

# A Bibliography of Publications in *International Journal of Foundations of Computer Science*

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10 July 2020  
Version 1.76

## Title word cross-reference

**#P** [Zan91]. **#P-Completeness** [Zan91].  
 $(-\beta)$  [Dom12].  $(1, 0)$  [ZK19].  $(1, 2)$  [BZ13].  
 $(2 + p)$  [ZG13].  $(2, 2)$  [ST16].  $(2 \cdot t)$  [PT19].  
 $(3 \cdot t)$  [PT19].  $(3k + 1)$  [DZ00].  $(A, B)$  [JL01].  
 $(\delta, \alpha)$  [CCF09].  $(\delta, \gamma, \alpha)$  [FG08].  $(\delta, \kappa_\delta, \alpha)$   
[FG08].  $(n, k)$   
[WC13, CC98, CHYT14, HLHH06, YCL11].  
 $(n, n(n + 1))$  [NS98].  $(r, t)$  [WNF20]. 1  
[CHWX09, Dic93, LR04, TCT14]. 11 [LJ17].  
2 [AV96, BYP95, FFMW19, HKT00,  
HJP<sup>+</sup>13, JZ16, JW08, Leo03, Pri06,  
TSFZRP17, XZS16, XCX17, ŽM11].  $2^n$   
[CKZ17].  $2m$  [ZWCL14]. 3 [BYP95, DH96,  
JSPD03, KPS18, LJ17, SJ04, ST93, Tsi06]. 4  
[XC15, ZZC15].  $7/3$  [DSS15]. \*  
[MTVM15, ZLL20].  ${}_2$  [Joh00].  $A$  [XBE02].  
 $ab * c$  [KL03].  $AQ_n$  [XZZY19].  
 $\text{ASPACE}(\log \log n)$  [GP13].  $\beta$  [Shu11].  $c$   
[CDFK19].  $C^1$  [XBE02].  $CT\mathcal{L}$  [MTVM09].  
 $CT\mathcal{L}^*$  [MTVM09].  $\mathcal{I}_2$  [BW14].  $\mathcal{J}$  [BL14].  $\mathcal{R}$   
[BL14].  $D$   
[HLY<sup>+</sup>04, AE99, DG98, RS01, YW20].  $\ell$   
[DDHL11].  $f$  [DGL93].  $F_p + \nu F_p$  [WGF16].  
 $\frac{7}{3}$  [Ram05].  $g$  [ZLL20].  $G(2^m, 2)$  [YCTW10].  
 $G^{xy+}$  [AT15].  $G^{xy-}$  [BTO17].  $\text{GF}(2^n)$   
[WXF16].  $H$  [GMU15].  $K$   
[BT07, CHWX09, PV98, ZBS05, Aku06,  
AE99, BJD20, DDHL11, DG98, DGL93,  
EHS15, IZN99, INY07, KPS13, LMZC20,  
LZ12, MXY<sup>+</sup>04, Nak04, RS04, TCLS10,  
YTN01, YW20, ZZZ16, ZK19].  $K_{m,m}$   
[Kan15].  $L$  [ADD<sup>+</sup>18, PSS12].  $L(2, 1)$

[LLW18].  $L(j, k)$  [Cal15].  $L_p$  [CMR07].  $M$  [Jun14, PT18, PT19, Teh16a, Teh16b].  $\mathbf{F}_{2^{2m}}^*$  [ZWCL14].  $\mathbf{F}_d$  [YW20].  $\mathbf{Z}_{p^2}$  [HSS19].  $\mathbf{GF}(2)$  [BB99].  $\mathbf{UG}_b(n, n(n+1))$  [Noc98].  $\mu$  [DL12].  $N$  [AM09, Bed18, JM03, MGCvdIP20, PV98, INY07, LMZC20].  $O$  [Mal07].  $O(1)$  [ST99].  $O(n)$  [MM97].  $O(n^2)$  [Bad09].  $\omega$  [COT12, DI02, Fin12, Hon02, Hon07, KSV03, KMM06, Sel08, Sta05].  $P$  [AFO06, ARV07, BGMV08, BCC<sup>+</sup>11, BFM06, CD06, CCFS07, CVPV08, DI05, FOP05, Fre05, FO07, FIO08, FH11, GH07, IYD05, IW07, Iba11, ILT11, LZGN06, Luc09, Mad03, MDAPHPJ<sup>+</sup>11, NSVA12, PDPPJ11, Pău00, PPJR06, PPJR07, PPJS07, PPRPS11, PBMZ06, PLMZ11, RCTC<sup>+</sup>09, Sbu06, SRPC11, YDI08].  $P_4$  [MR99, RRT99].  $P_6$  [GV03].  $P_{n,k}$  [YTN01].  $q$  [BM16, BCMS20, FBK05].  $R$  [FZCFB08].  $s$  [Dic93].  $\Sigma_2^p$  [KL00].  $\sigma_f = 2^{2n} + 2^{n+3}(n \geq 3)$  [ZWW<sup>+</sup>14].  $Z$  [SMS92].

**-Abelian** [KPS13]. **-Adic** [XZS16].  
**-Ambiguous** [BCMS20]. **-Ary** [AE99, DG98, LMZC20, DZ00, RS01, YW20, PV98].  
**-Automata** [KSV03]. **-Calculus** [DL12].  
**-Center** [BJD20]. **-Chains** [DI02].  
**-Channel** [Nak04]. **-Collapsing** [Pri06].  
**-Covering** [ZBS05]. **-Cube** [LMZC20].  
**-Cubes** [DG98]. **-D** [CHWX09, JW08, SJ04]. **-Decomposition** [Dic93, Joh00]. **-Dependent** [DGL93].  
**-DFA** [AV96]. **-Differences** [Aku06].  
**-Dimensional** [AE99, JZ16, LR04].  
**-Disjoint** [BT07]. **-Drawings** [ADD<sup>+</sup>18].  
**-Edge-Connectivity** [Tsi06].  
**-Edge-Labeling** [Cal15]. **-Edge-Labelings** [LLW18]. **-Equivalence** [Hon07, Hon02, PT18, PT19, Teh16a].  
**-Equivalent** [Teh16b]. **-error** [YW20].  
**-Extra** [ZLL20]. **-Free** [Bed18, GV03].  
**-Gram** [FBK05]. **-Hamiltonian** [BZ13].  
**-Heap** [Jun14]. **-Independent** [TCLS10].  
**-integers** [Dom12]. **-Intersection** [EHS15].

**-Language** [Fin12]. **-Languages** [COT12, Sel08]. **-Like** [HK11]. **-LRC** [WNF20]. **-Matching** [CCF09, FG08].  
**-Matchings** [DGL93]. **-Matrices** [BM16, BCMS20]. **-Means** [CHWX09].  
**-Mesh** [FZCFB08]. **-out-of-** [DDHL11].  
**-Packing** [TSFZRP17]. **-Partners** [RRT99].  
**-Patches** [XBE02]. **-Periodic** [CKZ17].  
**-Planarity** [CDFK19]. **-Plateaued** [XCX17]. **-Power** [Sta05]. **-Power-Free** [DSS15, RS04]. **-Powers** [Shu11, Ram05].  
**-Qubit** [JM03]. **-Queens** [MGCvdIP20].  
**-Regular** [KMM06]. **-Resilient** [TCT14].  
**-Round** [LJ17]. **-SAT** [ZG13, ZK19].  
**-Search** [ZZZ16]. **-Sided** [ST93]. **-Space** [JZ16]. **-Star** [CC98, CHYT14, HLHH06, WC13, YCL11].  
**-State** [KPS18]. **-Subgraph** [GMU15].  
**-Substitution** [Mal07]. **-Super** [ZK19].  
**-Systems** [PSS12]. **-Temporal** [SMS92].  
**-th** [YTN01]. **-Tree** [LZ12]. **-Trees** [IZN99, YTN01, JL01, PV98]. **-Trivial** [BL14]. **-Truck** [MXY<sup>+</sup>04]. **-Uniform** [XC15, ZC15]. **-Union** [EHS15]. **-variable** [ZWCL14]. **-Way** [AM09]. **-Words** [ST16].

160 [WLC12].

**2-Adic** [KK19]. **2012** [SSS13]. **2CCC** [BE95]. **2ETIME** [ABH17]. **2ETIME-Complete** [ABH17]. **2NFAs** [KM17].

**3-Edge-Connected** [ST11]. **3-Repetitions** [GS12b].

60th [CVM20].

7 [DE08]. **7-Colourings** [JP08].

'98 [GJV00a, HO00]. '99 [MS99b, Pal01a].

**ABE** [HLC<sup>+</sup>19, YMC<sup>+</sup>17]. **Abelian** [AILR16, CRSZ11, CK16, CCI12, DR12,

DMSS16, GRRS14, IMS03, KPS13, PP11, SS01]. **Abstract** [DG09, TZ91]. **Abstraction** [ADHR09, ACV13, BPZ07, CFH<sup>+</sup>03, MH06, NTS06, WM13]. **Accelerating** [BIIN04]. **Acceleration** [IN05, IN08]. **Acceptance** [GQZ15, Mer08]. **Accepting** [Das19, Dom04, DM08, IIT91]. **Acceptors** [BvdB18, IR14, Iba15]. **Access** [DCS13, Rud15, SK04, Sun00]. **Accountable** [YMC<sup>+</sup>17]. **ACD** [Mar92]. **ACD-Ground** [Mar92]. **ACE** [YM19]. **Achieving** [JW08]. **Across** [CM12]. **Action** [HFLD09]. **Active** [DV11, JK14a, JK14b, PDPPJ11, PLMZ11, Qua07]. **Activity** [BGMV08]. **Acyclic** [AMR08, BPR09, FZFDCHB05, GVL07, KLB13, KS19, ZWS96]. **Ad** [AWF03, CIS03, LBJ03, SB12, WLF03, WD03]. **Ad-Hoc** [CIS03]. **Adapting** [CFG12]. **Adaptive** [BKS12, CLT14, CHYT14, KG11, LX94, LBJ03, SW09, TL99, Tse16, VJDT05]. **Add** [ANDZM09]. **Addition** [Wan04]. **Additive** [SS07a]. **Adic** [KK19, XZS16]. **Adjacent** [AKS14]. **Adjustable** [HZT12, WY05]. **Adjusting** [KSJ08]. **Advanced** [Qua07]. **Advances** [CDFK19, HO00]. **Adversary** [BHK<sup>+</sup>18b]. **Advertisements** [NH02]. **Advice** [BBB<sup>+</sup>18, FH05, KSY14]. **Aerial** [Ami05]. **Affine** [BKP18, Rov00]. **Affirmative** [PHPJRN<sup>+</sup>11]. **AFL** [BJ07a]. **Against** [BCFR07, BHK<sup>+</sup>18b, HMZ05, HCETPL<sup>+</sup>12, HLC<sup>+</sup>19, KMZS19, LWS<sup>+</sup>20, TCT14, Uen13]. **Agent** [BF07, BDDN01, EH12, MM07, NH02]. **Agents** [DSS08, FHL07, LK11, LCVLV09, LRT92, MCS08]. **Aggregation** [RGR11]. **Agreement** [BVM00, KMZS19, MNS11]. **Agreements** [Tru08]. **Aid** [CMWZ19]. **Alberto** [SCIS15]. **Algebra** [GC15, GB03, Hea11, Lar99]. **Algebraic** [BM16, BMW91, BÉ11, FH05, HLC<sup>+</sup>19, Kri97, TCT14, TJZ13, ZWCL14]. **Algebras** [ALR04, Ali16, BE92, BE93, JPŠ19, KLB13, MRT95, Ole92, SN13, TST01a]. **Algorithm** [ATK12, ANDZM09, ARS11, BV08, BB04, BKS12, CPY02, CF06, CFRD08, CDJ09, CTZ01, CL03, CLT14, CHYT14, DGN07, DN16, DG98, FL09, FZAM08, FJ12, Fri10, Fuj17, GKSZ19, GLV14, Gro03, GD12, GWL<sup>+</sup>17, HKV17, Hei97, HO99, HM04, HW17, Hut02, IST05, IZN99, JHK08, KK10, Kar99, Kör03, LW93, Li01, LJH<sup>+</sup>17, LCL06, MDAPHPJ<sup>+</sup>11, MOSZ18, MTNN99, MS19, MC13, NGHK15, Nis07, Okh06, PRN13, PYTH10, PR00, Pym92, QFL<sup>+</sup>15, SRN<sup>+</sup>20, SW09, SS07b, ST99, SKW08, Tor13, TSFZRP17, Tsi06, WG17, Won96, Won01, XS11, ACM11, CCM11]. **Algorithmic** [BS12, CFMR05, DGMM15, GGR14, HPV99, Riv04]. **Algorithms** [AFB96, Aku06, AILR16, AC05, AMR05, AMR11, ADD<sup>+</sup>18, AE02, AE05, Ars15, AMOZ07, BT07, BRM07, BH02, BCFL12, Bur12b, CD15, CCM97, CCF09, CFG12, CGKN08, CHWX09, CD20, CHA<sup>+</sup>92, CPC99, CHZ06, CCG<sup>+</sup>11, DP90, DPS99, DD13, DGL93, DWS15, DMSS16, ERW04, ECY02, FK19, FZ15, FZEBB05, FPPS03, FA06, GO09, GHJS05, Gol90, GM19, GKS<sup>+</sup>19, HL06, HP09b, HLW09, IMP12, INY07, IMS03, JMSO05, JZ16, KSMMT18, KKH90, LTW02, Leu04, Li12a, LMM<sup>+</sup>12, MPS99, Mas04, Moh02, Moh03, Nak04, NB18, OSZ92, RLWW96, SRR15, Sah01, SK01, SK03, SJ04, SG04, Ste93, TV07, Tor15, TL99, Tse16, WRNK03, WM05, WH03, ZBS05, Zom03, FG08]. **Alignment** [AES18, AE02, BBM<sup>+</sup>12, CK08b, FM96, GD12, PYTH10, TFF18]. **Alignment-to-Alignment** [FM96]. **Alignments** [CCP18]. **Alive** [BC12]. **Allocation** [BRSRC11, NWK06, WG17]. **Almost** [BKST18, HJ13, Kur20, PS12a, PP11]. **Almost-Equivalence** [HJ13]. **Almost-Universal** [BKST18]. **Alphabet** [Dom12, GNP<sup>+</sup>06, JMR91, JJS08, Jir11,

Mas19, Pig15]. **Alphabet-Independent** [GNP<sup>+</sup>06]. **Alphabets** [CTS18, Leu16, Mas13]. **Alternating** [AK14, BCPR07, CLLL08, HIIW01, HIR<sup>+</sup>92, IIT91, JK19, MO10, Slo95]. **Alternative** [dSMOC18, Set08]. **Ambiguity** [AMR11, Iba15, KMK11, Leu05, MS04, MPJ07, Şer09, SL17]. **Ambiguous** [BCMS20, Mig90]. **American** [SGZ02]. **Amiable** [Ata07]. **Among** [DDPS19]. **Amount** [BGRY16]. **Amplitudes** [Nis03]. **Analog** [LWJ<sup>+</sup>10]. **Analog/Mixed** [LWJ<sup>+</sup>10]. **Analog/Mixed-Signal** [LWJ<sup>+</sup>10]. **Analyses** [KPM15, Tse16, ZPXX17]. **Analysis** [AHL<sup>+</sup>13, AH07, BYP95, BV98a, Bee95, BAK12, BCB12, BET03, DN16, DES09, EH12, FK19, FSWF11, FZAM08, FBK05, Gol90, HP09b, HM04, IDR97, KR97, Leo03, LCY12, Li12a, LN08, LPP92, Lug11, MH06, MGGP08, NAK<sup>+</sup>15, OM96, PV98, RWZ01, ROK08, Set08, TY03, TV94, Wan04, WR16, Yam03, YLZ14, YB06, Yen08, ZZZ16]. **Analytic** [BMMR11]. **Analyzing** [CCP18, DW04]. **Anarchy** [FFMW19]. **And/Or** [FIO08, DW04]. **Angle** [MB17]. **Annotated** [KSJ08]. **Annotation** [BDL08]. **Announcement** [CIS16]. **Anonymity** [TFS19, ZYZ<sup>+</sup>19]. **Anonymous** [AOSY10, FDFZB12, Špr09, XS06]. **Answer** [PHPJRN<sup>+</sup>11]. **Ant** [KAPF05, dMLBPP20]. **Antennae** [AC05]. **Anti** [BJ07a, KMG11]. **Anti-AFL** [BJ07a]. **Anti-Spikes** [KMG11]. **Antidictionary** [Shu14]. **Antimirov** [AMR09]. **Antiport** [AFO06, ARV07]. **Any** [PS12b, TSFZRP17]. **Anytime** [CD15]. **Aperiodic** [BS92, BS15, DJR18, Sel08]. **Apices** [MAN06]. **APN** [XC15, ZH13]. **Apostolico** [SCIS15]. **Appearances** [DDD18]. **Application** [Cas05, MNS11, PB20, SB01, URS07, ZH06]. **Applications** [BKST18, CK08a, CCF09, CHWX09, CW11, CB09, CK18, DI02, Fin12, GC15, GGR14, HYN08, KL03, KKS05b, KMS11, KM90, Li07, MM97, PRS98, PYTH10, Suc90, Zom01c]. **Applied** [dMLBPP20]. **Approach** [BET03, BMMR11, CLMP16, CMMR04, CMWZ19, EAB<sup>+</sup>16, GSD03, HMZ05, IMP<sup>+</sup>05, Kri97, LW06b, MG14, MGGP08, Qua07, SGZ02]. **Approximability** [DJL<sup>+</sup>07]. **Approximate** [BH02, MRRV06, NRS18, ORS08, WKS<sup>+</sup>08, ZBS05]. **Approximated** [BB04]. **Approximating** [BR08, BVM00, BDG<sup>+</sup>11, Fre02, Gol14, HL01, LZ12, Rya15, YJ05]. **Approximation** [AE02, AP90, ABDP05, CS93, CCG<sup>+</sup>11, GY12, GM19, HJP<sup>+</sup>13, HW17, JMSO05, JSO10, KK10, LTW02, NB18, SS07b, Ste93, Tei17, WG17, XS11]. **Approximations** [Shu07]. **Arbitrage** [DLW02]. **Arbitrarily** [BSOR10]. **Arbitrary** [EZ01, GS12a, HKV17, Hei97, JWB03, LOPR18, NGHK15, XHLF02]. **Arc** [GP17, KHL12]. **Architecture** [MDL97, YLZ14]. **Architectures** [AP92b, CPJ06]. **Arcs** [MM97, RR18]. **Area** [CR14]. **Arithmetic** [BB03a, FMC04, FT11, GK11, ŠM05]. **Arithmetical** [Okh05]. **Arity** [CL07b, DZ00]. **Arrangement** [FWZ15, LX17]. **Arrangements** [KL05]. **Array** [CE98, FS06, GPC09, Jun14, LC18, ZZYH14]. **Arrays** [AE99, Fre05, MMP10, PA98, SMAN13, WH03]. **Arthur** [CCPS04, Vin05]. **Articulation** [Kar99]. **Artin** [AR16]. **Ary** [AE99, DG98, LMZC20, PV98, DZ00, RS01, YW20]. **Asian** [HO00, GJV00a]. **Aspects** [BM16, BRST07, HK09a, Riv04]. **Assembly** [BHR09, IPR07, IP08, JK14a, JK14b, Rog09, RCTC<sup>+</sup>09, SW17]. **Assignment** [Bar90, DGN07, GSD03, Hir91, NSVA12, WD90]. **Associated** [Sal11]. **Association** [TBGP20]. **Associations** [YZY<sup>+</sup>18]. **Assume** [LSWW13]. **Assume-Guarantee** [LSWW13]. **Assumptions** [GKS17]. **Asymmetric** [Gol14, WR16]. **Asymmetry** [FPS02]. **Asymptotic** [FY08, PR12, Szw95].

