, LS82a, LW85, MTMA85, MK83a, Man85, MB80, MD86, MG86, NS82a, Oik87, Pal86, Pap83, PTT81, Pre83, PL84, RW81b, RM86, Rub81, ST85, SLL87, Sin88a, Sri83, Sto89, TS86b, UV81, VR86, VR89b, WHT84, YKL88, Zak85, BP89, Bec88, FM89, KS89, LM88a, LD89, Sas89, SSS89, SW89]. **Optimality** [Val83]. **Optimally** [SSB87]. **Optimization** [AL85, ACGT84, CS80a, FYAV87, Gav87, HN80, KT85, PS83a, Sas84, Sil83, Tha82, TTT81, TKK86, YH84, BS89c, HS88, RI89]. **optimizations** [Pol88]. **Optimized** [TS88b]. **Optimizing** [BS83, Hoc83]. **Optimum**

[HO81, JH89, Rob83, TR88]. **OR-parallel** [Cra85]. **Order** [CE87, HP87, ZMC89]. **Ordered** [Fet80, WV87, LD88]. **Ordering** [Li87]. **Orderly** [KL82]. **Ordinary** [BR83a]. **Organization** [CP87b, LVF83, Soh89]. **Organizations** [MWM80, SG85a]. **Organized** [Dao81, DV83, Dun85]. **Oriented** [Abr82, Che86a, LF87, RB89b]. **Orrery** [ADG+85]. **Orthogonal** [NMB83, HTK89]. **Orthogonally** [MT87]. **Other** [O'L87, VS86b, Von83]. **our** [Ano80d, Ano80e, Ano80f]. **Out-of-Order** [HP87]. **Outcomes** [SS86]. **Outerplanar** [FJ88]. **Output** [ASHK86, Cur80a, Dav86, Gna83, Kar83, KS80a, Oik87, SD86b, Sas84, Sip82, YN83]. **Outputs** [Bha83b]. **Overflow** [Tay83]. **Overflow-Free** [Tay83]. **Overhead** [BNM86, JH80, Kha84, TAF87, CBAP89]. **overlap** [PP88]. **Overlapped** [VSH89]. **Overview** [Sie81].

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Same [ST86a, VZMBH89]. **Sampled** [Sto80b]. **sampling** [HCMP89]. **Sara** [RE80]. **Satellite** [BCA80]. **Satellite-Born** [BCA80]. **satisfying** [WB88]. **Save** [LM82a]. **SbED** [Kan84]. **Scale** [LL85, SL80, YTL87, PKP89]. **Scan** [CH85a, HS86, SD86a, MA89]. **Scanning** [VSH89]. **Scans** [Ble89]. **Scene** [AJ82]. **Schedule** [BDW86]. **Schedules** [AB86]. **Scheduling** [Ary85, BSV83, BS87a, BDW86, BJS80, DS83, EHM80, Fis81, GF87, GKS87, GB83, KN84, KK85, KS86b, LM87b, Man84, MA86, PK87, RW81b, RSZ89, Ros85a, Sah84, Sig82, Sri83, Sta85, VW84, VM87b, Weg80, ZRS87, BRG89, CNO+88, CKS88, GY89, HTT89, Pro89, SRC85, WJ85]. **Scheduling-Function-Based** [GF87]. **Scheme** [Adi84, ABK83, Bur84, CLW80a, Hag86, HJ87, KY89, KS86a, LSD+89, Oru84, PK87, RB82, SD80, YTY82, Bur82, HA88, LW89, Sin88b]. **Schemes** [FT84, KH83, Lee80, MS82, TS84b, UT86, WvL85, WV87, CL88]. **Schur** [Ebe87]. **Science** [Ano81-44, Ano81-45, Ano82-61]. **Scientific** [Abe84, KUV85, KS82b, HTK89, Kum88]. **scientific/engineering** [Kum88]. **Scope** [Moh85]. **Search** [BDL83, BW81a, CT84a, DL86, Ell80, Got81, NN87, Pra86b, WM84, Sto89]. **searches** [Sto89]. **Searching** [DGS80, Kru83, Str82]. **SEC** [Dao81, Dun85, Gai88b, Kan84]. **SEC/DED** [Gai88b]. **Secondary** [LV85, TS86b]. **Section** [Mic83]. **Secure**

[NK87a, ML88, NK88b].