**Asymptotically** [CDPR11].  
**Asynchronous** [Ott15, Yue13].  
**Asynchrony** [SR00a]. **ATM** [GKKP99].  
**Atomic** [Anc02]. **Atoms** [BT13, EKKS18].  
**Attack** [DS02, DEKZ11, HCETPL<sup>+</sup>12, LJ17, WLC12]. **Attacks** [BNBN20, DEKZ11, HLC<sup>+</sup>19, LWS<sup>+</sup>20, TCT14].  
**Attraction** [HKRS19]. **Attribute** [BV08, TYM<sup>+</sup>17, WHLH17].  
**Attribute-Based** [TYM<sup>+</sup>17, WHLH17].  
**Auditing** [LWS<sup>+</sup>20]. **Augmentation** [NS13, YH11]. **Augmented** [XZZY19].  
**Authenticating** [GKS<sup>+</sup>19]. **Authenticated** [LHT09, LH11, MMS17]. **Authentication** [BKST18, HCETPL<sup>+</sup>12, LB04, YTP11].  
**Author** [Ano97, Ano98, Ano99, Ano00, Ano01a, Ano02, Ano03a, Ano04a, Ano05a, Ano06, Ano07, Ano08, Ano09, Ano11, Ano12, Ano13, Ano14, Ano15, Ano16, Ano17, Ano18, Ano19].  
**Authorized** [WZCH19]. **Auto** [CGKN08].  
**Auto-Intersection** [CGKN08].  
**Autocorrelation** [KYZS17]. **Automata** [AHK07, ABH<sup>+</sup>09, AK14, AMR11, AMR08, AR16, ACFE09, ABH17, AHK17, BBP11, Bed18, BHK19, Ber13, BMP03, BCD14, BMP15, BHK18a, BCPR07, BCHK09, BHK07, BRST07, BKM11, BKM12, BKM15, BW14, BMMR11, BMMR12, BKW02, CFM12, CFM13, CPY02, CLW09, CL15, Cha02, CLOZ04, CC05, CCR<sup>+</sup>90, CFY16, CG06, CR15, CMR07, CMRR08, CVMVMV00, CKK02, CTS18, DJ12, Dom04, Dro92, DK98, DM11, DP14, D's03, Dub95, ÉM11, Ési12, FGS<sup>+</sup>90, FTT10, Fin19, Fre08, FK13, Fuj17, GLV14, GHWZ05, GVL07, Glö07, Glö10, GSZ99, GH13, GH15, GQZ15, GC18, Gus13, GP15, HMZ05, HW05, HK09b, HJ13, HJ17, HJK18, HKKŠ13, IJT<sup>+</sup>93, JM13, JJS08, JJŠ18, JK19, JO07, JK07, KZ10, Kör03, KR16, KBH99a, KSV03, KMS06, KSY14, Kud07, KL11]. **Automata** [KMM06, KR08, KMO10, KO13, KMW14b, KMW14a, KMW16, KO18b, LP19, Löd15, Loh10, Mac96, MS20, Mal05, MR11, Mar08b, MVMM02, Mar97, Mar09, Mas13, MHT09, MZ12, MO07, MO09, MS18, Moh03, Moh13, MP91, MPJ07, Nak18, NTSH06, NWK05, NWK06, NCC<sup>+</sup>07, OS19, Oli13, Ott15, PI95, Pig09, PP14, Pig15, PM13, SYS19, SS07a, Sao92, SY12, ŠM07, Sir15, Slo95, SVF09, Sut03, Tam08, Tor13, Tor15, TY15, Vor16, Vor18, WM13, WKS<sup>+</sup>08, YDI08, YW06, YBI11, ZHZ11, ZZ18, ZQL12, dBDZ19, CV13]. **Automata-Based** [Tor13].  
**Automated** [CGR13, KM02, Pen93, TW09].  
**Automatic** [ADR11, BCDP08, BK16, CRS12, DMSS16, GHS13, GRRS14, LD01, Loh05, LBL06, MH06, RS15, SS12a, SF07].  
**Automaticity** [MRSS19]. **Automaton** [AČ11, CZOdH17, CL14, CC05, CGL12, IT13, JHK08, KPS18, MOSZ18, Okh03, Pol05, Prů17]. **Automaton-Based** [Okh03].  
**Autonomous** [BFMBS11]. **Auxiliary** [DZ00, KR16]. **Average** [BLP18, BGN10, BMMR11, BMMR12, BMMR19, CS93, DN16, FZAM08, KMIS09].  
**Average-Case** [BLP18]. **Averaging** [CM12, Ste11]. **Avoidance** [Sha04].  
**Avoiding** [AGM19, CRSZ11, GS12b, ORS08, Ram05, WAG<sup>+</sup>06]. **Aware** [LBJ03].  
**Axiomatic** [Bur12b]. **Axioms** [HST01].  
**aying** [FMV13].  
**B** [Lag17, LF96, OM96]. **B-Trees** [Lag17, LF96, OM96]. **Babai** [GGJ<sup>+</sup>19].  
**Back** [GH15]. **Backbone** [FPPS03].  
**Backtracking** [MT95b]. **Backward** [FL09].  
**Backward-Oracle-Matching** [FL09]. **Bad** [KMZS19]. **Balance** [JL01, LF96, MMR10].  
**Balanced** [CZTH13, CS00a, Fle96, Lag14, LW93, LX19, LL16, MX11, RAB15, YTP11, ZWW<sup>+</sup>14].  
**Balancing** [Hei97, MD00, ST01]. **Banded** [BL01]. **Bandwidth** [GR03]. **Banishing** [HJV93]. **Banyan** [KR97]. **Barrier** [GM19, Uen13]. **Base** [DRDN08, FZ03, Hon06, MP91].

**Base-Station** [DRDN08]. **Based** [ADR11, ARS11, ABL<sup>+</sup>11, AH07, BCB12, BK95, BNR99, BDDN01, BKS12, CCM11, CP06, CDPT16, CCD07, CST<sup>+</sup>17, CK18, CVDV10, DPS93, DEZ01, FDFZB12, FZT14, GWL02, GR03, HK02, HO99, HW10, JC03, JK07, KMZS19, LYX<sup>+</sup>19, LHT09, LTZ12, LH11, LYHW19, Luc09, MLO17, MM07, MMS17, MMS05, ND02, NKW08, NSVA12, Okh03, PRN13, Qua07, RK09, RR04, SB12, ST01, SL17, TWZ11, TYM<sup>+</sup>17, TBGP20, Tor13, Tor15, Tse16, TFS19, VG01, Ver09, WNF19, WWT20, WNF20, WHLH17, WD03, WZCH19, XHLF02, XCX16, YTLC02, YW06, ŽM11, ZYZ<sup>+</sup>19, ZPXX17, ZGCZ18, vLW15, FBK05, ZWCL14]. **Basic** [BV08, Vor18]. **Basis** [Sub90a, Sub90b]. **Batch** [DFLL02, LLQ06, PY04, ZPXX17]. **Bayesian** [ZLW<sup>+</sup>17]. **BDD** [FBK05]. **BDD-based** [FBK05]. **Be** [AAV00]. **Becomes** [KM07b]. **Beeps** [EP17]. **Before** [BSS12]. **Begins** [BSS12]. **Behavior** [AC05, EH12, SB01, TCT14]. **Behavioral** [BCB12]. **Behaviors** [PQ06]. **Behaviour** [BMMR19, PR12]. **Belated** [Tse16]. **Benford** [Rav08]. **Bent** [XCX17, ZLL11]. **Bernays** [RS95]. **Beta** [CS18]. **Beta-Shifts** [CS18]. **Between** [CLT09, Faz08, Fia08, GGJ<sup>+</sup>19, HKS13, HN10, KA18, Láz13, Sal13, ZYZ<sup>+</sup>18, ZWS96]. **Beyond** [FGH<sup>+</sup>07, HJ13, RKRR02]. **Bi** [GV03, NS13]. **Bi-Cographs** [GV03]. **Biautomata** [HJ14, HJ16]. **Bichromatic** [MB17]. **Bideterministic** [Tam08]. **Bidirectional** [BGM<sup>+</sup>18, GMNS15]. **Bifurcation** [APMP17]. **Big** [MLO17, MMS17, ZLW<sup>+</sup>17]. **Bimonoids** [DP14]. **Bimorphisms** [MT10]. **Bin** [BDI<sup>+</sup>11, FFMW19, HJP<sup>+</sup>13, JZ16, MV11]. **Binary** [Ata07, BMS18, CRSZ11, CDJ09, CKZ17, CS00a, DSS15, FLFR19, HH12, HH11, HFLD09, Hol11, IN08, JS03, KYZS17, KK90, LZGN06, Mas19, OW92, PS12b, RAB15, Sal07, Sha04, Smy12, Vor16, XZS16, YB06]. **Binding** [AES18, AB17b]. **Binoid** [GN11]. **Binomial** [ZZC15]. **Bio** [DH05, MB06]. **Bio-Computation** [MB06]. **Bio-Operation** [DH05]. **Bioinformatics** [KKS05b]. **Biological** [LJH<sup>+</sup>17]. **Biology** [RCTC<sup>+</sup>09]. **Bipartite** [FGV99, GV03, LMZC20, LV08, Toš06, WQY16, Won96, Won01]. **Bipartitioning** [HT95]. **Bird** [Ami05]. **Birthday** [CVM20]. **Bisemigroup** [GN11]. **Bisimulation** [AHK07, ABH<sup>+</sup>09, MC13]. **Bisplit** [GV03]. **Bit** [BT17, CF06, CCF09, DD13, DES09, HN06]. **Bit-Parallel** [CF06, CCF09, DD13, HN06]. **Bit-Split** [DES09]. **Bitonic** [INY07]. **Bitwise** [FNI16]. **Bivariate** [TWZ11]. **Black** [CS96, DSS08, HHP17, MC02]. **Black-Box** [HHP17]. **Blackbox** [WCD<sup>+</sup>14]. **Blackwell** [GZ12]. **Block** [BLLS03, LJ17, MRRV06]. **Blocking** [Dai97]. **Bloom** [Sal18]. **Blow** [JJS08]. **Blow-Ups** [JJS08]. **Blum** [Câm14]. **BNF** [dMLBPP20]. **Bond** [KKS05a]. **Bond-Free** [KKS05a]. **Bonsai** [PPR18]. **Boolean** [BB99, BGY90, BLY12, CM92, CH15, Car11, CLMP16, DQFL12, ÉK07, FY11, Hea11, HSS07, IP08, JK19, KY90, LO10, LHG11, Okh06, dSMOC18, PP11, Sch10, SS01, SFL17, SH17, TCT14, TJZ13, ZWCL14, ZWW<sup>+</sup>14]. **Bootstrap** [DVG03]. **Bordered** [GRRS14, KM07a, KM08]. **Borders** [ŠM07]. **Bottlenecks** [JYF91]. **Bottom** [FSM11, Gaz06, Mal15]. **Bottom-Up** [FSM11, Gaz06, Mal15]. **Bound** [BBP11, CE98, FY08, HPP99, Uen13, ZSW14, ZG13]. **Boundary** [DRDN08, EH15, Fre02]. **Bounded** [AMT20, BLM04, CFM12, CRSZ11, DDD18, De 06, DFLL02, DGMM15, FCS05, IJT<sup>+</sup>93, IS12, JZ16, LNP16, LZ93, MMP10, Mee12, Pet11, PZX07, Vik96, WLF03]. **Boundedness** [vdM00]. **Bounds** [AF20, ADD<sup>+</sup>18, BKM15, BE19, DH18,

Dom04, DSS15, Gus13, HHH07, JWB03, LHG11, MV11, SNJ11, Uen13, WNF19, XCMT20, YS13, ZK19, dBDZ19]. **Box** [HHP17]. **Boyer** [CFG12]. **Branch** [HPP99]. **Branch-and-Bound** [HPP99]. **Branching** [Bed18, KS19, PSA17]. **Brane** [CP06]. **Breadth** [CCR<sup>+</sup>90]. **Breaking** [Uen13]. **Bridge** [Láz13]. **Bridges** [GD98]. **Broadcast** [Anc02, CFMS15, LAHN14, Nak04, PZX07, RMZW19]. **Broadcasting** [CYS<sup>+</sup>12, HT09, PP06, WD03, XLC<sup>+</sup>04]. **Broken** [AAV00]. **Brownian** [Nis07]. **Browsing** [DE08]. **Bruijn** [BGM<sup>+</sup>18, KX12, Noc98, NS98, WWT20, WRNK03]. **Brute** [CCP05]. **Brzozowski** [DN16, GLV14, SKW08]. **Bubble** [ZH19]. **Bubble-Sort** [ZH19]. **Büchi** [FKV06, KL11]. **Buffer** [DLC<sup>+</sup>14]. **Bulk** [CCG<sup>+</sup>11, FNI16]. **Bundles** [LWW00]. **Burnside** [KPS18]. **Bursty** [SK04, SB17]. **Buses** [BT00, Mat04, PA98, WH03]. **Buy** [CCG<sup>+</sup>11]. **Buy-At-Bulk** [CCG<sup>+</sup>11]. **Byzantine** [PP06].

**Cache** [Leo03]. **Caching** [BLR09]. **Cactus** [TSFZRP17]. **Calculi** [AH07]. **Calculus** [BDSV06, CP06, DL12, Kri92, Oga00, PT90, Pym92, RS95, Yue13]. **Can** [AAV00]. **Cannot** [KPS18]. **Canonical** [BJ05, BJ06, BJ07b, CC05, FGV99, GSZ09, MAN05, WM13]. **Cantor** [Ési12, Sta05]. **Capacities** [Li12b]. **Capacity** [AF20, BKM12, DST10, FL97, Li12b, Zet11]. **Captures** [DW03]. **Capturing** [FW90, ISAZ08]. **Cardinals** [Fin19]. **Care** [Ros03]. **Careful** [Vor16]. **Carpi** [Ber11]. **Carriers** [GH07]. **Cartesian** [MRT95, Ole92]. **Cartesian-Closed** [MRT95]. **Cascade** [WGD18]. **Cascading** [Sal18, Sub05, Wan14]. **Case** [BLP18, BMS12, BDC90, Das19, DN16, FK06, Fle96, KP10b, Lag17, PSA17, YH11, ZSW14]. **Cases** [BCR11]. **Catalytic** [HFLD09]. **Categorical** [Sak01]. **Categories** [MOM91, Oli13, RGR11]. **Category** [ÉM11, MRT95, Ole92]. **Catenation** [CLMP16, CGKY11, CGKY12]. **Catenation-Intersection** [CGKY11]. **Catenation-Reversal** [CGKY12]. **Catenation-Star** [CGKY12]. **Catenation-Union** [CGKY11]. **Catenations** [Mel93]. **Caterpillars** [AB17a]. **Cauchy** [Ruo96]. **Cauchy-Peano** [Ruo96]. **Causal** [BCB12]. **Cayley** [BK16, CP99, CL07a, XZY19]. **CCA** [SZFX20]. **CCA-Secure** [SZFX20]. **CCZ** [BH11]. **CCZ-Equivalence** [BH11]. **Cd** [FO08, BCVVH07, CVDV10, MO09, Sun05]. **CD-Systems** [MO09]. **CDS** [Fuj16]. **Cell** [AFO06, RCTC<sup>+</sup>09]. **Cell/Symbol** [AFO06]. **Cellular** [DJ12, Dub95, FZ03, GSD03, JHK08, Mar08b, Sir15]. **Center** [BJD20]. **Centralized** [Ott13]. **Cerný** [GGJ<sup>+</sup>19, Ste11]. **Certain** [KRK16, Sal11, Won01]. **Certificate** [ZGCZ18]. **Certificate-Based** [ZGCZ18]. **Certificateless** [DZH16, SZFX20]. **Certify** [GHWZ05]. **Chain** [GSZ99, JSO10]. **Chains** [DI02, DHR08]. **Chandra** [KMW12]. **Change** [CTS18]. **Changes** [LZ93, Vik96]. **Channel** [BBL<sup>+</sup>12, BNS03, GSD03, HLH19, NN93, Nak04]. **Channels** [MG14, YBM11]. **Chaos** [EMRB12]. **Characterisation** [D's03]. **Characteristic** [Çev20, IB12, LCXS19, WNF19]. **Characteristics** [OS01]. **Characterization** [ÉI14, KM17, MM05, MCS08, Mar08b, Okh05, OS93, Ric19, RW11, YTN01]. **Characterizations** [IS12, JM03, KSV00, OY11, PPJY08]. **Characterizing** [IW07, JC03]. **Charts** [EGPS10]. **Checking** [CGR13, CFH<sup>+</sup>03, EHK06, HW10, LD01, Sch10, YW06]. **Checkpoint** [PNN<sup>+</sup>10]. **Checkpointing** [GCK08, MM07, YSM<sup>+</sup>00a]. **Chemical** [HFLD09, KPM15]. **Choffrut** [BMY17]. **Chomsky** [DV14, PPJY08]. **Choose** [INY07]. **Chord** [CCF08]. **Chordal**

[FHL07, NS13]. **Christian** [BMY17]. **chunk** [AP92a]. **Church** [AD12, KM07b]. **Ciliate** [DH05]. **Ciliates** [BHR09]. **Cipher** [LJ17]. **Ciphertext** [SZFX20, YM19]. **Circle** [Klo96a]. **Circuit** [Bir11, LWJ<sup>+</sup>10, RVT06, Vin05]. **Circuit-Size** [Bir11]. **Circuits** [FGH<sup>+</sup>07, GB03, GRB03, IP08, PRS98, SUZ13, YB06]. **Circulant** [HSS19, SZQS18, YCTW10]. **Circular** [Asv07, DS96, GP17, MM97, MMR10]. **Circular-Arc** [GP17]. **Circulating** [SK01]. **Circulation** [GS12a]. **Circumscription** [Lis93]. **CKY** [BIIN04]. **Class** [AGM14, BS92, CPJ06, ERW04, Has00, Jai95, KK19, MR11, MN00, Oka99, Sch13, TCT14]. **Classes** [Arv97, AP90, ABDP05, CCPS04, CM92, Cap96, DY19, GO09, Géc07, GR00, HT12, HK95, KXC00, LV08, NCC<sup>+</sup>07, SH17, UU07, XZS16, XCV17, vLW15]. **Classic** [IN13]. **Classical** [BMP15, Fia08, Oga00, ZQL12, CV13]. **Classification** [ATK12, SKL03, ZLW<sup>+</sup>17]. **Classifying** [SWZ97]. **Claus** [HHH07]. **Clauses** [FGL<sup>+</sup>90, SN13]. **Clique** [BLM04, DJL<sup>+</sup>07, GR00, LV08, MR99, MM97, Ste93]. **Clique-Width** [BLM04, GR00, LV08, MR99]. **Clock** [D's03]. **Close** [Fre02]. **Closed** [MRT95, Ole92, TBGP20, TW09]. **Closed-Set-Based** [TBGP20]. **Closeness** [AO11, Dan11, YB19]. **Closure** [CK08a, DMMM14, HIIW01]. **Closures** [BGS11]. **Cloud** [MLO17, MGJ19, WHLH17, YMC<sup>+</sup>17, ZLW<sup>+</sup>17]. **Cluster** [ABL<sup>+</sup>11, BBP11, Ber13, BNR99, IN08, URS07]. **Cluster-Based** [ABL<sup>+</sup>11, BNR99]. **Cluster-Dot** [IN08]. **Clustered** [CDFK19, FPP03]. **Clustering** [BKS12, CL03, CHWX09, EGY02, FPPS03, MMS05, ZC05]. **Clusters** [BLMR05, CFMR05, CVOV11, LCVLV09, SK03]. **CMP** [For10]. **Co** [BLM04]. **Co-Gem-Free** [BLM04]. **Coalgebras** [Oli13]. **Coarse** [MS99a]. **Cobham** [MRSS19]. **COCOON'02** [IZ04]. **Code** [DK12, LYHW19, ND02, PR11, Rud15]. **Code-Based** [LYHW19]. **coded** [GP13]. **Codes** [AGM14, BKST18, Bur12a, CFPR03, DT20, FLFR19, GMNS15, GRB03, HS11, HSS19, Kun16, Leo03, LZ15, SZQS18, WGF16, WF17, WNF19, YTP11]. **Codewords** [Arn17]. **Coding** [CIY01, CK08a, KKS05b, ŠM05]. **Cographs** [GV03]. **Collaborative** [SP04]. **Collage** [IST05]. **Collapsing** [APV06, BZ10, Pri06]. **Collection** [CVM20]. **Collision** [Nak04]. **Colonies** [MCS08]. **Colony** [KAPF05, dMLBPP20]. **Colored** [AFB96]. **Coloring** [Bod91, BHK<sup>+</sup>18b, CKK02, SG04]. **Colorings** [GHJS05, IZN99]. **Colouring** [SS99]. **Colourings** [JP08]. **Combination** [HW17]. **Combinations** [CB09]. **Combinatorial** [ACDL18, CCF08, DD06, MM05, TV07]. **Combinatorics** [BS12, BMMR11, EMR10, GHS13, IZ04]. **Combinatory** [RS95]. **Combined** [CLMP16, CGKY11, CGKY12, SY07, ACM11]. **Combining** [Bar90]. **Committed** [Çev20]. **Common** [AMT20, AILR16, AE05, DD13, IMP<sup>+</sup>05, KS10, LW05, LW06a]. **Communicating** [BKM11, BKM12, BKM15, CCFS07, CVMVMV00, DPS97, Kri92, LRT92, MS07, MVMM02, Ott13, Ott15, Tru08]. **Communication** [Ada10, BV98a, BF97, BKM15, DHIÖ97, DDPS19, FL97, HYL20, LC18, Nak04, PPR02, Špr09, YBM11, ZC13, ZYYH14]. **Communications** [CCM97, RVT06]. **Community** [ROK08]. **Commutative** [BH11, MR91]. **Commutativity** [IDR97, MS12]. **Commuting** [Cai94]. **Compact** [BMS12, LYX<sup>+</sup>19, PPR18, YM19]. **Comparative** [OM96]. **Comparing** [Sal07].

**Comparison** [FA06, HT12, KA18].  
**Compatible** [MIN11]. **Compensation** [Sem20]. **Competence** [BCVVH07, CVDV10].  
**Competence-Based** [CVDV10].  
**Competitive** [Leu04, ZZZ16].  
**Competitiveness** [Pal03]. **Compiler** [DVG03]. **Complement** [Jir14, O'N15].  
**Complementation** [Bed18, FKV06, JJS05, JPŠ19, RC05].  
**Complements** [HP09b]. **Complete** [ABH17, BGI<sup>+</sup>18, DK11, HW10, LD01, MW05, RWZ01, RS01, ZYLW12, GP13, GI19]. **Completely** [DVG03].  
**Completeness** [ABDP05, FOP05, HJV93, LBL06, Nag20, Zan91]. **Completing** [BCHK09]. **Completion** [BZ13, DFLL02, DK11, LLQ06, MMY10, PY04].  
**Completions** [ST16]. **Complex** [Brz13, BD19]. **Complexities** [Jir14, KK19, Sch02, TY15]. **Complexity** [Ada10, AFO06, AKK19, AOSY10, AP92b, Arv97, AP90, BGN10, BHK19, BAK12, BPT16, BFL02, Bod91, BT17, BHR04, BMMR11, BLY12, BL12, BT13, BL14, BCC13, CSR12, CK08a, Cãm14, CLMP16, CRSZ11, CK16, CDM13, CS93, CGKY11, CGKY12, Dai97, Das04, Das19, DLW02, DG98, DM08, DK12, EH15, EHS15, FH05, FZ13, FL97, GY12, GPS14, GH15, HS08, HKNS16, HT12, Hol11, HK03, HK09b, HK11, HJ14, HJM19, IDR97, IR14, IYZ04, JS02, JMR91, JJS05, JM11, Jür08, KEH16, KLH16, KSV00, KLS05, KO13, Leu05, Lis93, Loh05, LMW08, Lüc18, MNS18, Mas19, MTVM09, MTVM15, MT95b, MB06, NRS18, NRS19, NB18, O'N15, OS19, PS02, PR11, Prû17, Rao08, RR18, Rya15, SS07a, SY07, SMS90, Sch10, SW17, SD16, Sun05, Toš06, TL99, VW93]. **Complexity** [WAG<sup>+</sup>06, Wid12, WP08, XZS16, YS13, YTLC02, YW20, YWY94, Yen08, ZZT91].  
**Complexity-Theoretic** [FH05].  
**Component** [GCH20, IN10, NB18, ZYX18].  
**Components** [BGMV08, CVOV11, DL12, JHK08, LCY12, Mas09, Ott13, ST11].  
**Composed** [ABH<sup>+</sup>09]. **Composite** [AO10].  
**Composition** [AM09, ARS11, BCDP08, Wan04].  
**Compositional** [TW09, WM13].  
**Compositionality** [FT09]. **Compositions** [Mal18, Teh18]. **Compressed** [HI18, IST05, IB12, KS06, KSS08, Loh10, MHT09, WF17].  
**Compression** [CDLW05, CK08b, DM05, De 06, KM90, KK05, Sal18].  
**Computability** [Bur12b, Gra90, LS98].  
**Computable** [BS92, CZ11, SS12a, Sch02].  
**Computation** [AHR02, BDL08, CMRR08, DW03, EL13, FNI16, GO09, GRV10, GS12a, GR03, HL04, HN06, Lüc18, MB06, Nis03, PDPPJ11, RZ12, RS17, ST11, SP04, SZQ<sup>+</sup>17, VP99].  
**Computational** [BKM12, BZ10, DLW02, FOP05, GKS17, HK09b, IPR07, JWB03, JS02, LMM<sup>+</sup>12, MT95b, NB18, SD16, Sir15, WAG<sup>+</sup>06].  
**Computations** [Bee95, CD15, CE98, CK18, DK98, HK09a, HFLD09, HK19, KLP20, LD01, Mee12, YSM<sup>+</sup>00a]. **Computer** [TH01]. **Computers** [Rya15, Sah01].  
**Computing** [AETZ05, AO10, BMSMT11, BFL02, Cai94, CZOdIH17, CLW09, CMMR04, CMWZ19, EAB<sup>+</sup>16, FJ12, FKT07, FT11, GPPJR13, GCK08, Hea11, HO00, IZ04, LTZ12, Li00b, MLO17, MDL97, Obt01, Obt06, Pal01b, Päu00, PPR02, PPJR07, RS00, RR04, RC11, SRN<sup>+</sup>20, SVSN01, SGZ02, Sto92, SUZ13, TZ11, UU07, WP08, XFJ03, Yue13, ZZT91, Zom03].  
**Concatenation** [JJS05, Okh07].  
**Concentration** [Dai97]. **Concept** [BOV08, DE08, Jai98, ROK08]. **Concerning** [CCF08, Hon02, IR14]. **Concise** [LP19].  
**Concurrency** [Luc09]. **Concurrent** [BPT16, BET03, Dro92, DK98, MM07, PQ06, SKW08]. **Condition** [MP07, Mel93, Pal08, WWT20, ZWW<sup>+</sup>14].

**Conditional**

[GTCV19, LW05, LW06a, LYH<sup>+</sup>15, LYG17, LX19, MLO17, ZLL20, ZCX12]. **Conditions** [FT09, FO08, LBL06, Oka00, WFG15].

**Conference** [IZ04, SNJ11].

**Confidentiality** [SZQ<sup>+</sup>17].

**Confidentiality-Preserving** [SZQ<sup>+</sup>17].

**Configuration** [WC04]. **Conflicts** [MSR06].

**Congestion** [GKKP99, KKP97, ZYYH14].

**Conjecture** [AV96, BMY17, Ber11, SFL17, PHPJRN<sup>+</sup>11, Ste11]. **Conjectures**

[GGJ<sup>+</sup>19, RS04]. **Conjugates** [BMR<sup>+</sup>14].

**Conjunctive** [AK14, DR94, Jež08, Okh03].

**Connected** [AWF03, DWS15, ET14, Iba02, IN10, JHK08, KK10, KPS18, Li01, MTNN99, MNN06, ST11, Tor15, WAF03].

**Connection** [WGD18]. **Connections**

[DM08]. **Connectivity**

[CV14, FP04, GCH20, HLHH06, LLY13, LX17, NPSY00, Tsi06, WFG15, XZY19, ZYX18, ZH19, NS13, WC13]. **CoNP**

[RWZ01]. **CoNP-Complete** [RWZ01].

**Consensus** [BvdB18, RS13, SK01].

**Consequence** [BK95]. **Conservativity**

[Sel98]. **Consistency** [ADR11]. **Consistent**

[YSM<sup>+</sup>00a]. **Constant** [ANDZM09, CL98, FZCFB08, FT11, JYF91, Lag17, LZ15, NS18, OW92, Smy12, Sun00, WQ97].

**Constant-Degree** [CL98]. **Constant-Free**

[NS18]. **Constant-Memory** [Smy12].

**Constant-Width** [JYF91]. **Constrained**

[AE05, BJD20, CFM13, CHWX09, GD12, NCC<sup>+</sup>07, RAB15, Tor13]. **Constraint**

[MZ01]. **Constraints**

[ADR11, AE02, BB03a, Com90, FTT10, FM01, FS98, GR03, JSO10, LTW02, LOPR18, MN00, NN93, PYTH10].

**Construct** [GKSZ19]. **Constructing**

[AAA<sup>+</sup>09, CPY02, CC05, DH96, MC02, PS12b, TJZ13, WWT20, XC15, YCTW10, ZH13, ZWCL14]. **Construction**

[BF07, CGL12, DD08, FZT14, FLFR19, HYT15, HHP17, KKS05a, LW06b, MOSZ18, MDL97, Sak01, Set08, SKW08, WF17,

WZ15, XCMT20, Zho02]. **Constructions**

[DQFL12, LL16, SNJ11, Sal13, WPZ16,

WNF20, WKS<sup>+</sup>08]. **Constructive**

[BRSRC11, Fre08, Oga00].

**Constructivizing** [Arv97]. **Constructors**

[Huy91]. **Constructs** [HST01].

**Containment** [NRT00]. **Contended**

[SB01]. **Content** [Cig04, GSZ09]. **Context**

[Asv07, BMS92, BCR11, BCD14, BESW07, BHK05, BIIN04, DV14, EIM18, ÉO13,

FLST12, GKRS10, HKS13, HW10, KK07,

Kog18, KRK16, KM07b, LO13, Mig90,

Ott13, Pal08, Rav08, Rei07, Sao92, Tei17,

Tra02, Tru08]. **Context-Free**

[Asv07, BCR11, BCD14, BESW07, BHK05, BIIN04, DV14, EIM18, ÉO13, FLST12,

GKRS10, HKS13, HW10, KK07, KRK16,

LO13, Mig90, Pal08, Rav08, Rei07, Sao92,

Tei17, Tra02, Tru08]. **Context-Freeness**

[Kog18]. **Context-Sensitive** [Ott13].

**Contexts** [CFRD08, Has00]. **Continuous**

[CZ11, GFK98, RHS10]. **Continuous-Space**

[CZ11]. **Contour** [BLL06]. **Contribution**

[Rov00]. **Control**

[BV20, DCS13, ES01, FK06, HST01].

**Controllability** [MH06]. **Controllable**

[SSS09]. **Controlled**

[DST10, DEKZ11, MVM07]. **Convergecast**

[AHL<sup>+</sup>13, MG20]. **Convergence** [MV11].

**Convergent** [ECY02]. **Convertible**

[LHT09, LH11]. **Convex** [BJD20, CLW09,

DRDN08, MAN06, MNN06, SRN<sup>+</sup>20].

**Convolutions** [Zha17]. **Conway** [FNI16].

**Cooking** [GW18]. **Cooperating**

[FFH15, Kar09, Mas09, MO07].

**Cooperation** [ARV07, SB12]. **Cooperative**

[FZ02]. **Cooperativeness** [MH06].

**coordinate** [ACM11]. **Coordinated**

[GCK08]. **Core** [Teh15]. **Cores** [MX11].

**Correcting** [GRB03]. **Correctness** [Bee95].

**Correlation** [EAB<sup>+</sup>16, GK11].

**Correspond** [BLS<sup>+</sup>05]. **Correspondence**

[DRS14, Fin12, HH11]. **Corrigendum**

[MS16a]. **Cost** [DGN07, FH05, For10, HI18,

OW92, TV94, WHLH17, WO03].  
**Cost-Effective** [WHLH17]. **Cost-Optimal** [WO03]. **Countable** [Bed18, RC05].  
**Counter** [EIM18, IJT<sup>+</sup>93, IDY08, Pet11, SY12].  
**Counterexample** [CFH<sup>+</sup>03].  
**Counterexample-Guided** [CFH<sup>+</sup>03].  
**Counters** [CR15, INY07, Rao08].  
**Counting** [AČ11, CP03, CCP18, GO09, MR11, SJ04, Toš06, ZSW14]. **Cover** [CPY02, CGH05, CYS<sup>+</sup>12, HW17, Kör03].  
**Coverability** [GRV10]. **Coverage** [CDM13, FK13, GM19]. **Covering** [DS96, GGR14, YB06, ZBS05]. **Coverings** [TSS13]. **Covers** [CCP05, ER06, LMZC20].  
**CP** [YMC<sup>+</sup>17]. **CP-ABE** [YMC<sup>+</sup>17]. **CPS** [Oga00]. **CPS-Calculus** [Oga00]. **CPU** [CZY14]. **Crawlers** [LKM02]. **Credit** [Tse16]. **Credit-Based** [Tse16]. **Crick** [KM08]. **Criteria** [HL04]. **Critical** [AA19, DW04, HB06, SS12a, Sun11].  
**Crochemore** [FJ12]. **Cross** [WM05].  
**Cross-Pollinating** [WM05]. **Crossed** [LC18, Tru08, ZFL<sup>+</sup>17]. **Crossing** [BPT06, ST16]. **Crosstalk** [KAPF05].  
**Crowd** [Sir15]. **CRS** [KLP20].  
**Cryptographic** [DQFL12, FY11].  
**Cryptography** [CST<sup>+</sup>17, YYW19].  
**Cryptosystem** [LHT09]. **CTL** [MTVM15].  
**Ctl\*** [CZ11]. **Cube** [CX98, HYL<sup>+</sup>20, LMZC20, LC18, PS12b, ZYYH14, ZFL<sup>+</sup>17].  
**Cube-Free** [PS12b]. **Cube-Of-Rings** [CX98]. **Cubes** [CLT14, DG98, XZZY19, ZCX12]. **Cuboids** [JSPD03]. **Curve** [Fre02]. **Customizing** [LX94]. **Cycle** [GP15, LCXS19, NS98, Ros00, Won96, Noc98]. **Cycle-Stealing** [Ros00]. **Cycles** [APMP17, DH18, GKSZ19, LX19, Won01, ZFL<sup>+</sup>17]. **Cyclic** [DESW05].  
**Cyclotomic** [KK19, XZS16]. **Cyclotomy** [XCX16].

**D** [CHWX09, FFMW19, HJP<sup>+</sup>13, JSPD03, JW08, Leo03, LJ17, SJ04, ŽM11]. **D0L** [Hon02, Hon06, Hon07, Sal07]. **DAGs** [CR14, PRS98]. **D'Alessandro** [Ber11].  
**Dassow** [BRST07]. **Data** [ATK12, BSG03, KY96, LOD07a, LOD07b, Lin08a, MLO17, MMS17, MGJ19, Oka99, Oka00, RGR11, RR06, Ros00, SKL03, Sal18, TV14, TZ91, WHLH17, YZY<sup>+</sup>18, YMC<sup>+</sup>17, ZPXX17, ZLW<sup>+</sup>17]. **Data-Parallel** [Ros00].  
**Database** [HMZ05, Lin08b, SEE99].  
**Databases** [Lar98, MT95b, VS93].  
**Datacube** [Poo04]. **Datalog** [vdM00].  
**Datawords** [MR11]. **Date** [KS10].  
**Davidson** [HO99]. **DDOS** [DEKZ11].  
**De-Quantisation** [CCM11]. **Deadlines** [PZX07]. **Deadlock** [BDC90]. **Dealer** [Sun00]. **Death** [EMR10]. **Debates** [YSD16]. **Decaying** [FIO08].  
**Decentralized** [MMS05, YM19].  
**Decidabilities** [BKM15]. **Decidability** [AT12, BHK19, BAK12, BCD14, Bur12b, DS05, DK12, Dur13, FM13, Gaz06, Loh05, RHS10, Yen08]. **Decidable** [AGM14, CRS12, Man15]. **Decide** [DK11].  
**Deciding** [Dai97]. **Deciphering** [GMNS15].  
**Decision** [CMWZ19, DH05, DMSS16, IR14, MVM07, ZB00, ZB02]. **Decisions** [Cig04].  
**Decoder** [BBFZM06]. **Decoding** [GMNS15, OSZ92]. **Decomposable** [FGV99]. **Decomposition** [CFPR03, Dic93, FGV99, Joh00, MAN05, SVF09, Yen09, ZWCL14]. **Decompositions** [AACR18, CSV02, DS05, PR00].  
**Decontaminating** [FHL07].  
**Decontamination** [LPS07]. **Decryption** [CCD07]. **Dedicated** [BRST07].  
**Deduplication** [MGJ19]. **Definability** [BV98b, ES01]. **Definable** [DK98]. **Defined** [DH05, EMR11, Hut02, JP06]. **Definitions** [Kam95, Moh03]. **Degenerate** [BRM07, IMP12, LJH<sup>+</sup>17]. **Degree** [AMT20, ABT16, Asl16, AHK17, AO10, AA13, BTO17, BB04, CL98, DH96, HL01, HLY<sup>+</sup>04, KA18, LDLW17, Tor13, WLF03, WQ97]. **Degree-** [DH96, HLY<sup>+</sup>04].

**Degrees** [EKKS18, Won96]. **Del** [KRK16]. **Delaunay** [Dev02]. **Delay** [GMNS15, JS97]. **Delays** [LLZ07]. **Delegators** [RS07]. **Deleting** [KO13]. **Deletion** [AB91, De 06, GMU15, KS11, MGJ19, PPJY08]. **Deletions** [WAG<sup>+</sup>06]. **Delivery** [AF20]. **Delta** [BLS<sup>+</sup>05, KSS08, dSMOC18]. **Demand** [HT09, IZN05, PZX07]. **Demonic** [Tha91]. **Dendric** [BDD<sup>+</sup>18]. **Dense** [MX11]. **Density** [DSS15, EIM18]. **Dependability** [ABL<sup>+</sup>11]. **Dependencies** [BV08, Lin08b]. **Dependency** [YJ05]. **Dependent** [DGL93, WG17]. **Deployment** [FZ03]. **Depth** [BS92, BLS<sup>+</sup>05, CCR<sup>+</sup>90, KL12, Pro96]. **Deque** [CCR<sup>+</sup>90]. **Derandomized** [SS01]. **Derandomizing** [Vin05]. **Derivation** [DFP99, dMLBPP20, Mas09]. **Derivations** [CVDV10]. **Derivative** [BMMR11, BMMR12, SL17]. **Derivative-Based** [SL17]. **Derived** [GLV14]. **descent** [ACM11]. **Description** [GM90, KRK16]. **Descriptive** [Câm14, Das04, DM08, GH15, HT12, HK03, HK09b, HJ14, HJM19, KO13, Leu05, LMW08, Mer08, Sun05]. **Descriptions** [DK12, Pin12]. **Descriptive** [CS93, WP08]. **Design** [AMR05, CCG<sup>+</sup>11, KR97]. **Designated** [Ver09]. **Designed** [GD12]. **Designing** [FZEBO5, SK03]. **Designs** [PRS98]. **Detailed** [ZPXX17]. **Detection** [EP17, Nak04, San13]. **Detectors** [Huy91]. **Determination** [AHR02]. **Determine** [FSWF11]. **Determined** [Géc07]. **Determinism** [CL15, HKKŠ13]. **Deterministic** [Ada10, AMR08, AHK17, BBK17, BV20, CDPR11, CCFS07, EP17, GLV14, Gia11, Glö10, HPP99, HJK18, IS12, JM13, JJS08, JK19, KZ10, LO13, Löd15, Mas13, MO09, MC13, OS01, Pig09, Slo95, WF17]. **Determinization** [CCP05]. **Deutsch** [CCM11]. **Developable** [Fre02]. **Development** [McN90]. **Developments** [GVL07]. **Deviation** [DPS99, MPS99]. **DFA** [AV96, NKW08, SKW08]. **DFA-Based** [NKW08]. **DFCA** [CP03]. **DFT** [SEE99]. **Diagnosability** [ZLL20, ZCX12]. **Diagnosis** [BCB12, SL17]. **Diagnostic** [CLT14]. **Diagram** [WGD18]. **Diameter** [GKS<sup>+</sup>19, NS98, Noc98]. **Diameter-Optimally** [GKS<sup>+</sup>19]. **Dictionary** [AE04, De 06]. **Difference** [BMP03, CZTH13, LL16, Van05, YTP11]. **Differences** [Aku06]. **Different** [GJKS18, Leu05]. **Differential** [ABDP05]. **Differentially** [XC15, ZZC15]. **Diffusion** [BCC<sup>+</sup>11, Hei97]. **Digit** [HP09b]. **Digital** [KPS93]. **Digitized** [SMAN13]. **Digraphs** [QFL<sup>+</sup>15]. **Dimension** [DG98, LZ15]. **Dimensional** [AGM14, AE99, BT00, BKP18, CdL04, DJ12, Dub95, JZ16, JP06, KPSC08, LR04, MS20, NR18, Prů17, SKL03, SMAN13]. **Dimensionality** [BHL<sup>+</sup>97]. **Dimensions** [KKH90, Poo04]. **Diophantine** [CE98, IDY08]. **Direct** [Nag20, SB12]. **Directed** [ADD<sup>+</sup>18, BPR09, FZFDCHB05, KLB13, RR18]. **Direction** [BF07, FS98]. **Directory** [ADR11]. **Directory-Based** [ADR11]. **Disambiguation** [Moh13]. **Discontinuous** [ÜS02]. **Discord** [EGPS10]. **Discounting** [CM12]. **Discovery** [TBGP20]. **Discrepancies** [EGPS10]. **Discrete** [BDG<sup>+</sup>11, BLL06, CZ11, DPR07, JRPIP08, Yen08]. **Discrete-Time** [CZ11]. **Disequilibrium** [VJDT05]. **Disjoint** [BT07, DH18, GSZ09, HKV17, LPC11, LMZC20, RLWW96]. **Disjoint-Paths** [LPC11]. **Disjunctive** [DR94]. **Disk** [CYS<sup>+</sup>12, Fuj16]. **Dispatching** [KD99]. **Distance** [AE04, CZOdH17, CB09, CMR07, HKS13, HL01, HLY<sup>+</sup>04, HI18, Li07, Moh03, NRS19, PRN13, YHK14, ZWS96]. **Distances** [ST99]. **Distinct** [LZGF16]. **Distributed** [AETZ05, AHR02, ABL<sup>+</sup>11, BCB12, BB04, BKS12, CLT14, Cig04, DCS13, DEMA05, FFH15, FBHH01, HPP99,

KK10, KG11, KBH99a, KSV03, LTZ12, Mas09, MO07, MV11, Pal01b, SK01, San13, SF07, SP04, Tsi06, WLF03, WC04, WRNK03, XS11, YSM<sup>+</sup>00a, ZC05].