secure/propagating [NK88b]. **Security** [KS83a]. **seek** [CCF89]. **seek-time** [CCF89]. **Segment** [Fro83, LP86]. **Segmented** [Rob85]. **selecting** [Miy89]. **Selection** [BS83, Car84, GM87, GMG84, WC84, SS89a]. **selector** [Kap89]. **Self** [BCR83, BC85, CL80, DM81, DMY85, FMM84, FM87, Gai85a, Gai85b, GC87, Gol84, HGS83b, HS85, HT88, HML84, Jen83, Kha82, KM84a, LS89a, Mic83, Mil82, NK87b, NS81, Pie87, PK87, RB83d, SSF80, SL83b, TS84a, TAF87, WGT81, BGW89, CKS88, DD88b, DD88c, Gai88a, Gai88c, HKR88, LZM89, MS88a, ML88, NPP88, RSK88, Wan89]. **Self-Adjusting** [GC87]. **Self-Checking** [BC85, CL80, FM87, Gai85a, Gai85b, Gol84, HGS83b, HML84, Jen83, Kha82, Mil82, NK87b, RB83d, SL83b, DD88b, DD88c, Gai88a, Gai88c, ML88, NPP88]. **Self-Diagnosable** [SSF80]. **Self-Diagnosing** [WGT81]. **Self-Diagnosis** [HS85, LZM89]. **self-dual** [Wan89]. **self-fault** [HKR88]. **Self-Implicating** [DMY85]. **Self-Routing** [NS81, HT88]. **Self-Scheduling** [PK87]. **self-stabilize** [BGW89]. **Self-Stabilizing** [BC85, Mil82]. **Self-Synchronizing** [LS89a]. **Self-Test** [Mic83, TAF87, CKS88, MS88a, RSK88]. **Self-Testing** [BCR83, DM81, FMM84, KM84a, Pie87, TS84a]. **SELRAM** [Kap89]. **semantics** [Bou89]. **semi** [MAS85]. **semi-Markov** [MAS85]. **Semiconductor** [Che86a, FH86, PS85a, SR80, SR81b, MP89a]. **Semijoin** [CL84]. **Semisystolic** [Ers85]. **Sensed** [Ano80-46, Ano80g]. **Sensitive** [Hay80, SN81, SR80, MP89a]. **Separability** [WWS84]. **Separable** [Smi84]. **separate** [Gai88c]. **Separating** [BR80]. **Sequence** [Mor80, WH80a, Wus81, Reg88]. **Sequences** [Coh85, DTF80, Hon81, Kak83, Kob83, Kon86, PS85b, Wus82, Kak85, Man88]. **sequency** [Irs88]. **Sequential** [AB82, Bha83b, BCDM86, CH82a, Cul80, DS80, Has84, Hay81, IKP86, Kar84b, LSM81, LM83, Mor80, NK87a, Pra83, RS86b, Sal80, SD86a, SD86b, Sav80a, SGA81, Sip82, Sip84, SR82, Tam80, Twi83, VHD82, VH84, Wan81, Wus81, Yam80, DD88c, Len88, Smi89a, Wal88, YKL88]. **Sequential/Parallel** [Wan81]. **Serial** [Bat82, Dan84, Gna83, Gna85, Hla86, HRT+84, OJ85, RB80, Uhr82, wu87b, BS88, Dad89, Zho88]. **serial-input** [Dad89]. **Serial-Parallel** [Gna85, wu87b]. **Serial/Parallel** [Dan84]. **Server** [Sha81]. **Servers** [Har86, Aky89]. **Service** [CFM+86, Sha81, TS86b, RN88, WB88]. **Set** [CP87a, Dah86, GM82b, Jia86, Kee83, KA84, NS82b, RB83d, Til80, Coo89, SAA89]. **Sets** [AF81, DO85, DO86, FJW85, HRJ86, IKT81, KP80b, RT86, Sto80a, CHRR89, DD88a, KM89a]. **Several** [WHT84]. **Shared** [GGK+83, Mar84, NS87, YPD83, AJ89, ALL89, FM88, SV88, WS88]. **Shared-Memory** [NS87, ALL89, SV88]. **Sharing** [KC87b, Lea86, SC89, Wah84, WM85, JW89b, MTS89, SW89]. **Shift** [BR84, Che86b, CF80a, CH85a, Dan83, Dav80a, HSE84, Mor80, WM86, Wus81, WM88a]. **Shift-Register** [BR84, CF80a, Dan83]. **Shifted** [PF82]. **shifter** [MBH89]. **Shin** [CC89]. **Short** [BG86a, LHPW85, SB85]. **Short-Circuit** [SB85]. **Short