**Distribution** [AS18, BBM<sup>+</sup>12, Cas95, DG98, MMR10, PNN<sup>+</sup>10, RR06, Rav08, SNWW06, SNJ11].

**Distributions** [Gol90]. **Diverse** [BGI<sup>+</sup>18].

**Diversity** [Qua07]. **Diversity-Based** [Qua07]. **DLOG** [Gre96]. **DNA** [ANDZM09, CK08a, DW03, FMC04, FK05, FKT07, IMP12, Sal18]. **Does** [MCM<sup>+</sup>11].

**Domain** [CGH05]. **Domains** [Dro92].

**Dominance** [SJ04]. **Dominating** [AWF03, DWS15, KK10, NGHK15, Tor15, WAF03].

**Domination** [AA19, HKT00, TK19].

**Dominoes** [RR99]. **Dot** [BS92, BLS<sup>+</sup>05, IN08, JP06, KL12].

**Dot-Depth** [BS92, BLS<sup>+</sup>05, KL12]. **Double** [AMR11, CHA<sup>+</sup>92, CS99, HSS19, LOZ98, MB03]. **Double-Ended** [CS99].

**Double-Tape** [AMR11]. **Doubly** [APMP17, Wid12]. **Doubly** [Lin08a].

**Doubly-Linked** [Lin08a]. **Down** [BCC<sup>+</sup>96, LW93]. **Download** [Li12b]. **DP** [CV13]. **Dragon** [SSS13]. **Drawing** [DEKW06, Pat06, ZH06]. **Drawings** [ADD<sup>+</sup>18, MAN06, MNN06]. **Drip** [CP06].

**Driven** [BESW07, DS02, NKW08, OS19].

**DSMS** [ST01]. **Dual** [CLT14, DRS14, HL04, HSS19, LPC11, Okh07, SZQS18, ZCX12, ACM11].

**Dual-Cubes** [CLT14, ZCX12]. **Dual-Net** [LPC11]. **Due** [KS10]. **Duplication** [DGMM15, FMR20]. **Duplications** [Sem20].

**Duval** [HN04]. **Dynamic** [BV98a, BV20, BDC90, CFMS15, Cas95, CZ11, DEZ01, GWL02, GR03, Hei97, HI18, JP07, KG11, KK90, Lag14, LOD07a, LOD07b, Li00a, Lug11, MO94, MD00, NWK05, NWK06, PPR18, PFG<sup>+</sup>01, Rud15, SK04, TZ11, Wan14, XFJ03]. **Dynamical** [PBMZ06, Toš06]. **Dynamically** [CVPV08, LCVLV09]. **Dynamics** [MB06].

**e-Normalization** [Moh02]. **e-Removal** [Moh02]. **E-Unification** [GJV00b]. **Earliest** [FSM11]. **Earliness** [KS10].

**Earliness-Tardiness** [KS10]. **Early** [PPJS07]. **Easier** [Lug11]. **Eco** [LK11, LCVLV09]. **Eco-Grammar** [LK11, LCVLV09]. **Eden** [Toš06]. **Edge** [AB91, BAK12, BS16, Cal15, CV14, DJL<sup>+</sup>07, ET14, GMU15, KA18, LDLW17, LX19, LLW18, NPSY00, ST11, Tsi06, WFG15, ZYZX18]. **Edge-Deletion** [AB91].

**Edge-Path-Replacement** [LLW18]. **Edges** [DEKW06]. **Edit** [AE04, CZOdIH17, CB09, HKS13, HI18, Moh03, PRN13, YHK14].

**Edit-Distance** [HKS13, Moh03]. **Editing** [FM96, ZWS96]. **Editor** [Zom01c].

**Editorial** [AETZ05]. **Editors** [Hsu98, NO99]. **EDZL** [WR16]. **Effect** [CL07b, FPS02]. **Effective** [Ruo96, SS12b, WHLH17]. **Effectively** [YMC<sup>+</sup>17]. **Efficiency** [EH12]. **Efficient** [ADHR09, ARS11, Anc02, BBFZM06, BRM07, BS01, BB03a, CPY02, CF06, CCF09, CCD07, CDJ09, CL10, DHIÖ97, DCS13, DZH16, ERW04, FL09, FZFDCHB05, FLP13, FG08, GLV14, GRV10, GSD03, GS12a, GRB03, HYT15, Huy91, INY07, IMS03, Kör03, LF96, LOD07a, LOD07b, Li01, LYHW19, MD00, MIN11, MHT09, MOSZ18, MS19, MC13, NGHK15, Okh03, PT14, Ros03, SRN<sup>+</sup>20, SK04, SUZ13, TWZ11, TFF18, Tsi06, WKS<sup>+</sup>08, WRNK03, WY05, ZZ18, ZC05].

**Eigenvalues** [QD03]. **ELAN** [BKKR01].

**Election** [AOSY10, FDFZB12, FZAM08, XS06].

**Electronic** [FK06]. **Elegant** [PRN13].

**Elementary** [Rog09]. **Elements** [AES18, KNR18, LLY13, LMZC20, VW93].

**ElGamal** [HLH19, LHT09]. **ElGamal-like** [HLH19]. **Embeddability** [CLT09].

**Embeddable** [BPT06]. **Embedded** [CDFK19]. **Embedding** [DLT06, Mar97, RAB15, WXF16, ZFL<sup>+</sup>17].

**Embeddings** [Li00a]. **Emerging** [CVPV08]. **Emptiness** [ABH17]. **Ems1** [PRN13]. **Emulated** [YBM11]. **Enable** [AF20]. **Encoded** [Câm14, CFG12]. **Encoding** [CK18, KSS08, OSZ92]. **Encodings** [CG09]. **Encrypted** [ZLW<sup>+</sup>17]. **Encryption** [BB03b, GKS17, HLH19, LHT09, LH11, MLO17, MMS17, SZFX20, TFS19, WLC12, WZ15, WHLH17, WZCH19, ZYZ<sup>+</sup>19]. **Ended** [CS99, Tsu01, TST01b]. **Ending** [CD15]. **Endomorphisms** [Ric19]. **Energy** [Jür08, Nak04, QFL<sup>+</sup>15, SUZ13, WY05]. **Energy-Efficient** [SUZ13, WY05]. **Enforcing** [PQ06]. **Enhanced** [LW06b]. **Enhancement** [NWK05]. **Enhancing** [Qua07]. **Ensure** [Bee95]. **Entangled** [LB04]. **Entropy** [CMRR08]. **Enumerable** [vLW15]. **Enumerating** [CC05]. **Enumeration** [CKZ17, CRS12, DMSS16]. **Environment** [MLO17]. **Epigenetic** [BDL08]. **Episturmian** [JP04]. **Equality** [BMW91, HH12, Hon12, Mel93, Sel98, Szw95, WZCH19]. **Equals** [RS13]. **Equation** [HSS07, MOSZ18]. **Equational** [BE95, Pin12]. **Equations** [CHKL07, CK07, ELS15, IDY08, LP11, LS98, LO11, MNS18, NS18, Okh05, PT90]. **Equivalence** [BDSV06, BH11, CMR07, DHR08, HJ13, Hon02, Hon07, IJT<sup>+</sup>93, KL03, Man15, NTSH06, PT18, PT19, Teh16a, WGD18]. **Equivalences** [BJ05, BJ07b, HJ97, BJ06]. **Equivalent** [GVL07, Teh16b, ZB00]. **Erasing** [Zet11]. **Erasure** [LZGF16]. **Errata** [BJ06, Tsu01]. **Erratum** [HT04a, LW06a, MTVM15, Ata11]. **Error** [GRB03, HL04, YW20]. **Error-Correcting** [GRB03]. **Errors** [AACR18, HJ13, HJ17]. **Ésik** [Fül17]. **Essential** [CL07b]. **Estimation** [CTZ01, SY07, SEE99]. **Estuarine** [LR04]. **Eulerian** [Ber13, Gus13]. **Evacuation** [Sir15]. **Evaluating** [KY90, Li00a]. **Evaluation** [ABL<sup>+</sup>11, BLY12, Cha02, DZ00, HYL20, Li12a, SK01, TH01, YH11]. **Even** [Faa19, GI19]. **Even-Odd** [Faa19]. **Event** [D's03, Yen08]. **Evidence** [BK95]. **Evolution** [EH12, Riv04, SZFX20]. **Evolutionary** [DT20, DM08, FRV19, HL01, MGCvdIP20]. **Exact** [AMR08, BBM<sup>+</sup>12, EL13, GQZ15, KL00, LLZ07, ZSW14]. **Exactly** [Cai94]. **Example** [CHKL07, GRRS14]. **Examples** [CM92]. **Exchange** [CST<sup>+</sup>17, TYM<sup>+</sup>17]. **Exchanged** [LC18, ZFL<sup>+</sup>17]. **Exclusion** [KG11, DDHL11]. **Execution** [FZAM08, Wan04, ZC05]. **Execution-Time** [Wan04]. **Exhaustive** [IN05, IN08]. **Existence** [DI02, RS07, Ruo96, Shu11]. **Existential** [Szw95]. **Existing** [FZ03]. **Expected** [CZOdlH17, Li00a]. **Experience** [CFMR05]. **Experiments** [DES09]. **Explicit** [DDPS19, KN93, Kam98, vdHM92]. **Exploiting** [BDSV06]. **Exploration** [CP16, ER14, HZZT12, PT14]. **Explore** [CFRD08]. **Exploring** [Gia11]. **Explosion** [DS02]. **Exponent** [BNBN20, SS12a]. **Exponential** [AA19, BCFR07, ÇA18, Fri10, GO09, Gol14]. **Exponential-Time** [GO09]. **Exponentiation** [HP09b]. **Exponents** [KMIS09]. **Expressibility** [MT95b]. **Expressible** [AB91]. **Expression** [CKW09, HW05, Han13, Kog18, SL17]. **Expressions** [BMMR19, CSY03, Cha02, CLOZ04, DM11, GH13, GH15, GC18, HWW06, HK11, Loh10, TV14, YZ07]. **Expressive** [Hen02, RHS10]. **Expressiveness** [Yue13]. **Expspace** [ZYLW12]. **Expspace-Complete** [ZYLW12]. **Extended** [BHK07, DG98, FIO08]. **Extending** [Pat06]. **Extension** [BMS18, EL13, Hen02, KM02]. **Extensions** [BLY12, DM12, HN04, Ver09, XLC<sup>+</sup>04]. **Extra** [ZLL20]. **Extractable** [Kun16]. **Eye** [Ami05].

**FA** [CKW09]. **Face** [RLWW96]. **Facility** [XS11]. **Factor** [AES18, CISH07, JPŠ19, MM05]. **Factor-** [JPŠ19]. **Factorial** [Shu07]. **Factorization** [BGI<sup>+</sup>18, BOV08, DD08, Hit20]. **Factorizations** [CL14]. **Factors** [AILR16, HN10, PAS08]. **Failure** [FWZ15, NTSH06, PNN<sup>+</sup>10]. **Fair** [MSR06]. **Faithful** [APP91]. **Families** [DH05, DD08, HJK12, KY96, MRS97, MAG09, OY11, SRPC11]. **Family** [BKST18, KSMMT18]. **FAS** [JRPPIP08]. **Fast** [Ars15, BLP18, BOV08, ECY02, FPPS03, FNI16, FA06, GO09, GKS<sup>+</sup>19, IML04, Kan15, LCL06, NWK06, PP06, SJ04, TCT14, Zha17]. **Fastest** [CFMS15, Hut02, XFJ03]. **Fat** [DEKW06]. **Fault** [CL07a, CHYT14, FZEBB05, GWL<sup>+</sup>17, HY97, KR97, LPC11, LYH<sup>+</sup>15, LYG17, LX19, XS11, XZY19, XZZY19, ZCX12]. **Fault-Free** [GWL<sup>+</sup>17, LX19]. **Fault-Tolerant** [CHYT14, LPC11, XS11, XZY19, XZZY19]. **Faults** [KNR18, LX19, NPSY00, PP06, WCD<sup>+</sup>14, YBM11, YCL11]. **Faulty** [CP16, GKKP99, GWL<sup>+</sup>17, LLY13, LMZC20]. **Feature** [MN00, SRR15]. **Feedback** [GB03, HG11, KHLC12, XLZ19, YB06]. **Feedback-Free** [GB03, YB06]. **Feferman** [HK95]. **Few** [GJKS18, MR99]. **FHE** [CK18, KLP20]. **FHE-Based** [CK18]. **FHSs** [XCMT20]. **Fibonacci** [DMSS16]. **Fibonacci-Automatic** [DMSS16]. **Field** [RW11, YW20]. **Fields** [LCXS19, WNF19, WNF20]. **Fighter** [KLS<sup>+</sup>19]. **Fighting** [FLP13]. **File** [Li12b, NN93]. **Files** [KSS08, WRNK03]. **Filter** [ARS11, MCM<sup>+</sup>11]. **Filter-Based** [ARS11]. **Filtered** [DM08]. **Filtering** [DEKZ11]. **Filters** [DT20, FBK05, Sal18]. **Find** [GI19, Gia11, MTNN99]. **Finding** [DGL93, ET14, Fuj16, GKRS10, GHWZ05, HKV17, HCG96, IMP<sup>+</sup>05, IB12, IZN99, Kar99, MM97, NRT00, PR00, VW93, Won96, Won01, ZB00]. **Fine** [Sel08, BSOR10, KPS13]. **Finite** [AM09, ARS11, AMR11, AMR08, AMR15, AHK17, BGN10, BHK19, BBL<sup>+</sup>12, BMW91, BHK07, BKM11, BKM12, BKM15, CSR12, CZOdIH17, CPY02, CLOZ04, CGH05, CGKN08, CFY16, CL07b, CGL12, CTS18, DL12, Das19, DGK08, Dom04, FFH15, Fin19, Fre08, GLV14, GHWZ05, GMNS15, GH13, GH15, GQZ15, HS08, HN10, HK09b, HJ17, HJK18, Iba15, JJS08, JJŠ18, JK19, KZ10, KL03, Kőr03, KLS05, KSY14, KMW14b, KMW14a, LCXS19, Mac96, MS20, MM17, Mar08a, MVMM02, MZ12, Mel93, Moh13, NWK05, NWK06, RW11, SS07a, SMS92, SD16, Shu14, ŠM07, SS01, SN13, Vor16, Vor18, WNF19, WNF20, ZQL12]. **Finite-Memory** [KZ10]. **Finite-State** [AM09, ARS11, AMR11, CSR12, CZOdIH17, CGKN08, Mac96, SN13]. **Finite-Valuedness** [Iba15]. **Finitely** [AK10, AM03]. **Finiteness** [AK06]. **Fire** [FLP13, KLS<sup>+</sup>19]. **Firing** [GLP07]. **First** [AB91, BB04, DGK08, DZ00, Has00, IMP<sup>+</sup>05, KKH90, Lin08a, MN00, Rov00, Ueh99]. **First-Class** [Has00, MN00]. **First-Fit** [KKH90]. **First-Order** [AB91, DGK08, DZ00, Lin08a]. **Fit** [KKH90]. **Five** [CH15]. **Five-Valued** [CH15]. **Fixed** [DS96, FL97, HL06, JJS08, LOZ98, MB17, Poo04, QLWL06, SW17, Toš06]. **Fixed-Height** [SW17]. **Fixed-Length** [QLWL06]. **Fixed-Parameter** [HL06]. **Fixpoint** [ELS15]. **Flat** [CDFK19, MT95b, Oka99]. **Flexible** [FMN06, JMSO05]. **Flipping** [LRR08, ZG13]. **Flips** [AAH02]. **Flooding** [CIS03, LBJ03]. **Floundering** [BM90]. **Flow** [LLZ07, Mas04, SS07b]. **Flows** [DW04]. **Fm** [GNP<sup>+</sup>06, IN05, IN08]. **Fm-Index** [GNP<sup>+</sup>06]. **Fold** [RKRR02]. **Folded** [DHIÖ97]. **Football** [CKL15]. **Forbidden**

[WAG<sup>+</sup>06, Yah12, Yen08]. **Forbidding** [Mas09]. **Force** [CCP05]. **Forecasts** [CL10]. **Foremost** [CFMS15, XFJ03]. **Forest** [Ali16, GO09, LZ12]. **Forests** [ERW04, Yah12]. **Forever** [HJM19]. **Foreword** [BNR05a, BNR05b, Hol05, Hol06, Hol08, Hol09, Hsu98]. **Forgetting** [Glö07, Glö10]. **Form** [BMMR19, Ési12, FSM11, GJV00b, LZGN06, Lin08a, VS93, Asv07]. **Formal** [BGS11, CSY03, CFRD08, DM05, DK12, ILT11, MDAPHPJ<sup>+</sup>11, McN90, MT95b, ROK08]. **Formalism** [dSMOC18]. **Formalisms** [HJW11]. **Formalization** [HK95]. **Formalizations** [KKS05a]. **Formed** [LCVLV09]. **Forms** [Cai94]. **Formula** [DS02, Uen13]. **Formula-Driven** [DS02]. **Formulæ** [HKKŠ13]. **Formulas** [CE98, Sch10]. **Forums** [XCC16]. **Forums-Oriented** [XCC16]. **Forward** [CD95, Lug11, WHLH17]. **Foundations** [HYN08]. **Four** [KK19, MTNN99, MNN06, SZQS18, SH17]. **Four-Connected** [MNN06]. **Four-Valued** [SH17]. **Fourth** [VS93]. **FPGA** [DEZ01, IN08, IN10]. **FPGA-Based** [DEZ01]. **FPSOLVE** [ELS15]. **FPTAS** [KS10]. **Fractional** [Sha04]. **Fragment** [HCG96, MW05]. **Fragments** [DGK08, MTVM09, MTVM15]. **Framework** [GGR14, LTZ12, Lin07, NS13, NWK05, TST01b, Tsu01]. **Free** [Asv07, Bed18, BMS92, BCR11, BCD14, BESW07, BHK05, BIIN04, BLM04, BL12, CD06, CR15, DV14, DSS15, EH15, EHS15, EIM18, ÉO13, FLST12, GS18, GKRS10, GB03, GV03, GWL<sup>+</sup>17, HWW06, HS11, HKS13, Han13, HW10, HLH19, JM11, JPŠ19, Kam95, KKS05a, KK07, KEH16, KRK16, KM07b, LO13, LX19, MR91, Mig90, NS18, Pal08, PS12b, Rav08, Rei07, RS04, Sao92, Sta07, Tei17, TSZ16, Tra02, Tru08, WZCH19, YB06, YJ05]. **Freeness** [Kog18]. **Frege** [HK95]. **Frequencies** [CK16]. **Frequency** [CZTH13, WPZ16, XCX16]. **Frequency-Hopping** [WPZ16, XCX16]. **Frequent** [BLM15]. **Frictional** [DLW02]. **Frontier** [AT12, CHZ06]. **Frontiers** [GPPJR13]. **Fujisaki** [TFS19]. **Full** [Bur12a, WLC12, ZHZ11]. **Full-Text** [ZHZ11]. **Fullness** [CdL04]. **Fully** [IST05, MC13]. **Function** [BKST18, MMS17, dSMOC18, PS02, Sta05]. **Functional** [Ano01c, BV08, BKKR01, HST01, Hin01, Moh13, Pre01, Sal13, Wil91]. **Functions** [BB99, BMS92, BLY12, BH11, CM92, CH15, Car11, CGH05, CL07b, DQFL12, EMR11, FY11, FK05, HK95, HG11, HI18, Jai95, KM02, KY90, KSV00, Kur20, LHG11, LL16, NAK<sup>+</sup>15, Obt01, PP11, Ros03, Rya15, SS01, SFL17, SH17, SUZ13, TST01a, TCT14, Teh18, TJZ13, XC15, XCX17, Yam03, YTP11, ZH13, ZLL11, ZWW<sup>+</sup>14, ZWCL14]. **Functorial** [DD12]. **Further** [CD06, Sbu06, ZYLW12]. **Fusing** [TV07]. **Fuzzy** [BOV08, ÉK07]. **GA** [VJDT05, Sun11]. **Gain** [MM11]. **Galerkin** [ÜS02]. **Game** [BvdB18, Fia08, FL12, GC15, GW18, FNI16]. **Games** [AT12, BFL02, Bod91, CM12, COT12, FZ02, FZ12, FFMW19, Fri10, GZ12, GJMP06, KL10, Vin05]. **Gandy** [Obt06]. **Gang** [BS01]. **Gap** [FM96]. **Gapped** [FBK05, HMZ05, PAS08]. **Gapped-Factors** [PAS08]. **Gaps** [AACR18, IMP<sup>+</sup>05]. **Garbage** [Nak18]. **Gardens** [Toš06]. **Gear** [AT11]. **Gem** [BLM04]. **Gem-** [BLM04]. **Gemmating** [FOP05]. **Gene** [ATK12, BHR09, DM05, IPR07, IP08, MGGP08, Rog09]. **General** [AMR11, BK95, BB04, Dic93, FPP03, HI18, Leu16, MS20, MD00, Moh03, TL99]. **Generalization** [GMNS15, HW05]. **Generalizations** [CLLL08, LD04]. **Generalized** [Arn17, Dai97, Dan11, GWL<sup>+</sup>17, HH11,

HW05, KKH90, KK19, KM19, Kur20, LL16, MGCVDIP20, Nak03, NS98, Okh06, Rao08, Sch02, Tho06, WM13, WC13, XZS16, ZYYH14, ZH19, ZGCZ18, Noc98].

**Generalized-Concentration** [Dai97].

**Generate** [IN08, Jež08, KPS18].

**Generated** [AK10, CL07a, JPS19, KMG11, LWJ<sup>+</sup>10, XZY19].

**Generating** [Asv07, BBC00, BMS92, BS92, CCP18, Dom12, RS04, Tru08].

**Generation** [AMR08, KMS06, LBL06, Smy12, TV07, ŪS02, Wan14].

**Generative** [DST10, Zet11].

**Generators** [HYN08, NAK<sup>+</sup>15].

**Generic** [BET03, ELS15, LW06b, MZ01, Moh02].

**Genetic** [ATK12, AC05, LMM<sup>+</sup>12, Nis07, WM05].

**Genome** [IMP12, SSK96].

**Genomic** [BBM<sup>+</sup>12, Sem20].

**Geo** [SS12b].

**Geometric** [CHWX09, CCG<sup>+</sup>11, GGR14, GS09, MRS97, PSS12].

**Geometrical** [CDJ09].

**Geometry** [RS17].

**Girod** [GMNS15].

**Given** [CC05].

**Global** [FTT10, JHK08].

**Globally** [Slo95].

**Glushkov** [BMMR12, ZZ18].

**Goals** [BM90].

**Goedel** [Szw95].

**Golomb** [BMP03].

**Good** [DQFL12, FY11, TCT14].

**Goodby** [SSS13].

**GPU** [CYZ14, FNI16].

**GPUs** [GD12].

**Graded** [BV08].

**Grained** [MS99a].

**Gram** [FBK05].

**Grammar** [AMR05, BCVVH07, CVDV10, CVOV11, DPS97, FFH15, FO08, LK11, LCVLV09, Láz13, MS07, Mas09, Ott13, Sun05, Tru08].

**Grammars** [AK14, Asv07, BCFR07, BESW07, BIIN04, BCC<sup>+</sup>96, CCR<sup>+</sup>90, DPS93, DFP99, DST10, Fer07, GSZ99, Jež08, KK07, KM15, LO10, LX94, dMLBPP20, MVM07, MS16a, MS16b, MO10, Nag20, Okh06, Pal08, Wil91, YJ05, Zet11].

**Granularity** [Kri97].

**Graph** [ADR11, AAV00, AB91, AMOZ07, AJMO11, AT15, BBC00, BDI<sup>+</sup>11, BHK<sup>+</sup>18b, CC98, CHYT14, DLT06, FW90, FL97, GO09, GR00, HO99, HZZT12, KLB13, LLW18, LOPR18, Oka98, RK09, RZ12, TSFZRP17, UU07, ZH06].

**Graph-Bin** [BDI<sup>+</sup>11].

**Graphs** [AES18, AFB96, AP92a, AMT20, ABT16, ADD<sup>+</sup>18, Asl16, AA19, AO10, AT11, AB17b, BTK13, BTO17, BPR09, BO97, BGM<sup>+</sup>18, BHL<sup>+</sup>97, BB04, BS16, BPT06, BLM04, BHR09, CP16, CV14, Çev20, CL07a, CLLL08, CDFK19, CPC99, ÇA18, DL12, DP90, DH18, DW04, ERW04, EL13, EZ01, FK19, FWZ15, FP04, FGV99, Fuj16, GV03, GP09, GS09, GP17, HKT00, HBIT08, HLHH06, HY97, JWB03, Klo96a, KPM15, KHL12, KA18, LWYL14, LDLW17, LX17, LWW00, LOZ98, LV08, MR99, MG20, MTNN99, MAN05, MAN06, MNN06, NGH15, NPSY00, NS98, OS93, RLWW96, RRT99, RR99, SS99, SG04, ST99, TV14, Toš06, WAF03, WFG15, WQY16, Won96, Won01, XZY19, YCTW10, YB19, ZWS96, ZH19, Noc98, WC13, YCL11].

**Greedy** [BR18, Fuj16, GKSZ19].

**Greibach** [Asv07].

**Grey** [CDLW05].

**Grid** [BFMBS11, BE19, JP08, LMM<sup>+</sup>12, MNN06, ST93, Cas05, PT14, YLZ14].

**Grids** [Cal15, MM17, NR18].

**Ground** [Mar92].

**Group** [CLLL08, DM12, FZ15, HYT15, KPS18].

**Grouping** [Lar99].

**Groups** [CD20, PP11, SS01].

**Grover** [KNR18].

**Growth** [GKRS10, Shu14].

**Grzegorzcyk** [Cap96].

**GSM** [LO10].

**Guarantee** [LSWW13].

**Guaranteed** [DPR07, Ros00, YSM<sup>+</sup>00a].

**Guaranteeing** [MPV04].

**Guarantees** [Pal03].

**Guarded** [FGL<sup>+</sup>90].

**Guess** [FSWF11].

**Guest** [AETZ05, NO99, Zom01c].

**Guided** [CFH<sup>+</sup>03, DDM07, HZZT12].

**Guidelines** [Ros00].

**GVW** [HLC<sup>+</sup>19].

**Hairpin** [DK11, MMY10, PRY01, ST16].

**Half** [Kam95].

**Half-Monotone** [Kam95].

**Halting** [FO07].

**Hamilton** [DH18].

**Hamiltonian** [BZ13, CP16, LX19, Noc98, NS98].

**Hamiltonicity** [LYG17].

**Handling**

[BCHK09]. **Harary** [ABT16]. **Hard** [BLLS03, BVM00, Dic93, ZB00]. **Harder** [CKL15]. **Hardness** [AMT20, LWW00]. **Hardware** [For10, IN05, INY07]. **Harmonic** [CCF08]. **Harmony** [LTZ12]. **HAS-160** [WLC12]. **Hash** [BKST18, LYX<sup>+</sup>19, NAK<sup>+</sup>15]. **Hashes** [Wan14]. **Hashing** [CKW09, LPP92, MB03]. **Hausdorff** [Sta05]. **Head** [KMW14b, KMW14a]. **Heads** [IT13]. **Heap** [BSG03, Jun14, Pro96]. **Hedges** [BOV08]. **Height** [Rei07, SW17]. **Helping** [AKS95]. **Hessenberg** [MS19]. **Heterogeneity** [RC11]. **Heterogeneous** [BLMR05, CFMR05, CYS<sup>+</sup>12, EZ01, OS01]. **Heuristic** [CHYT14, CDLW05, De 06, LY94, WAF03]. **Hexagonal** [GSD03]. **Hidden** [FZ13, IMS03]. **Hierarchical** [FK19, GM90, GCH20, JS02, Loh10, SVSN01, SK03, SP04, WC04, WHLH17, ZYZ<sup>+</sup>19]. **Hierarchies** [BLS<sup>+</sup>05, BKM15, DH05, KP10a, Sch02]. **Hierarchy** [BKM11, BZ10, BJY90, CSR12, Dev02, DZ00, HW00, Okh05, PPJY08, Rei07, Sel08, ZYZ<sup>+</sup>18]. **High** [CH15, Fin12, KR97, KKP97, Li12b, LKM02]. **High-Capacity** [Li12b]. **High-Performance** [LKM02]. **High-Speed** [KKP97]. **Higher** [BYP95, CCPS04]. **Higher-Order** [BYP95]. **Highly** [BCFR07]. **Highly-Polynomial** [BCFR07]. **Highways** [AAA<sup>+</sup>09]. **Hirschberg** [JHK08]. **Historical** [MP93]. **Histories** [Faz08]. **Hit** [WPZ16]. **Hits** [HM04]. **Hoare** [HV02]. **Hoc** [AWF03, CIS03, CL03, LBJ03, SB12, WLF03, WD03]. **Hole** [DSS08]. **Holes** [RR99]. **Holonomic** [BMS92]. **Home** [ST01]. **Home-Based** [ST01]. **Homing** [SYS19]. **Homogeneous** [JSPD03]. **Homomorphic** [CK18, MLO17, RMZW19]. **Homomorphism** [Suc90]. **Homomorphisms** [LO13]. **Honeycombs** [Sib97]. **Honour** [CVM20]. **Hop** [AF20, KKP97]. **Hop-Congestion** [KKP97]. **Hopping** [CZTH13, WPZ16, XCX16]. **Horn** [FGL<sup>+</sup>90, SN13]. **Huffman** [CFG12]. **Hulls** [CLW09]. **Hurry** [FZ12]. **Hybrid** [BHK07, CFH<sup>+</sup>03, DPR07, FK06, FFH15, FK13, KSMMT18, LMM<sup>+</sup>12, Smi95, SW09, XBE02]. **Hybridization** [ATK12]. **Hyper** [Bad09, CFMR05, HJ16, JM13, MQ11, MQ12]. **Hyper-Clusters** [CFMR05]. **Hyper-Minimal** [HJ16]. **Hyper-Minimization** [JM13, MQ11, MQ12, Bad09]. **Hyperbolic** [Mar08b, Mar08a]. **Hypercube** [BV98a, GWL<sup>+</sup>17, WC04, WRNK03]. **Hypercubes** [Li00a, LX19, Nak03, Zaj09, ZLL20, ZYZX18]. **Hypermesh** [LYH<sup>+</sup>15]. **ID** [CCD07]. **ID-Based** [CCD07]. **Ideal** [APP91, Mas19]. **Ideals** [DT20]. **Idempotency** [Leu16]. **Idempotent** [KP10b]. **Identical** [LLQ06]. **Identifiable** [Jai95]. **Identification** [CL07b, Jai98]. **Identifying** [AES18, Arn17, CIRS08, CCI12]. **Identity** [Faa19, FZT14, LYX<sup>+</sup>19, LH11, MLO17, TFS19, WZCH19, ZYZ<sup>+</sup>19, ZPXX17]. **Identity-Based** [FZT14, LYX<sup>+</sup>19, LH11, MLO17, TFS19, WZCH19, ZYZ<sup>+</sup>19, ZPXX17]. **IDPM** [LJH<sup>+</sup>17]. **II** [BJ07b, Ros00]. **III** [DMSS16]. **Image** [MPV04]. **Images** [CDLW05, DE08, FRS06, IN08, KS06, PS12a, SY10]. **Immediate** [AHR02]. **Immunity** [EAB<sup>+</sup>16, LPS07, TCT14, TJZ13, ZWCL14]. **Implement** [Cha02]. **Implementation** [BCPR07, DK12, HST01, LPP92, MHT09, NWK05, NKW08]. **Implementations** [BBFZM06, DEMENT05]. **Implementing** [JHK08]. **Implication** [Lin08b]. **Implications** [BV08]. **Implicit** [Cha02, vdHM92]. **Importance** [FCS05]. **Imprecise** [HL04]. **Impreciseness** [CTZ01]. **Imprecision** [Cha97]. **Improved**

[AMT20, DGN07, Dom04, Gro03, Han13, HW17, JZ16, Leu04, LJH<sup>+</sup>17, PR00, Sal18, SS07b, WLC12]. **Improvement** [BC12, EG02]. **IMRT** [CHWX09]. **In-Network** [BR SRC11]. **In-Place** [GPC09]. **Inclusion** [BCR11, CTZ01]. **Incompatible** [Jan93]. **Incomplete** [KHL C12]. **Incompleteness** [Fin19]. **Incremental** [DZ00, PNN<sup>+</sup>10]. **Independence** [ÇA18, HKT00]. **Independent** [AWF03, CK07, GNP<sup>+</sup>06, MTNN99, NGHK15, TCLS10, Ueh99, YCTW10]. **Indeterminate** [SW09]. **Index** [Ano97, Ano98, Ano99, Ano00, Ano01a, Ano02, Ano03a, Ano04a, Ano05a, Ano06, Ano07, Ano08, Ano09, Ano11, Ano12, Ano13, Ano14, Ano15, Ano16, Ano17, Ano18, Ano19, BO97, FFH15, GNP<sup>+</sup>06]. **Index-Shuffle** [BO97]. **Indexed** [BC06]. **Indexing** [PAS08, ŽM11, ZHZ11]. **Indicators** [MS04]. **Induced** [AWF03]. **Induction** [TY03]. **Inductive** [BCC13, Kam95, Vik96, Wan04]. **Industrial** [FGH<sup>+</sup>07]. **Inequalities** [Faz08, FM13, LW05, LW06a]. **Inequality** [FP04]. **Inexactitude** [CMMR04]. **Infection** [FLP13]. **Inference** [BRSV13, MN00, Vik96]. **Infinite** [BHN R04, CK16, COT12, CTS18, DM12, Dom12, DK98, DSS15, EKKS18, Fin04, Fin12, IBS01, Jai95, KPS18, Löd15, Mel93, PI95, Ric19, Sao92, Sha04, Sta05]. **Infinite-State** [IBS01]. **Infix** [HWW06]. **Infix-Free** [HWW06]. **Info** [GI19]. **Information** [BB03b, CCF09, CST<sup>+</sup>17, DG90, Jür08, Li07, SB01, TWZ11]. **Informational** [GSZ09]. **Informed** [MD00]. **Infrastructures** [DW04]. **Inhibition** [XCC16]. **Inhibitors** [Sbu06]. **Initial** [Mee12]. **Initiality** [BE95]. **Initiations** [MM07]. **Inner** [DMMM14]. **Input** [DZ00, FK05, LZGN06, Lin07, MS19, Moh02, OS19]. **Input-Driven** [OS19]. **Input/Output** [MS19]. **Ins** [KRK16]. **Ins-Del** [KRK16]. **Insertable** [Kun16]. **Insertion** [CW11, EG02, HKNS16, KS11, KMK11, OY11, PPJY08]. **Insertion-Deletion** [PPJY08]. **Insertion-Query** [CW11]. **Insights** [RC11]. **Inspired** [AETZ05]. **Instance** [BIIN04]. **Instance-Specific** [BIIN04]. **Instances** [HHH07, IMS03]. **Instruction** [TV94]. **Insulated** [LH11]. **Integer** [FZ02, HHH07, Hit20, PA98]. **Integers** [SMS92, Dom12]. **Integrity** [BTK13, TK19]. **Intelligence** [dMLBPP20, Zho02]. **Intelligent** [DE08, LKM02, NH02]. **Interacting** [BCB12]. **Interaction** [JWB03, Yue13]. **Interactions** [JWB03]. **Interactive** [AKS95]. **Interchange** [HL01]. **Interconnection** [CP99, CX98, CD09, Hsu98, LYH<sup>+</sup>15, QD03, WQ97]. **Interconnections** [BF97]. **Interesting** [HPV99]. **Interface** [DE08]. **Internetworking** [GD98]. **Interplay** [GGJ<sup>+</sup>19]. **Interpolate** [Fre02]. **Interprocedural** [TY03]. **Intersection** [BCD14, CGKN08, CGKY11, EHS15, HS08, YJ05]. **Interstage** [SS07b]. **Interval** [CPC99, EL13, GP17, NTSH06, SS99, ST99]. **Intra** [DDM07]. **Intra-Molecular** [DDM07]. **Intractable** [YHK14]. **Intramolecular** [IPR07]. **Intransitive** [WO03]. **Intricacies** [CHKL07]. **Introduction** [BBM90, NO99]. **Intruder** [ISAZ08]. **Intuitionistically** [TW09]. **Inverse** [ACFE09, FK13]. **Inverses** [Bir11]. **Invertible** [Dub95, Sut14]. **Investigations** [Pig15]. **Involution** [BCN12]. **Involutively** [KM07a]. **Involving** [Pan91]. **Iota** [dSMOC18]. **Iota-Delta** [dSMOC18]. **IP** [LOD07a, LOD07b]. **Irreducible** [WXF16]. **Irregular** [MS99b]. **Irreversibility** [AHK17]. **Isomorphic** [BVM00]. **Isomorphism** [AV96, Gre96, RK09]. **Isoperimetric** [AE99, BS16, RZ12, WFG15]. **Isotopisms**

[BH11]. **Isotropic** [WNF20]. **ISPAN** [Pal01a]. **Issue** [Ano01c, BRST07, CD02, CVM20, Hin01, HO00, Hsu98, LC02, Pal01b, Pre01, RS00, TY02, Yu02, YYW19, Zom01a]. **Issues** [Ami05, BF97, Cas05, RHS10, vdHM92]. **Items** [BLM15]. **Iterated** [BvdB18, Sta05]. **Iteration** [BE92, BE93, CLW09, FL12, Sut14]. **Iterative** [KPSC08, MMP10, ST16, Smy12].

**Jacobsthal** [PS02]. **Job** [BS01, JMSEO5, Li01]. **Jobs** [CYZ14, FCS05, Jan93, JSO10, LY94, Zaj09]. **Join** [CGKN08, SEE99, YB19]. **Joint** [Coo17]. **Jordan** [Cai94]. **Journeys** [XFJ03]. **JPEG** [KS06]. **Jumbled** [BCFL12]. **Jumping** [BHK19, CFY16, KM15, MS20, MZ12, Vor18]. **Jürgen** [BRST07]. **Justification** [VS93].

**k-Isoperimetric** [WFG15]. **kernels** [ACM11]. **Key** [GKS17, HLH19, KMZS19, LYX<sup>+</sup>19, LH11, MNS11, SNWW06, SNJ11, TYM<sup>+</sup>17, WLC12, WZ15]. **Key-Insulated** [LH11]. **Keyed** [MMS17]. **Keyed-Function** [MMS17]. **Keyword** [HLH19]. **Kindhearted** [SSS13]. **Kinds** [HG11]. **Kinetics** [HFLD09]. **Kintala** [KMW12]. **Kit** [HPV99]. **Kite** [XHLF02]. **Kleene** [BC06, GN11, HSS07]. **Knapsack** [KS10]. **Knödel** [BHL<sup>+</sup>97]. **Knot** [San13]. **Knowledge** [BLR09, Pan91, ROK08, WCD<sup>+</sup>14, vdHM92]. **Known** [XC15, ZH13]. **Kolmogorov** [Jai95, Sch02]. **Kronecker** [CV14]. **Kuratowski** [BGS11, JPŠ19].