-Packet** [LHPW85]. **Shortest** [Che82a, KLL87, Lak84, SBGS86, WWSW87, BP89]. **shortest-path** [BP89]. **Shuffle** [AS87b, DK82, KDJ85, KJ86, Par80, Ste83, TN81, WF81, BN88, HT88, LHC89, SR81a, TS88a]. **Shuffle-Exchange** [AS87b, KDJ85, KJ86, Ste83, WF81, BN88, LHC89, SR81a]. **Shuffle/Exchange** [DK82, Par80, TN81, TS88a]. **Shuffle/Exchange-Type** [Par80]. **Shuffling** [SS84]. **SIFT** [MSS82, MFW80]. **Sigma** [Sez87]. **Sign** [HL86, SCNS83, Ulm83, Vu85]. **Sign/Logarithm** [HL86, SCNS83]. **Signal** [BPM+86, HKSS86, KY82, Lee85a, LM87b,

LS89c, Mar87, Shi82b, THH80, ZN80, KT89a, MG88]. **Signals** [Sto80b]. **Signature** [Dav86, Has84, Hla86, LM86, Smi80a, Max88, MS88a]. **Signatured** [SS87]. **Signatures** [MM83b, MM84]. **Signed** [RS86b, Par88, Smi89a]. **signed-digit** [Par88]. **Significance** [FG82]. **SIMD** [LL88, NS82a, PK80, SS84, Sez87, SSK+81, WS82a, WR81]. **SIMD/MIMD** [SSK+81]. **similarity** [Muk89]. **Simple** [AG81a, HO81, Lam83, Oru84, RW83, Tsa83, VR83, dM88, Irs88]. **Simplex** [BB87b]. **Simplification** [MS86]. **Simplified** [SL83a, Ste83]. **Simulated** [GT80]. **Simulating** [MS88c]. **Simulation** [AM85, BS87b, CS86b, DJ81, GC87, JLS80, LL81, Ozg86, Ram86a, Ram86b, SWP86, VBH+81, YJ89, BD89, Bos88, Con89, GY89, SV88, Wal88]. **Simulator** [Abb83, Bry84]. **Simulators** [MH81]. **Single** [AF81, Cha80, DL87, EHM80, Hay80, HC87, IKT81, KF82, MBC82, MBR82, MM84, NJM83, Oik87, PS80, PK80, RS83a, RT86, Ram83, Ric84, SD86b, Sav80a, Sav80c, Shi82a, Sri87, VR83, BS89a, BGY89, BGM88, BL89, CJ89, DIN88, KJC89, LD89, NC88a, SAA89, TS88a]. **Single-and** [PK80]. **single-bus** [BL89]. **Single-Cell** [Hay80]. **Single-Chip** [PS80]. **Single-Error** [MBR82, BGM88]. **single-flow** [LD89]. **single-key-lock** [CJ89]. **Single-Layer** [Ric84]. **Single-Node** [EHM80]. **Single-Output** [SD86b]. **single-row** [BS89a, DIN88]. **Single-Stage** [HC87, TS88a]. **single-track** [KJC89]. **Single-Write** [Cha80]. **Situations** [DM83b, MM80]. **Size** [Bon83b, Bus83, DV87, KA84, MF86, Smi87, BB89a, Pro88, US88]. **Sizes** [LP81]. **Skew** [Ers85]. **Skewed** [HJ87]. **Skewing** [Kan81, WV87]. **Skip** [GHM87]. **Slash** [MK85, Sco89]. **Sliced** [SH81a, SH81b, VBH+81, Wu87a]. **Slicing** [LSW87]. **Slide** [PW81]. **Sliding** [LC87a]. **Sliding-Window** [LC87a]. **Slotted** [ASP87, KM87]. **SM3** [BS86]. **Small** [ISO85, DIY88, Par89]. **Smith** [MA89]. **Sneak** [Bra86, CH89]. **Society** [Ano80-30, Ano80-31, Ano82-28, Ano82-30, Ano82-31, Ano82-32, Ano80-32, Ano80-33, Ano80-34, Ano80-35, Ano80-36, Ano80-37, Ano80-38, Ano80-39, Ano80-40, Ano80-41, Ano80-42, Ano80-43, Ano80-44, Ano81-29, Ano81-30, Ano81-31, Ano81-32, Ano81-33, Ano81-34, Ano81-35, Ano81-36, Ano81-37, Ano81-38, Ano82-33, Ano82-34, Ano82-29, Ano82-35, Ano82-36, Ano82-37, Ano82-38, Ano82-39, Ano82-40, Ano82-41, Ano82-42, Ano82-43, Ano82-44, Ano83s, Ano83t, Ano83u, Ano83v, Ano83w