**l** [FMV13]. **Label** [HZZT12]. **Label-Guided** [HZZT12]. **Labeled** [AMT20, DHR08, Fuj17]. **Labeling** [Cal15, IN10, MAN05]. **Labelings** [LLW18]. **Labelling** [NCC<sup>+</sup>07]. **Labels** [HZZT12]. **Laceability** [LLY13]. **Lambda** [Hir91, TST01a, PT90]. **lambda-Calculus** [PT90]. **Lambda-Representable** [TST01a]. **lambdaPi** [Pym92]. **lambdaPi-Calculus** [Pym92]. **LAN** [GD98]. **Language** [BRST07, BV98b, CC05, CDJ09, Cos90, DH05, DGMM15, ES01, Fin12, GKRS10, HKS13, HJK12, IR14, MM05, MRS97, McN90, Mer08, Okh05, OY11, PS02, Pri06, Rov00, YS13]. **Languages** [Ada10, AK06, AK10, AT16, BGN10, BMS92, BCR11, BCD14, BC06, BJ07a, BHK05, BCC<sup>+</sup>96, BKW02, BGS11, BL12, BT13, Brz13, BL14, BD19, CPY02, CSV02, CL14, COT12, DK11, DES09, DJ12, Dom04, DK98, DV14, DPS97, EH15, EHS15, EIM18, ÉO13, Faz11, FLST12, Fin04, GN11, GTCV19, Géc07, Gia11, Glö07, Gol90, HWW06, HS08, HS11, HK03, Huy91, IJT<sup>+</sup>93, IW07, IS12, Jež08, JM11, Jir14, JPŠ19, JP06, KKS05a, KP10a, KP10b, KEH16, KLH16, KY96, Kog18, Kör03, KMG11, KMS06, KM19, KRK16, LNP16, LZ93, LO13, Leu16, MP07, Mas19, Mig90, ND02, Ogi94, Oka99, Okh03, OY11, PRY01, PPJY08, Pig09, PP14, Pig15, Pin12, Rav08, RS12, Rei07, Sch13, Sel08, Shu07, Shu14, SR00a, SWZ97, Sta05, Sta07]. **Languages** [Tei17, TSZ16, Tra02, YJ05, YZ07, ZQL12, vLW15, GP13, Ata11]. **Laplacian** [QFL<sup>+</sup>15]. **Large** [BIIN04, BS15, DCS13, DEMENT05, FPPS03, Fin19, FGH<sup>+</sup>07, HH12, MDL97, Sha04, WRNK03, Won96]. **Large-Scale** [DCS13]. **Late** [LY94]. **Latency** [IN10]. **Lattice** [MLO17]. **Lattice-Based** [MLO17]. **Latticed** [KL10]. **Lattices** [BNBN20, BOV08, DE08, LYX<sup>+</sup>19]. **Laws** [BE95]. **Layout** [CP99, Nak03]. **Layouts** [GKKP99]. **LCD** [FLFR19, HSS19]. **LDPC** [BBFZM06]. **Leader** [AOSY10, FDFZB12, FZAM08, XS06]. **Leaf** [BV98b]. **Leakage** [HHP17, ZYZ<sup>+</sup>19]. **Leakage-Resilient** [ZYZ<sup>+</sup>19]. **Learnability** [KY96, Oka00]. **Learnable** [Oka99]. **Learning** [CM92, CJS92, Cha97,

KL00, LZ93, PFG<sup>+</sup>01, SS01, Tor13, Tor15]. **Left** [BCHK09]. **Left-Linear** [BCHK09]. **Leftmost** [DFP99, MS16a, MS16b]. **Leibniz** [Sel98]. **Lemma** [GTCV19]. **Length** [AE02, DS96, FLFR19, Gus13, Mar09, Pro96, QLWL06, SRN<sup>+</sup>20]. **Lengths** [BR18, FT09, GP15, dBDZ19]. **Lessness** [FH05]. **Letter** [KP10b, Wid12]. **Letters** [CK16, LRR08]. **Level** [PS12b]. **Levels** [BLS<sup>+</sup>05, BHK05]. **Lexicographically** [Ueh99]. **LFSR** [WGD18]. **Library** [AMR05, RR06]. **Life** [EMR10, Rya15, FNI16]. **Light** [Hea11, Rov00]. **Lightweight** [HCETPL<sup>+</sup>12]. **Like** [CFG12, CVPV08, HV02, HK11, HLH19]. **Limit** [APMP17, Gol90, Oka99, Oka00, Sch02]. **Limitations** [HJ91, LO11]. **Limited** [HT12, KAPF05, Mas13, PP14, RRT99]. **Limiting** [AP90, CJS92, RS17, Vik96]. **Limits** [Ueh99]. **Lindenmayer** [BV20, Das04, DV11, HT12]. **Lindström** [BV98b]. **Line** [CGL12, FPS02, KL05, Mas04, Pat06, Prû17]. **Linear** [AK14, AMR15, BC06, BÉ11, BCHK09, CFPR03, DPR07, DI02, DGN07, FZ02, GV03, Gra90, KK19, LC18, MOM91, MTNN99, MGCVDIP20, Nak03, Okh03, RLWW96, RC05, SFL17, Tei17, WGF16, YW20, ZYYH14, vdM00]. **Linear-Time** [CFPR03, MTNN99, RLWW96]. **Linearly** [CM92, YCL11]. **Link** [BY18, FWZ15, YB19]. **Linkable** [LW06b]. **Linkage** [OW92, VJDT05]. **Linked** [ACV13, KK07, Lin08a]. **Links** [Dre07, GKKP99, WP08]. **List** [Nak04]. **Literally** [KP10b]. **Liveness** [BHK18a, JC03]. **LKH** [SNWW06]. **Load** [Hei97, Li00a, MD00, ST01]. **Local** [AE02, Ars15, CYS<sup>+</sup>12, CTS18, FL12, HN06, IN05, IN08, JP06, LSWW13, LPS07, RS13, XZY19]. **Local-Connectivity** [XZY19]. **Localities** [Cas95, LZGF16]. **Locality** [RR04]. **Locally** [Fri10, HYL20, HJ91, RS12]. **Locate** [DSS08]. **Location** [MG14, Pre90, TZ11, XS11]. **Locations** [NR18]. **Löf** [Tsu01, TST01b]. **Log** [GWL02, MM11, TV94]. **Log-Gain** [MM11]. **Logic** [Ano01c, AH11, BM90, DGK08, FMC04, FT11, GN04, GSZ99, HV02, HS95, Hin01, Lin08a, Luc09, Lüc18, MOM91, Oga00, Pre01, Rov00, RKRR02, Sal13, SMS92, Sub90a, Sub90b]. **Logic-Based** [Luc09]. **Logical** [D's03, HKKŠ13, KM17, MCS08, RW11]. **Logically** [DK98]. **Logics** [DP14, LRT92, Pen93]. **LogP** [BNR99]. **LogPQ** [TH01]. **Logspace** [HJ97]. **Longest** [AILR16, AE05, DD13, UU07, Won01]. **Look** [AE04]. **Look-Up** [AE04]. **Lookahead** [Fuj16, RS07]. **Lookup** [SK04]. **Loop** [BAK12, CHA<sup>+</sup>92, JS97, Leo03]. **Loopless** [TV07]. **Loops** [Sem20]. **Lossless** [CDLW05, KK05, XHLF02]. **Lossy** [PRS98]. **Low** [IN10, KPSC08, WPZ16]. **Low-Dimensional** [KPSC08]. **Low-Hit-Zone** [WPZ16]. **Low-Latency** [IN10]. **Lower** [CE98, FY08, Gus13, LHG11, Uen13, ZK19, dBDZ19]. **LR** [FZCFB08, Okh06]. **LR-Mesh** [FZCFB08]. **LRC** [WNF20]. **LRU** [De 06]. **LSC** [HK02]. **LSP** [Ric19]. **LTL** [DPR07, MW05]. **Łukasiewicz** [Sta07]. **Lyndon** [SY10, Suc90].

**M** [BSG03, PPR18]. **m-Bonsai** [PPR18]. **M-Heap** [BSG03]. **Machine** [HFLD09, HW17, KS10, LLZ07, Mal18, PY04, PFG<sup>+</sup>01, Rud15, SSS09, SS07b, vLW15]. **Machines** [Cap96, CGKN08, Dub95, FPP03, FBHH01, GJKS18, HIIW01, HHW99, HPP99, HJ17, HIR<sup>+</sup>92, IJT<sup>+</sup>93, Iba02, IDY08, IS12, IIT91, IIK<sup>+</sup>04, Jan93, Kap05, LLQ06, Mer08, Pet11, Slo95, YS13]. **Made** [FKV06]. **Magic** [HJK12, Jir11, Van05]. **Makespan** [DLC<sup>+</sup>14]. **Making** [vdHM92].

**Malleable** [LTW02]. **Management** [SVSN01, TZ11]. **Manufacturing** [PFG<sup>+</sup>01]. **Many** [BSOR10, GS18, LMZC20, MRT95, Ole92, YCL11, Zan91]. **Many-One** [Zan91]. **Many-Sorted** [MRT95, Ole92]. **Many-to-Many** [LMZC20]. **Map** [Wid12]. **Mapping** [AP92b, Ata11, EZ01, Hei97, IMP12, Teh15]. **Mappings** [LO10]. **MapReduce** [AS18]. **Maps** [BFM06, BKP18, HCG96, KPSC08]. **Marked** [KNR18, NR18]. **Market** [DLW02]. **Markov** [DHR08]. **Markovian** [HJW11, MGGP08]. **Martin** [Tsu01, TST01b]. **Martin-Löf** [Tsu01, TST01b]. **Mass** [HFLD09]. **Mass-Action** [HFLD09]. **Massively** [AP92b]. **Master** [DPR<sup>+</sup>08, GS12a, LYX<sup>+</sup>19]. **Master-Slave** [GS12a]. **Master-Worker** [DPR<sup>+</sup>08]. **Match** [HMZ05]. **Matching** [Aku06, BLP18, BH02, BZ13, BCFL12, CCFG12, CF06, CCF09, CLLL08, CB09, CPC99, CHZ06, DES09, FL09, FPPS03, Fia08, GW18, Han13, IST05, KS06, KLH16, LJH<sup>+</sup>17, LCL06, MHT09, ND02, NRS18, Prü17, SKL03, SW09, WH03, XZL<sup>+</sup>19, Zha17, FG08]. **Matchings** [DGL93, HCG96]. **Mate** [CP06]. **Mate/Drip** [CP06]. **Mathematical** [BCC13, NAK<sup>+</sup>15]. **Matrices** [BM16, BMS18, BCMS20, BL01, Cai94, HHH07, HN06, MS12, Oli13, PT18, SY10, Şer09, SHN09, SMAN13, Teh16a, WF17]. **Matrix** [Ata11, DFP99, DPR<sup>+</sup>08, HT04a, HT04b, KRK16, MS04, MS16a, MS16b, Teh15, WXF16, Zet11]. **Matrogenic** [AP92a]. **Matter** [MCM<sup>+</sup>11]. **Max** [Mas04, Poo04, HW00]. **Maximal** [AWF03, Bur12a, DD08, DGL93, FY08, Luc09, PR12, TSFZRP17, Ueh99, XZY19]. **Maximality** [KKS05a]. **Maximally** [WFG15]. **Maximization** [CS93]. **Maximize** [AJMO11, CR14]. **Maximizing** [Ros00, SRN<sup>+</sup>20]. **Maximum** [AMT20, AMOZ07, BT07, BL01, BVM00, CPC99, DJL<sup>+</sup>07, FKT07, MM97, Wan04, Won96]. **MCFLs** [ÉI14]. **Mealy** [CG06, KPS18]. **Mean** [BR08, GZ12]. **Mean-Payoff** [GZ12]. **Meaning** [HKKŠ13]. **Means** [CCP05, CHWX09, PPJY08]. **Measure** [AKK19, CS93, Sta05, Ueh99]. **Measures** [AT15, BLM15, BCC13, KS19, PSA17, RR04, Sch02]. **Measuring** [MKB<sup>+</sup>11]. **Mechanisms** [Obt06]. **Meet** [LJ17]. **Meet-in-the-Middle** [LJ17]. **Meets** [BSS12, FFH15]. **Megabase** [BBM<sup>+</sup>12]. **Mem** [CP06]. **Membership** [AK06, Arv97, Fuj17, Loh10, MS20, Nag20]. **Membrane** [BMSMT11, CMMR04, DI05, FT11, GPPJR13, MB06, Nis07, Obt01, Obt06]. **Membranes** [PDPPJ11, Pău00, PPR02, PPRPS11, PLMZ11]. **Memorial** [Fül17, KMW12]. **Memory** [BLR09, FBHH01, HPP99, KZ10, Mor10, Smy12]. **Merge** [WO03]. **Mergeable** [CS99]. **Merged** [DD13]. **Merger** [INY07]. **Merging** [CP03]. **Merlin** [CCPS04, Vin05]. **Mesh** [EG02, FZCFB08, ISAZ08, Li01, RM98, ÜS02, WC04]. **Meshes** [BT00, FZEBO5, JW08, Mat04, XHLF02]. **Message** [EGPS10, FBHH01]. **Messages** [MN00]. **Meta** [SVSN01]. **Meta-Computing** [SVSN01]. **Metaheuristic** [HCETPL<sup>+</sup>12, LTZ12, SS12b]. **Metalinear** [MS07, Sun05]. **Metalogic** [Cos90]. **Method** [ACFE09, BNBN20, EH12, FK13, GMNS15, IN08, KM02, Li00a, TFF18, ÜS02]. **Methods** [CCM97, Fre08, KKS05a, MZ01]. **Metric** [CLT09, XS11]. **Meyniel** [RR99]. **Microarray** [ATK12]. **Middle** [LJ17, VW93]. **Millionaire** [GKS17]. **Min** [KR97, Tor13, HW00]. **Min-Degree** [Tor13]. **Mind** [LZ93, Vik96]. **Minima** [MS99a]. **Minimal** [ARV07, AMR08, BBC00, CIY01, CPY02, CP03, DWS15, GRV10, HYN08, HN04, HT04a, HT04b, HJ16, HJK18, Jai95,

Jai98, JS97, JMR91, JJS08, MB17, Shu11, Suc90, Szw95, TA17, Teh18]. **Minimality** [Tam08]. **Minimalizations** [Pol05]. **Minimax** [HL04]. **Minimization** [AHK07, FSM11, GLV14, JM13, KLB13, MQ11, MQ12, ND02, Vin05, Bad09]. **Minimize** [AMOZ07, LRR08, Mas04]. **Minimizing** [DFLL02, GKKP99, HJ13, HJ17, KS10, Kör03, LY94, LLQ06, PY04]. **Minimum** [AJMO11, BGRY16, BBB<sup>+</sup>18, BB04, BRSV13, CYS<sup>+</sup>12, DGN07, DJL<sup>+</sup>07, DLC<sup>+</sup>14, FPPS03, Fuj16, GMU15, GCK08, KK10, KHLC12, MPV04, MAN06, QFL<sup>+</sup>15, Tor13, WAF03, Wan04]. **Minimum-Process** [GCK08]. **Mining** [GWL02]. **Minor** [NRT00]. **Miss** [Leo03]. **Mitrana** [CVM20]. **Mixed** [CYZ14, DI02]. **Mixed-Signal** [LWJ<sup>+</sup>10]. **ML** [Has00]. **MM** [ZLL20]. **Mobile** [BFMBS11, BF07, BT17, BDDN01, CIS03, DSS08, FPPS03, FHL07, GCK08, HT09, IML04, LBJ03, MM07, SB12, TZ11, WP08, Zom03]. **Mod** [HKT00, SUZ13]. **Mod-** [HKT00]. **Modal** [DL12]. **Mode** [DI05, Fre05, Mas09, WLC12]. **Model** [ACDL18, BCB12, BNR99, BMS12, CFMR05, CGR13, Çev20, CFH<sup>+</sup>03, DW03, EHK06, FZFDCHB05, HW10, LYX<sup>+</sup>19, LAHN14, LYG17, LR04, Nak04, Sak01, Sch10, SP04, Špr09, Tha91, TH01, YW06, ZLL20]. **Model-Based** [BCB12]. **Model-Checking** [CGR13]. **Modeled** [CLT14]. **Modeling** [BCC<sup>+</sup>11, Cas05, JRPIP08, KSS08, LCY12, PSS12, Sun11, XBE02]. **Modelled** [HFLD09]. **Modelling** [AH07, BDL08, DM05, SK01]. **Models** [APP91, BBFZM06, BZ10, CTS18, DEMT05, For10, HJ97, HJW11, IP08, KPM15, LWJ<sup>+</sup>10, LW06b, dMLBPP20, Lüc18, Mal18, RCTC<sup>+</sup>09, RS17, Sah01, Suc90, WY05]. **Modes** [FFH15]. **Modest** [Ros90]. **Modification** [Rud15]. **Modified** [BSG03, BHL<sup>+</sup>97, IIT91, KYZS17]. **Modifiers** [AG01]. **Modular** [BPZ07, DS02, Hit20, RCTC<sup>+</sup>09]. **Modules** [BJ07b]. **Modulo** [CGR13]. **Molecular** [DDM07, EHK06]. **Molecules** [FMC04, FK05]. **Monadic** [SMS92, vdM00]. **Monogenic** [LV08]. **Monoid** [KM08, KLS05]. **Monoids** [BR08, BS92, Bur12a, DM11, Géc07, Loh05, MR91]. **Monomial** [Kur20]. **Monotone** [DDD18, Kam95]. **Monotonic** [ADHR09, ACV13, TY15]. **Monotonicity** [JC03]. **Moore** [CFG12]. **Moore-Like** [CFG12]. **Morphic** [Dur13, FRS06, Hon12, NP09, OY11, PS12a]. **Morphism** [Ram05]. **Morphisms** [Hol11, JP04, Kar09, PPJR07, RS04, Teh16b]. **Morse** [DSS15, Ram05]. **Mosaic** [BRSV13]. **Mosses** [AMR09]. **Most** [Brz13, BD19, SKL03]. **Most-Specific-Rule** [SKL03]. **Motif** [PRN13]. **Motifs** [IMP<sup>+</sup>05]. **Move** [FM96]. **MP** [MM11]. **MPEG** [DE08]. **MPEG-7** [DE08]. **Muller** [Arn17, FZ12]. **Multi** [AKS14, ABH17, APMP17, BCC<sup>+</sup>96, CCD07, CGKN08, HP09b, JF18, KMW14b, KMW14a, Mal15, MX11, NCC<sup>+</sup>07, RR06, SK01, TYM<sup>+</sup>17, TFS19, Ver09, WM05, YBI11, ZC13]. **Multi-Cores** [MX11]. **Multi-Exponentiation** [HP09b]. **Multi-Head** [KMW14b, KMW14a]. **Multi-Objective** [WM05]. **Multi-Party** [TYM<sup>+</sup>17]. **Multi-Processor** [RR06]. **Multi-Push-Down** [BCC<sup>+</sup>96]. **Multi-Pushdown** [AKS14, ABH17]. **Multi-Receiver** [CCD07, TFS19]. **Multi-Secret** [ZC13]. **Multi-Sequential** [JF18]. **Multi-Stability** [APMP17]. **Multi-Tape** [CGKN08, NCC<sup>+</sup>07]. **Multi-Tokens** [SK01]. **Multi-Track** [YBI11]. **Multicast** [FPS02, SNWW06]. **Multicasting** [Gon01, XLC<sup>+</sup>04]. **Multicomputers** [MS99a]. **Multicounter** [Iba02]. **Multicriteria** [CMWZ19]. **Multidigraphs** [Fuj17]. **Multidimensional** [KPS93, Tho06]. **Multienvironment**

[MDAPHPJ<sup>+</sup>11]. **Multihead** [Mac96, Slo95]. **Multihop** [CYS<sup>+</sup>12]. **Multikay** [KLP20]. **Multilingual** [CK08b]. **Multimessage** [Gon01]. **Multioperator** [SVF09]. **Multiparty** [KLP20]. **Multiple** [CF06, FK05, GD12, Lin07, LZGF16, MB03, Mat04, NR18, RVT06, XBE02, YCTW10]. **Multiple-Sided** [XBE02]. **Multiplication** [MX11]. **Multiply** [ACV13]. **Multiply-Linked** [ACV13]. **Multiprocessor** [BLR09, CD09, SS12b, YH11]. **Multiprocessors** [WR16]. **Multipseudoperiodic** [MDGH13]. **Multiresolution** [XHLF02]. **Multisequencer** [SK01]. **Multiset** [BPT16, BMR<sup>+</sup>14, CG06, Faa19]. **Multisets** [Bas97, CG09]. **Multistage** [KAPF05]. **Multitape** [IT13]. **Multitriangle** [WQ97]. **Multivalued** [Lin08b]. **Musical** [CCF09, FMN06]. **Musical** [CCF08, CIRS08]. **Mutants** [MCS08]. **Mutex** [LCY12]. **Mutual** [KG11]. **Mutually** [YSM<sup>+</sup>00a].