, Ano83r, Ano83x, Ano83y, Ano83z, Ano83-27, Ano83-28, Ano83-29, Ano84h, Ano84i, Ano84j, Ano84k, Ano84l, Ano84m, Ano84n, Ano84o, Ano84p, Ano85g, Ano85h, Ano85i, Ano85j, Ano85k, Ano85l, Ano85m, Ano85n, Ano86h, Ano86i, Ano86j, Ano86k, Ano86l, Ano86m, Ano86n, Ano86o, Ano86p, Ano86q, Ano86r, Ano87-27, Ano87g]. **Society** [Ano87h, Ano87i, Ano87j, Ano87k, Ano87l, Ano87m, Boo81]. **Soft** [KC87b, WR84, lYM88]. **Software** [Ano80c, Ano81w, Ano81x, Cri82, McG80, MH81, VI84, AK88, KW89, Ano80-47, Ano80-48, Ano80-49]. **solitons** [SKW88]. **Solomon** [DC87, HRT+84, Liu82, Liu84a, OI87a, STD+85, SR88a]. **Solution** [Aky87, ATT81, APD83, BR83a, CPG83, ED83, FM84, GLS82, IO84, Lau81, LP86, ML82, Muk87, PTT81, Rub81, TT80, WH80b, AOES88, BBG88, CMB88, DD88a, Mel89, SW88]. **Solutions** [BG86b, Mey82, OM88]. **Solver** [Hoc83, Smi80b, Smi81b]. **Solvers** [DLC87]. **Solving** [Gaj81, Jia86, MTG+85, WM84, WK80]. **Some** [Ama83, DLSM81, Fen85, Jes80b, MWM80, MR82, Mur81, Von83, WC83]. **Sort** [KB85, RFLS86, FM88, NHAT89, SSS89]. **Sort-Based** [RFLS86]. **Sorted** [BL80].

Sorter [LCW81, CM88c]. **Sorting** [AS87a, Ano84e, BBW88, BP84, BP85, BLP84, CF80a, CLW80b, Dem85, DO85, DO86, JO84, JL85, Kru83, KH83, LSSS85, Lei85a, LVW85, Man85, OJ85, RFLS86, RSS85, Rud85, Sie85a, Tho83b, WC83, YTY82, Zak85, Bil89, HP89, Kap89, McC85, Ram88, SP89, SS89b]. **Space** [Car83, FJ88, FYSK84, LP83, RB83d, TR88]. **Space-Efficient** [FJ88]. **Spanning** [Chu85, DJ88, WWSW87]. **Spare** [DSH89]. **Sparse** [AJ89, APD83, Mel87, AOES88, DD88a, FS88, Mel89]. **Spatial** [LP83, VSHM82, MP89c]. **Speaking** [Aup83]. **Special** [Ano81t, Ano81r, Ano81s, Ano81-39, Ano81-40, Ano81-42, Ano81-43, Ano82-47, Ano82-48, Ano82-49, Ano82-50, Ano82-51, Ano82-52, Ano82-53, Ano83k, Ano83-31, Ano84e, Ano85a, Ano86c, Ano86d, Ano87c, Ano87z, CP82b, RFLS86, Shi87, Tor87, SW88, YM88a]. **Special-Function** [RFLS86]. **Specialized** [VS80]. **Specific** [NM87]. **Specification** [Boc82, BR83b, CFM+86, Hof85, KUV85, MSS82, Sta88a, PL88, Sta88b]. **Specifications** [Ano80-47, Ano80-48, Ano80-49]. **Specified** [CM87c, Yam80]. **Spectra** [Muz80]. **Spectral** [LM86, MM83b, MM84]. **Spectrum** [HS84, Mor86]. **Speed** [But81, Cha87b, CHL83, HFPS82, Maj85, OI87a, PKL80, SG80, TY87, UT86, WH80a, ZN80, ZG81, ZG87, NOYK88, PP88, TYY85]. **Speed-Efficiency-Complexity** [But81]. **Speedup** [ASHK86, EZL89, PB87]. **split** [KP88]. **Spot** [PN85, YTL87]. **Square** [AR82, Joh80, Maj85, OE82, ZG87]. **Square-Rooting** [Maj85]. **Squares** [Sto80b, Smi89b]. **Squaring** [Kar84b]. **Stability** [Tas83]. **stabilize** [BGW89]. **Stabilizing** [BC85, Mil82]. **Stable** [Tam80]. **stack** [KM89b]. **Stage** [AS82a, HC87, Lee85b, GM89, LH88, TS88a]. **Staged** [ABG85]. **Staging** [Sil82, Sil83]. **Stamping** [Her87]. **Standard** [YM86a, HTDR88]. **Star** [CHL83, Kam87, Kum89, WFL82]. **Stars** [KK87]. **startup** [Cal88]. **State** [CIP87, CHM87, Eng81, GK85, Hay81, Hla86, HT86, Kar82, Oik87, SC89, ST86a, WGT81, WR84, VZMBH89]. **State-Change** [SC89]. **State-of-the-Art** [Kar82]. **Statements** [BG84]. **States** [Tam80]. **Static** [LM87b, Maz87, RW84, Ski88]. **statically** [Nic89]. **Statistical** [BSV83, IBM82]. **Statistically** [Aup83]. **Statistics** [De 82a]. **Status** [Hur84]. **Steer** [LCW81]. **Steering** [Bis85]. **Stencils** [RAP87]. **Stiff** [BT86]. **Stochastic** [ACGT84, IDH86, LM88b, Mol82b, BBG88]. **Storage** [Bur88, CLW80a, GT82, HJ87, KP80a, LV85, QKS85, Sie85a, Sil82, TS86a, TS87, TS86b, WvL85, PBL89]. **Store** [Gel81]. **Store-and-Forward** [Gel81]. **Stored** [Hay81, Twi83]. **Stores** [BF83]. **Strader** [Smi89a]. **Strategies** [CN82, FS80, HI80, KDJ85, MTG+85, RM86, SC87, TS83, LM88a]. **Strategy** [BW89b, BB87a, FS81, LA87, SGMP85, Val83, McC85, MP89b, YKL88]. **Stream** [Sie85b, YPD83]. **Streams** [Hla86, SS87]. **String** [AN84, Bur84, Bur82]. **strings** [Muk89]. **Strongly** [ML88, NK87a, NC88b, JC88, NK88b]. **Structural** [Kak83, Lu82]. **Structure** [Dim85, Gau86, JK82, LF85, Met83, TB82, WvL85, WA85b, WL81, Hos89]. **Structured** [BR83b, De 82b, JLS80, SGA81, WI84]. **Structures** [AG81a, AS85, BA84a, Bon83a, DMY85, Ell85, GKS84, HKR87, KS82a, LSW87, TS86a, TS87, WF83, WS82b, Wit81, CICR88, LCF89]. **Stuck** [CD86, Kar83, KP80b, LM86, MM84, RB83d, RR86, YN84, Jha88]. **Stuck-At** [Kar83, KP80b, MM84, RB83d, YN84, LM86]. **Stuck-Fault** [CD86]. **Stuck-Open** [RR86, Jha88]. **Students** [Ano81-44, Ano81-45, Ano82-61]. **Study**

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FM84, Gaj81, Gau86, GP86, Gav87, GT83, GBG89, GM82b, GJ80, GT87, HS81, HS85, HZ81, HKR84, HC82, IK82a, IK82b, IO84, Iye84, IDH86, Jen81, KW81, KF82, Kar81, KK84b, KK80b, KC87a, KO87, KS80b, KM81, KP87, KK85, KSB87, KC87b, LF85, LYI87, LJ87, Lo88, MLT82, MK83a, MS81, MG82, MB80, MK85, Mey80, MK83b, ML82, NK87b, Nil84, OK83, OA83, PH86, PS83a, PR82, Ram83, RM86, RAP87, RB89b, RW84, SSVV81]. **Systems** [SL83a, ST85, Shi87, SC89, SSF80, SB83, Sny81, SH81a, Sta84, SBMM87, Ten83, TB86, Tow86, TCH$^+$86, TTB85, TS84b, UT86, VH84, VSV81, WM85, Wen85, Wor81, WL81, YM86b, YML86, YPD83, YPD82, Agr88, AOES88, Bou89, BGW89, CCF89, CMB88, CA89, DSH89, DT89, EZL89, Fuk88, Gai88a, GC89, GM88a, GS89, HMC89, HKR88, KK88, KS89, LM88a, LPI88, Mel89, MP89b, MAS85, MDG89, PP88, PBL89, PKP89, RKH88, RB89a, RN88, SW89, Sin89, SRC85, Sul88, US88, WJ85, YZ88, lYM88, Ano82j]. **Systolic** [AN84, AS85, BK84, BPM$^+$86, CM88a, CICR88, Cha84, Gue86, HQR89, IKP86, KY82, KLL87, LSSS85, LL85, LW85, MT87, MF86, Mor86, O'L87, Sav84, SSS89, YRT84, ZH85, wu87b, CM88c, Cos88, EA89b, FS88, KR89a, KT89b, LLJ89, LJL89, cLW88, LP88, Mel89, PL88, ST88a, SR88a, SO89, SS89c, Zho88].

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Signaevskii:1982:CMS

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