**NAAP** [LBJ03]. **Naïve** [ZLW<sup>+</sup>17]. **Name** [CB09]. **Nameless** [Kam98]. **Natural** [Cha97]. **Nature** [AETZ05]. **Nature-Inspired** [AETZ05]. **Near** [BW14, HT09, XCX17]. **Near-Bent** [XCX17]. **Near-Optimal** [HT09]. **Nearest** [HL01]. **Nearly** [BJ07a, KS19]. **Necessary** [WWT20, ZWW<sup>+</sup>14]. **Negative** [CS18]. **Neighbor** [ABT16, BTK13, BTO17, HL01, KA18, WQY16, LBJ03]. **Neighbourhoods** [DP90, NRS18]. **Nerode** [SMS90]. **Nested** [CZTH13, DP14, FGL<sup>+</sup>90, Gre96, HLW09, RT16]. **Net** [LPC11]. **Nets** [AH11, BCB12, GRV10, JC03, MOM91, Muk92, RHS10, YWY94, Yen09]. **Network** [BRSRC11, Cas05, CL98, CX98, CCG<sup>+</sup>11, DR05, FZ03, KR97, Klo96b, LYG17, LOZ98, LPS07, Lug11, MKB<sup>+</sup>11, Oka98, RR18, WQ97, ZYYH14]. **Networks** [AWF03, AOSY10, AHL<sup>+</sup>13, AO11, BV98a, BY18, BNS03, BLR20, BDDN01, CP99, CDPT16, CIS03, CFMS15, CL03, CYS<sup>+</sup>12, CHA<sup>+</sup>92, Cig04, CD95, CD09, DHIÖ97, DGN07, DCS13, DT20, DM08, FPPS03, FRV19, GKKP99, GSD03, GCH20, GNC<sup>+</sup>03, HKV17, Hei97, Hsu98, ISAZ08, JS97, KAPF05, KKP97, Láz13, Li12a, LYH<sup>+</sup>15, LMZC20, LBJ03, LC18, MMS05, MCM<sup>+</sup>11, MGCVdlP20, PPR02, QD03, Ros00, SB12, SP04, TL99, WLF03, WD03, WY05, WZCH19, XLC<sup>+</sup>04, XFJ03, ZC13, DDHL11]. **Neural** [FIO08, IW07, KMG11, PPJR06, PPJR07, PPJS07, SRPC11]. **Newcomb** [Rav08]. **NFA** [JMR91, Leu05, Pol05, RS07]. **NFAs** [CCP05, DESW05, KS19, Van05]. **NFSR** [WGD18]. **NL** [DK11]. **NL-Complete** [DK11]. **NLC** [Joh00]. **No** [Nak04]. **Node** [HKV17, WQ97, WY05]. **Node-Disjoint** [HKV17]. **Nodes** [IML04]. **Noisy** [MG14]. **Non** [AG01, Ada10, AS18, BM90, BCHK09, BD19, CD15, CK07, Dai97, DPR07, DESW05, ES01, FLST12, Fre08, GJV00b, GRB03, HL01, IMS03, Jež08, KZ10, Kap05, Kut05, MC13, PP11, TY15]. **Non-Abelian** [IMS03, PP11]. **Non-Blocking** [Dai97]. **Non-Boolean** [PP11]. **Non-Constructive** [Fre08]. **Non-Definability** [ES01]. **Non-Deterministic** [Ada10, KZ10, MC13]. **Non-Ending** [CD15]. **Non-Floundering** [BM90]. **Non-Linear** [DPR07]. **Non-Periodic** [CK07]. **Non-Primitive** [FLST12]. **Non-Qubit** [GRB03]. **Non-Recursive** [Kap05, Kut05]. **Non-Regular** [Jež08]. **Non-Returning** [BD19]. **Non-Standard** [AG01]. **Non-Symmetric** [GJV00b]. **Non-Synchronizing** [TY15]. **Non-Uniform** [AS18]. **Non-Uniform-Degree** [HL01]. **Non-Uniqueness** [DESW05]. **Nonblocking** [WM13]. **Nonce** [KMZS19]. **Nonce-Based** [KMZS19]. **Noncounting**

[KY96]. **Nondeterminism** [HKKS13, PSA17]. **Nondeterministic** [BKW02, Cha02, CC05, GPS14, HK03, HK09b, HJ14, HJ17, HK19, JRPIP08, JJS08, KO18b, Mar09, Sao92, Tha91, Vin05]. **Nondeterministically** [HHN<sup>+</sup>95]. **Nonenumerable** [Sch02]. **Nonexistence** [ZLL11]. **Nonlinear** [HG11, Kur20, PP11]. **Nonlinearity** [CH15, Car11, LHG11]. **Nonregular** [Mer08, YS13]. **Nonsingular** [XLZ19]. **Nonstandard** [Bee95, BSBZ08]. **Nonterminals** [KK07]. **Normal** [Asv07, BMMR19, Cai94, Ési12, FSM11, Lin08a, RKRR02, VS93]. **Normalization** [Moh02]. **Note** [AHR02, BB99, BHL<sup>+</sup>97, BS16, CKK02, FM13, GMU15, IIK<sup>+</sup>04, LZ15, Mac96, Mas13, Szw95, YB19, Zaj09]. **Notes** [Okh07]. **Notion** [Gra90]. **Notions** [IYD05, SNJ11]. **Novel** [DCS13, LYX<sup>+</sup>19, LH11, SRR15, SGZ02]. **NP** [BGI<sup>+</sup>18, Dic93, GP13, GI19, GSZ09, MW05, Nag20]. **NP-Complete** [GI19, BGI<sup>+</sup>18, MW05, GP13]. **NP-Completeness** [Nag20]. **NP-Hard** [Dic93]. **NP-Pairs** [GSZ09]. **Number** [AMR15, AB17b, AE99, CP03, ÇA18, CFIJ10, DV11, Dom04, FY08, FRV19, FT11, GRRS14, HB06, HJK12, JWB03, KA18, LZ93, LY94, Pan91, PR12, RS01, RRT99, Vik96, WQY16]. **Numbering** [MNS11]. **Numberings** [Jai95]. **Numbers** [BS16, BPT06, CK18, HFLD09, Jir11, LO11, PDPPJ11, RS15, Van05, Wan04]. **Numeration** [JP04]. **Numerical** [CCM97, SGZ02].

**O** [Fle96, OM96]. **O-Trees** [OM96]. **Object** [HK02, LX94, MT95a, YZ07]. **Object-Oriented** [LX94, YZ07]. **Objective** [WM05, YTLC02]. **Observable** [AT12]. **Observer** [CCM11]. **Observer-Based** [CCM11]. **Observing** [Cas95]. **Obtained** [BMS18, CP03]. **Occurrences** [CFIJ10, MS04, Sal07, SY10]. **OCR** [CB09].

**Octal** [GJMP06]. **Odd** [Faa19, TJZ13]. **Off** [KL05, Mas04, KM18]. **Off-Line** [KL05, Mas04]. **Offline** [CW11]. **Offs** [Kap05, KKP97, Kut05]. **Okamoto** [TFS19]. **omega** [SMS90, CL14]. **omega-Tree** [SMS90]. **On-Demand** [PZX07]. **On-Line** [CGL12, FPS02, KL05, Mas04, Prů17]. **One** [AK14, BBP11, Ber13, BMP15, BKP18, CFY16, DI05, Dub95, HJP<sup>+</sup>13, HK19, HIR<sup>+</sup>92, IS12, KL12, KMW14b, KMW14a, LP11, NS18, Obt01, PB20, SKL03, Slo95, TYM<sup>+</sup>17, Zan91, ZWW<sup>+</sup>14]. **One-Cluster** [BBP11]. **One-Dimensional** [BKP18, Dub95, SKL03]. **One-Membrane** [DI05]. **One-Round** [TYM<sup>+</sup>17]. **One-Time** [HK19]. **One-Turn** [AK14]. **One-Variable** [NS18]. **One-Way** [BMP15, CFY16, HIR<sup>+</sup>92, IS12, KMW14b, KMW14a, Obt01, Slo95]. **Online** [BBB<sup>+</sup>18, BLM15, BHK<sup>+</sup>18b, CYZ14, DLC<sup>+</sup>14, FCS05, JP07, JZ16, Pal03, WZCH19, ZZZ16]. **Onto** [EZ01]. **Ontologies** [Zho02]. **Open** [GPPJR13, Tsu01, TST01b]. **Open-Ended** [Tsu01, TST01b]. **Operating** [DI05]. **Operation** [BHK05, CK08a, CLMP16, DH05, MR91, OS19, YB19]. **Operational** [BMSMT11, BHK19, Das19, ÉI14, KEH16]. **Operations** [AP92a, BGN10, CP06, CS96, CGKY11, CGKY12, FM96, FMC04, FT11, GNC<sup>+</sup>03, JJS18, KKS05b, PS02, SY07, SEE99, SD16]. **Operator** [AT16, BMS18, HJM19]. **Operators** [HW00, PR11]. **Opportunities** [Zom03]. **Optical** [BF97, KAPF05, LYH<sup>+</sup>15, LC18, PA98, Sah01, WH03]. **Optically** [BT00]. **Optimal** [AAA<sup>+</sup>09, AC05, BF07, CZTH13, CP99, Cal15, CDPR11, CS96, DH18, DSS15, FZ03, FM01, FOP05, FLFR19, GD98, GZ12, HT09, KLP20, KK90, KR08, Lag17, LZ15, Lüc18, MQ11, Nak04, OS01, OSZ92, Poo04, TCT14, TJZ13, WPZ16, WO03, WH03, XCX16, XCMT20, ZZT91, ZWCL14]. **Optimally**

[AAV00, GKS<sup>+</sup>19]. **Optimization** [JS02, KM90, KAPF05, MZ01, SSS09, WM05, YTLC02]. **Optimizations** [GV03]. **Optimize** [GSZ99]. **Optimum** [CD95]. **Option** [SGZ02]. **Optoelectronic** [Sah01]. **Oracle** [FL09]. **Oracles** [CISH07, FZT14, IN13, KL00, MM05]. **Order** [AES18, AB91, BYP95, BGM<sup>+</sup>18, DG98, DGK08, DZ00, EGPS10, KK19, Lar98, LHG11, Lin08a, Lug11, Set08, Szw95]. **Ordered** [AKS14, ABH17, Bas97, KL11, KO18b, Pro96, Yah12, ZB02]. **Ordering** [Com90]. **Orderings** [BC06, BÉ11, GHJS05, RC05]. **Orderly** [MAN05, ZH06]. **Ordinal** [Ési12]. **Organizing** [Láz13]. **Orientation** [AMOZ07, AJMO11]. **Oriented** [DSS08, LX94, XCC16, YZ07]. **Oritatami** [HKRS19]. **Orthoconvex** [ST93]. **Orthogonal** [DKSS11, WNF19]. **Oscillating** [HFLD09]. **Other** [DH96, PSA17, RS13]. **Outdegree** [AMOZ07, AJMO11]. **Outer** [MAN06]. **Output** [MS19, Ros00]. **Outputs** [RT16]. **Outsourced** [YMC<sup>+</sup>17]. **Overcoming** [DEKZ11]. **Overhead** [OM96]. **Overlap** [BHR09, CCM97, DSS15, HS11, LOPR18]. **Overlap-Free** [DSS15, HS11]. **Overlapping** [HT95]. **Overlaps** [AGM19]. **Overlay** [CDPT16]. **Overview** [BMSMT11]. **Own** [GW18].

**P** [FMV13, CV13, KMG11, PB20]. **P2P** [Li12b]. **Packaging** [FBHH01]. **Packed** [Zha17]. **Packet** [DES09, GFK98, MMS05, SKL03]. **Packing** [BDI<sup>+</sup>11, FFMW19, HJP<sup>+</sup>13, JZ16, LOPR18, MV11, Nag06, TSFZRP17]. **Packings** [CZTH13]. **Pairing** [CST<sup>+</sup>17, Ros03, Ver09, WZCH19]. **Pairing-Based** [CST<sup>+</sup>17, Ver09]. **Pairing-Free** [WZCH19]. **Pairs** [GSZ09, ST99]. **Palindromes** [DD06]. **Palindromic** [AACR18, BGI<sup>+</sup>18, BHNRO4, BR18, Çev20, DMMM14, FLST12]. **PAMA** [LCL06]. **Panconnectivity** [XZZY19]. **Pansiot** [GS12b]. **paper** [Tsu01]. **Papers** [CS02, CS00b, CVM20, Elb01, KMS02, KBH99b, Pal01a, SR00b, YSM<sup>+</sup>00b]. **Paradigm** [Sir15]. **Parallel** [AC05, AP92b, BS01, BCVVH07, BF97, BKM11, BKM12, BKM15, BBM<sup>+</sup>12, BZ10, CCM97, CF06, CCF09, CPJ06, CPC99, CR14, CVMVMV00, DP90, DD13, DGL93, DPS97, EAB<sup>+</sup>16, FBHH01, FNI16, GD12, HB06, Hea11, HS95, HW17, HN06, IMP12, Kan15, KS11, KSMMT18, LTZ12, LLQ06, LMM<sup>+</sup>12, LPP92, MS07, MIN11, MVMM02, MS99a, MDL97, OS01, OSZ92, Ott13, Ott15, Pal01b, Ros00, Sah01, SS99, SK03, ŠM05, TH01, Tru08, VG01, VJDT05, WM05, WH03, Zaj09, Zom03, ZC05]. **Parallelism** [BV20, IYD05]. **Parallelizing** [LR04]. **Parameter** [AT11, HL06, RZ12]. **Parameterization** [DD12]. **Parameterized** [ADHR09, CFRD08, RR18]. **Parameters** [KPS93]. **Parametric** [ACFE09, CE98, FK13, NTSH06]. **Parametrized** [FK19]. **Parent** [Lag14]. **Parenthesis** [Lag14]. **Parikh** [Ata11, AT16, BM16, BMS18, BCMS20, CFM12, Hon06, MS12, PT18, SY10, Şer09, SHN09, SMAN13, Teh15, Teh16a]. **Parity** [Fri10, FL12, GW18]. **Parsing** [Bas97, BIIN04, Kog18, Okh06]. **Part** [Ano01c, CS00b, Elb01, GJV00a, Hin01, JK14a, JK14b, KBH99b, Li00b, MS99b, Pal01a, Pre01, SR00b, YSM<sup>+</sup>00b, Zom01a, BJ07b, HT12]. **Partial** [AES18, BSOR10, BS12, BMMR11, BMMR12, FO07, GS18, IZN99, Lin08b, MRT95, PRS98, Pat06, PHPJRN<sup>+</sup>11, Smi95, dBDZ19]. **Partial-Total** [Smi95]. **Partially** [AT12, Bas97, KL11, Lag17, MR91]. **Parties** [XZL<sup>+</sup>19]. **Partition** [CZTH13, DJL<sup>+</sup>07, HPV99]. **Partition-Type** [CZTH13]. **Partitionable** [Li01]. **Partitioned** [Mat04]. **Partitioning**

[HO99, IZN05, JSPD03]. **Partitions** [BMS12]. **Partners** [RRT99]. **Party** [TYM<sup>+</sup>17]. **Passbits** [MB03]. **Passenger** [GH07]. **Past** [Gur16]. **Patches** [XBE02]. **Path** [AH11, AHL<sup>+</sup>13, BLL06, FT09, GVL07, HB06, JW08, KM18, LMZC20, LLW18, MVM07, Pro96, Yen09]. **Path-Controlled** [MVM07]. **Path-Equivalent** [GVL07]. **Paths** [DPS99, GR03, GKS<sup>+</sup>19, HKV17, LPC11, MPS99, RLWW96, UU07, YTN01]. **Pathway** [BCC<sup>+</sup>11, JRPIP08]. **Pattern** [BLP18, BCFL12, CCFG12, CHZ06, DPS97, FS05, IST05, KS06, LJH<sup>+</sup>17, MHT09, ND02, NRS18, SW09, ZYYH14, Zha17]. **Pattern-Matching** [SW09]. **Patterned** [SW17]. **Patterns** [BCN12, DPS93, LC18, Prů17, SK04]. **Paun's** [PHPJRN<sup>+</sup>11]. **Payoff** [GZ12]. **PC** [CVOV11]. **Peano** [Ruo96]. **Pebbles** [KMW14b]. **Peer** [AF20]. **Peer-to-Peer** [AF20]. **Peers** [Li12b]. **PEI** [VP99]. **Penalties** [WG17]. **Perfect** [AFB96, GR00, Kur20, PP11, Sun00]. **Performance** [BLM15, For10, HYLf20, KR97, Li12a, LKM02, NWK05, NKW08, PV98, Qua07, SK01, TZ11, TH01, WR16, YLZ14, YH11]. **Period** [APMP17]. **Period-Doubling** [APMP17]. **Periodic** [CKZ17, CK07]. **Periodicity** [BSBZ08, HN10]. **Periods** [BSOR10, CCI12, HG11, KPS13]. **Permitting** [GTCV19]. **Permutation** [Nag20, RM98, Wid12, ZC15]. **Permutational** [Oka98]. **Permutations** [CS18, Faa19, GKSZ19, LCXS19, QLWL06, Teh18, XC15]. **Persistent** [HK09a, Lag17]. **Personnel** [WD90]. **Perspective** [TV94]. **Petersen** [DHIÖ97]. **Petri** [JC03, AH11, BCB12, GRV10, MOM91, Muk92, RHS10, YWY94, Yen09]. **Phantoms** [JSPD03]. **Phase** [ZYLW12]. **Phenomenon** [Kut05]. **Photographs** [Ami05]. **Phrase** [MO10]. **Phrase-Structure** [MO10]. **Phylogenies** [HLY<sup>+</sup>04]. **Phylogeny** [AFB96]. **Physical** [AD12, JWB03, RS17]. **Pi** [Yue13]. **Pi-Calculus** [Yue13]. **Picture** [AGM14, BESW07, Gia11, SMAN13]. **Pictures** [AGM19, Fin04]. **Piecewise** [BKP18, KP10a, XC15]. **Pipelined** [BT00]. **Pipelining** [FM01]. **Pitching** [ÜS02]. **PKI** [AH07]. **PKI-Based** [AH07]. **Place** [GPC09]. **Placement** [AC05, DRDN08, URS07]. **Planar** [BPT06, KLB13, MTNN99, Pre90, RLWW96, Toš06]. **Planarity** [CDFK19, DOR06, HL06]. **Plane** [AAV00, Mar08b, Mar08a, MAN05, MAN06, MNN06]. **Plateaued** [XCX17]. **Platforms** [DPR<sup>+</sup>08, DEMT05, KSMMT18]. **Playing** [FZ12]. **Plays** [GW18]. **PN** [ZH13]. **Point** [Aku06, DD12, MB17, Pre90, RAB15, ZC13]. **Point-To-Point** [ZC13]. **Points** [DLT06, Kar99, SSK96, Toš06]. **polar** [ZWCL14]. **Polarizations** [FRV19]. **Polarized** [MGCVDIP20]. **Pollinating** [WM05]. **Polling** [TL99, Tse16]. **Polygon** [BJD20, KM18, SRN<sup>+</sup>20]. **Polyhedral** [AAH02]. **Polymorphic** [APP91]. **Polynomial** [AAV00, AP90, BCFR07, BB99, BLS<sup>+</sup>05, Cai94, Dic93, GKRS10, GO09, HW00, HT04a, HT04b, IZN99, Joh00, MX11, PLMZ11, Shu07, Tra02]. **Polynomial-Time** [IZN99]. **Polynomials** [EKKS18, RW11, TWZ11, XLZ19, ZC15]. **Polytime** [Cap96]. **POPS** [DR05]. **Popular** [Dar13]. **Population** [HJW11, Sun11]. **Port** [NN93]. **Portfolio** [YTLC02]. **Posets** [Bed18, Yah12]. **Position** [MCM<sup>+</sup>11]. **Positioned** [LK11]. **Positive** [CM92, HJ91, KY96, MAG09, Oka99, Oka00]. **Possession** [ZPXX17]. **Post** [DRS14, Fin12, HH11]. **Potential** [AES18, GQZ15]. **Power** [BMP15, CCFS07, DSS15, Fuj16, HIR<sup>+</sup>92, IPR07, JWB03, Kar09, Mal15, MRS97, Mer08, RHS10, RS04, Sal11, Slo95, SRPC11, Sta05, Sto92, Sut03, LBJ03]. **Powers** [CRSZ11, CFLJ10, Faz11, Sha04, Shu11,

YTN01, Ram05]. **Practical** [CSY03, Fuj17, PPR18, TH01, ZLW<sup>+</sup>17]. **Practice** [BCFR07, CCFG12]. **PRAM** [FPP03, For10, JHK08, TV94]. **PRAM-Algorithm** [JHK08]. **Precedence** [JSO10, KD99, LTW02]. **Preclusion** [CLLL08]. **Precoloring** [EL13]. **Predecessors** [AHR02]. **Predicate** [vdM00]. **Predicates** [SWZ97]. **Predictional** [ES01]. **Predict** [SB01]. **Prediction** [BDC90]. **Preemptive** [HL04, HLW09]. **Preface** [ASTZ12, AY99, Ano01b, Ano03b, Ano03c, Ano03d, Ano03e, Ano04b, Ano05b, BC14, BRST07, BN07, BN08, BFN10, BNF11, BFN12, BP11, Cal05, CP19, Cha03, CLR19, CVV08, CVÉ10, CVM20, DR06, DP13, Den02, DN11, DW11, DS08, DS11, DÉ12, DLMS12, Ési15, FSTY16, FGM<sup>+</sup>11, FKN11, GP08, GJ07, GH09, HP08, HP09a, HS17, HRS17, HK08, Hol12, HK15, HY06, IY07, IR09, IV18, Ito10, JR14, KO18a, MH12, MBR18, ML12, MP12, MNP12, MR13, NW03, NW04, NB06, NY10, PPJ06, PT07, PV13, PS18, SY05, Shu16, Sos09, Wan06, YN08, YI13, Yu11, YYW19, Zom01c]. **Preference** [FDFZB12]. **Preference-Based** [FDFZB12]. **Prefix** [AGM14, CDPT16, CFPR03, DGMM15, EH15, EHS15, FMR20, Han13, JPŠ19, OM96, Sta07]. **Prefix-** [JPŠ19]. **Prefix-Free** [EH15, EHS15, Han13, Sta07]. **Prefix-Suffix** [DGMM15]. **Prefixing** [GM90]. **Premaximal** [PS12b]. **Preorders** [GW18]. **Presemifields** [BH11]. **Presence** [Cig04, LPS07]. **Present** [Gur16]. **Preserving** [Gaz06, LO13, Mal15, NTSH06, Ric19, SZQ<sup>+</sup>17, XZL<sup>+</sup>19]. **Prices** [FFMW19]. **Prime** [CFPR03, KYZS17, YW20]. **Primer** [BRM07]. **Primitive** [DR12, FLST12, KMS11]. **Principal** [Hir91]. **Principles** [AMR05, AD12, Obt06]. **Prints** [Ser09]. **Priority** [CS99, Elm06, GZ12, GNC<sup>+</sup>03]. **Privacy** [XZL<sup>+</sup>19]. **Privacy-Preserving** [XZL<sup>+</sup>19]. **Private** [BNBN20]. **Privileged** [FJPS16]. **Probabilistic** [CZOdlH17, CHYT14, CMR07, CMRR08, DTY15, DY19, Fre08, HV02, HIIW01, Mad03, MDAPHPJ<sup>+</sup>11, PBMZ06]. **Probabilities** [Szw95]. **Probably** [MMS17]. **Probing** [Li12b]. **Problem** [AP92b, BJD20, BLR09, BCR11, BCD14, BHK18a, BB04, BL01, BDG<sup>+</sup>11, BLM15, BDI<sup>+</sup>11, CF06, CCF09, CKK02, DDD18, DGN07, DRDN08, DRS14, DD13, FPS02, FZ13, FP04, Fin12, Fuj17, GKS17, GLP07, GD12, HH11, HL04, HJK12, HO99, Hon02, Hon06, Hon07, IMS03, KL03, KLS<sup>+</sup>19, LAHN14, LW05, LW06a, LZ12, Lin07, MXY<sup>+</sup>04, MS20, Mar92, Mar08a, MGCvdlP20, Nag20, NSVA12, NB18, NAK<sup>+</sup>15, Pan91, RC11, SB17, SS07b, Ste93, Tor13, Tor15, Vin05, WD90, YTLC02, ZZZ16, Ueh99]. **Problems** [AK06, AMT20, AE05, AB91, BPR09, BHK05, BKP18, BCC13, CCF08, CHWX09, CCI12, CD95, CR15, CS93, DH05, DJL<sup>+</sup>07, FZ15, GC15, GGR14, GPPJR13, Gol90, Gon01, Hut02, IDY08, Iba11, Iba15, JMSO05, Kar09, KPSC08, Lar98, Löd15, Loh10, LOPR18, Man15, MVM07, RWZ01, RLWW96, TY15, WG17, Yen08, ZYLW12]. **Procedure** [GN04]. **Procedures** [BET03, FMC04, FK05, FKT07, Sal11]. **Process** [AH07, DD12, GCK08, Kri97, SN13]. **Processes** [Cas95, FGH<sup>+</sup>07, HW10, SMS92]. **Processing** [BRSRC11, CW11, HS95, HLW09, KBH99a, SSS09]. **Processor** [CE98, Leu04, RR06]. **Processors** [DT20, DM08, FRV19, HB06, LY94, MCM<sup>+</sup>11, MGCvdlP20, NKW08]. **Product** [DPR<sup>+</sup>08, MS12]. **Production** [Wil91]. **Products** [BK16, CV14, CR15, TSS13]. **Prof** [SSS13]. **Profile** [Car11]. **Program** [RR04, Rud15, Wan04]. **Program-Based** [RR04]. **Programmed** [Fer07].

**Programming**

[Ano01c, Cos90, FZ02, GN04, Hin01, ND02, Pre01, RR06, Rov00, Sub90a, Sub90b].

**Programs** [ACV13, BM90, BAK12, BET03, CIY01, CJS92, HB06, HV02, Jai95, RKRR02, Sao92, Sto92, Tha91, Vik96]. **Progress** [APV06, Pal03]. **Projections** [TZ91].

**Prolog** [HST01, MT95b]. **Prolongable** [CDJ09]. **Promoters** [Sbu06].

**Promoters/Inhibitors** [Sbu06]. **Proof** [AKS95, GN04, GM90, LYX<sup>+</sup>19, Nag20].

**Proofs** [Arv97]. **Proper** [MM97].

**Properties**

[AB91, BMS18, BLL06, Çev20, CRS12, CC98, Dai97, DPR07, DH96, DD08, DD06, DQFL12, DMSS16, DK12, FH05, FY11, GK11, JC03, KMS11, Kun16, LOZ98, MT10, MMR10, NPSY00, Pri06, RS13, Sak01, TW09, Vor18].

**Property**

[Elm06, Gaz06, HIIW01, Ric19, WM13].

**Proportional** [GPS14]. **Proposal** [Špr09].

**Propositional** [Pla96, Sal13]. **Protect**

[YMC<sup>+</sup>17]. **Protein** [HMZ05]. **Proteins** [PPRPS11]. **Protocol** [BV98a, GCK08, HCETPL<sup>+</sup>12, HT09, KMZS19, XZL<sup>+</sup>19].

**Protocols** [ADR11, CIS03, LWS<sup>+</sup>20].

**Provable** [YYW19, ZPXX17]. **Provably** [GH13, RMZW19]. **Proving**

[GHS13, GRRS14, Sak01]. **Proxy**

[DZH16, MLO17]. **Pruning** [WD03].

**Pseudo** [KMS11, ST93].

**Pseudo-Primitive** [KMS11].

**Pseudorandom** [NAK<sup>+</sup>15].

**Pseudovarieties** [Ali16]. **PSPACE**

[JYF91, vdM00, DW03]. **PTAS**

[DFLL02, GJKS18]. **Public**

[GKS17, HLH19, LYX<sup>+</sup>19, WZ15, YMC<sup>+</sup>17].

**Public-Key** [GKS17]. **Publicly** [SZQ<sup>+</sup>17].

**Pumping** [GTCV19, MP07]. **Pure**

[JM03, Mal07]. **Pursuit** [IML04]. **Push**

[BCC<sup>+</sup>96]. **Pushdown** [AK14, AKS14,

ABH17, CVMVMV00, IJT<sup>+</sup>93, KMO10, LNP16, Löd15, Lug11, Mas13, Nak18, OS19, Ott15, PI95, Pig09, RT16, Sao92, Set08].

**Pushout** [ALR04]. **PVsub** [AP92a].

**Q3Ap** [LMM<sup>+</sup>12]. **QoS** [XLC<sup>+</sup>04]. **Qsort** [MIN11]. **Quadratic**

[BBP11, CCI12, KS10, NSVA12, XCX17].

**Qualitative** [CMWZ19]. **Quality**

[MKB<sup>+</sup>11]. **Quantifiers** [BV98b, Lüc18].

**Quantifying** [AS18, EGPS10].

**Quantisation** [CCM11]. **Quantitative**

[DV14]. **Quantum**

[ATK12, Arn17, AD12, BMP03, BCD14,

BMP15, BB03b, FZ15, Fia08, GRB03,

GJMP06, Gro03, GQZ15, IMS03, IN13,

KR03, Kud07, LB04, NR18, Nak18, Nis03,

SY12, YSD16, Yam03, ZQL12]. **Quasi**

[Ber13, MT10]. **Quasi-Eulerian** [Ber13].

**Quasi-One-Cluster** [Ber13].

**Quasi-Relabeling** [MT10]. **Qubit**

[GRB03, JM03]. **Queens** [MGCVDIP20].

**Queries**

[Arn17, Ars15, Cig04, GSZ99, Lag14].

**Query** [CW11, Lag17, Mee12, ST99, VG01].

**Query-Based** [VG01]. **Query-Optimal**

[Lag17]. **Querying** [TV14]. **Questions**

[IR14, Shu14]. **Queue** [Elm06, Iba02].

**Queue-Connected** [Iba02]. **Queueing**

[YLZ14]. **Queues** [CS99, Fer07]. **Quickest**

[GR03]. **Quickheaps** [NPPS11]. **Quine**

[RS95]. **Quine-Bernays** [RS95]. **Quirky**

[Lüc18]. **Quotient** [BL12, OS19].

**Rabbit** [FSWF11]. **Radical** [BW14]. **Radio**

[DGN07]. **Radius** [Coo17, DESW05].

**Ramsey** [PDPPJ11]. **Random**

[BT17, BKS12, FZT14, KPM15, Li12a,

MD00, NPSY00, Rud15, Sub05, ZK19, ZG13].

**Random-Access** [Rud15]. **Randomized**

[BDDN01, BHK<sup>+</sup>18b, DR05, FDFZB12,

Li00b, MD00, RS00, SRR15]. **Randomness**

[KMZS19, Sun00]. **Range**

[DGN07, MS99a, Poo04, RGR11].

**Range-Aggregation** [RGR11]. **Ranges**

[Jir14, WY05]. **Rank**

[GI19, KM19, Sun00, TA17]. **Ranking**

[BPZ07, DPS99, ERW04, MPS99, Nak04].  
**Rate** [GKRS10, Pal03]. **Ratio** [FCS05, HZZT12]. **Rational** [AK06, BGN10, CK18, Fin12, GC18, RC05, RS15, Shu07, TWZ11, ZC13, ACM11].  
**Rationale** [CFMR05]. **Re** [MLO17, RR06].  
**Re-Distribution** [RR06]. **Re-Encryption** [MLO17]. **Reachability** [BKP18, FT09, GJV00b, HBIT08, IBS01, IDY08, Kar09, KPSC08, LN08, Mar09, Set08, SN13].  
**Reaction** [APMP17, BFM06, BLR20, BEMR11, EMR10, EMR11, EMRB12, ER14, Sal13, TA17, Teh18]. **Reactions** [HFLD09].  
**Reactive** [SR00a]. **Read** [AS18]. **Real** [KD99, Leu04, LCY12, Pal03, Rya15, SK01, YS13]. **Real-Life** [Rya15]. **Real-Time** [KD99, Leu04, LCY12, Pal03, YS13].  
**Realistic** [DVG03]. **Realizability** [LBL06]. **Realizer** [MAN05]. **Realizing** [LC18].  
**Reals** [Mee12]. **Realtime** [DY19].  
**Rearrangements** [SSK96]. **Reasonable** [BHK18a]. **Reasoning** [DN07, EN03, LSWW13, MT95a, TW09].  
**Reassignment** [KZ10]. **Rebalancing** [LF96, MO94]. **Rebound** [IIK<sup>+</sup>04].  
**Receiver** [CCD07, TFS19]. **Recipient** [ZYZ<sup>+</sup>19]. **Reciprocity** [SB12].  
**Reciprocity-Based** [SB12]. **Recoding** [GPC09]. **Recognition** [DP90, GV03, JP07, NWK06, Okh03, YS13].  
**Recognizable** [DK98, Fin04, Gia11, RW11].  
**Recognize** [CR15]. **Recognized** [MM05, ZQL12]. **Recognizer** [SRPC11].  
**Recognizing** [BM90, GI19, LWW00].  
**Recombinants** [BRSV13]. **Recombination** [DDM07]. **Recommendation** [GWL02].  
**Reconfigurable** [BBFZM06, BT00, FZEBB05, FZFDCHB05, MDL97, PA98, RM98, WH03].  
**Reconstructing** [FS06]. **Recovering** [IN13]. **Recovery** [WZ15]. **Rectangle** [Uen13, WLC12]. **Rectangles** [Nag06].  
**Recurrence** [Dur13, LS98]. **Recurrent** [MO94, NP09]. **Recursion** [JK14b].  
**Recursive** [APP91, AT12, KM02, Kap05, Kut05, LZ93, LPC11, Sal11, YCTW10].  
**Recursively** [vLW15]. **Red** [CS96, MC02].  
**Red-Black** [CS96, MC02]. **Redex** [FW90].  
**Reduce** [CKW09, Li12b]. **Reduced** [Sut03].  
**Reducibilities** [DR94]. **Reducibility** [HJ97]. **Reducing** [BCFR07]. **Reduction** [BHR09, DG09, FMR20, HH11, Hit20, MS19].  
**Reductions** [AV96, HJ91, Zan91]. **Reducts** [Wan14]. **Redundancy** [VS93]. **Redundant** [WXF16]. **Reed** [Arn17]. **Reference** [IMP12]. **Refinement** [CFH<sup>+</sup>03, HPV99, MH06]. **Regex** [Sch13].  
**Region** [DRDN08, YW06]. **Register** [HFLD09]. **Registers** [HG11, XLZ19].  
**Regression** [MM11]. **Regular** [Ada10, AK06, AK10, AB17a, BS16, BMMR19, BT13, Brz13, BL14, BD19, Cal15, CSV02, CSY03, Cha02, CLOZ04, CDJ09, COT12, CS02, CS00b, CKW09, Co017, CFPR03, DK11, DM11, Elb01, EH15, EHS15, Faz11, FO08, GKRS10, GH13, GH15, HWW06, HKS13, Han13, HK03, HK11, IW07, Jež08, JM11, Jir14, KMS02, KEH16, KLH16, KBH99b, KMM06, Loh10, NEPSY00, PP14, PT90, RS12, Sel08, SR00b, SL17, TV14, Tei17, TW09, YSM<sup>+</sup>00b, YJ05, Fin12].  
**Regular-Expression** [Han13]. **Regularity** [BKW02, Mal15, Pal08, RS13, ST16].  
**Regularity-Preserving** [Mal15].  
**Regulation** [BDL08]. **Regulatory** [AES18].  
**Relabeling** [MT10]. **Relabelings** [Kan15].  
**Related** [AO11, AB17b, BPR09, CHZ06, Iba11, TY15, WLC12]. **Related-Key** [WLC12]. **Relating** [BT00, Mal05].  
**Relation** [HK95, HN10]. **Relational** [Lar98, Lar99, Tha91, VS93, YBI11].  
**Relations** [BK95, DI02, DZ00, Fin12, JF18, KL10, Lin08b, TZ91, WGD18]. **Relative** [CMRR08]. **Relaxed** [JL01, LF96].  
**Relaxing** [De 06]. **Relay** [CIS03]. **Relevant** [CCI12]. **Reliability** [Jai98]. **Reliable** [MGJ19, YBM11]. **Remarks** [BSBZ08, FJPS16, Hon02, Kud07, MMY10,

Tru08, VG01]. **Removal** [HKRS19, Moh02]. **Removals** [GPS14]. **Rendezvous** [CDPR11, EP17]. **Repair** [LZGF16]. **Repeated** [Cig04]. **Repeats** [Riv04]. **Repetition** [VG01]. **Repetitions** [CdL04, FJ12, GS12b, IYZ04]. **Replacement** [LLW18]. **Replication** [Qua07]. **Report** [APV06]. **Reporting** [SJ04]. **Representable** [TST01a]. **Representation** [BB99, BJ05, BJ06, BJ07b, O’N15, ROK08, WXF16, XHLF02, Zho02]. **Representations** [BB03a, BK16, HP09b, LP19, PPJY08, ZZ18]. **Representative** [TBGP20]. **Representing** [HKKŠ13, Smy12]. **Requests** [CVPV08]. **Required** [Sun00]. **Requires** [Fri10]. **Research** [FH11, GPPJR13, XCC16, Zom03]. **Resemble** [KMS06]. **Reservations** [KL05]. **Reset** [Gus13, GP15, Mas19]. **Residual** [AO11, Dan11, YB19]. **Resiliency** [CL07a]. **Resilient** [SNWW06, TCT14, YBM11, ZYZ<sup>+</sup>19]. **Resolution** [Pla96]. **Resource** [BRSRC11, BDG<sup>+</sup>11, CTZ01, FM01, SVSN01, WG17, YH11]. **Resources** [RS17, SB01]. **Respect** [RR18]. **Restarting** [JO07, KR08, KMO10, KO13, KO18b, MO07, MO09, MPJ07, PM13]. **Restricted** [BMS18, BFL02, BE19, DP90, DS05, GWL<sup>+</sup>17, MNS18, Nis03]. **Restriction** [FFH15, HCG96, HLW09]. **Restriction-Fragment** [HCG96]. **Restrictive** [PB20]. **Result** [CP06, ES01, LD01]. **Results** [AA13, BGRY16, BKM11, CD06, CKZ17, DGMM15, FOP05, HK09b, LS98, RS04, SYS19, Sbu06, YWY94]. **Retrieval** [CCF09, FMN06]. **Returning** [BKM15, BD19]. **Reusability** [KR03]. **Reusing** [FZ03]. **Reveal** [LKM02]. **Reversal** [CGKY12, Jir14, Rao08]. **Reversals** [QLWL06]. **Reversibility** [Iba11]. **Reversible** [HJK18, KPS18, LP19]. **Revisited** [AMR09, DR94, FJ12, KS11, KX12, Pre90, TA17]. **Revisiting** [DPR<sup>+</sup>08]. **Revocable** [SZFX20]. **Revocation** [HYT15]. **Rewrite** [AMR09]. **Rewriting** [Bar90, BCVVH07, BPT16, BKKR01, FW90, GHWZ05, KMS06, Luc09, Mad03, ND02]. **Rewriting-Based** [ND02]. **RFID** [HCETPL<sup>+</sup>12]. **Rhythms** [CIRS08]. **Rich** [PS12a]. **Rigid** [GJV00b]. **Rigidity** [BDD<sup>+</sup>18]. **Ring** [CL98, DSS08, GS12a, LW06b, Mar97, Sub90a, Sub90b, ZGC218]. **Ring-Theoretic** [Sub90a, Sub90b]. **Rings** [BW14, CX98, EN03, FHL07, GLP07, YWY94]. **RLE** [HI18]. **RLE-Compressed** [HI18]. **RNG** [CIS03]. **Road** [CKK02]. **Robots** [BFMBS11, BT17, DDPS19]. **Robust** [DPR07, DW03, ECY02, HJ91, HJV93]. **Robustness** [AB17a, MCS08]. **Root** [CHZ06]. **Root-To-Frontier** [CHZ06]. **Rooted** [Yah12]. **Rosser** [KM07b]. **Rostering** [MZ01]. **Rotation** [SFL17]. **Rotations** [MO94]. **Rotator** [KHLCL12]. **Rough** [TSS13]. **Round** [CLT14, KLP20, LJ17, TYM<sup>+</sup>17]. **Round-Optimal** [KLP20]. **Route** [GR03]. **Routed** [PV98]. **Router** [LOD07a, LOD07b, MMS05]. **Router-Based** [MMS05]. **Routing** [BDC90, BDDN01, CHA<sup>+</sup>92, CHYT14, Cig04, FPS02, GD98, GFK98, GP17, JW08, KAPF05, LPC11, OS01, PA98, RM98, RS01, RVT06, Sib97]. **Row** [MS20, WAG<sup>+</sup>06]. **RP** [BJY90]. **RSA** [BNBN20]. **Rule** [Fer07, dMLBPP20, PB20, SKL03]. **Rulers** [BMP03]. **Rules** [AFO06, BCHK09, TBGP20, Zet11]. **Rumors** [XCC16]. **Run** [LD01, MHT09]. **Run-Time** [LD01, MHT09]. **Runs** [FY08, FJ12, KMIS09]. **Runtime** [Rud15]. **Rupture** [ABT16, Asl16, AO10, AA13, BTO17, KA18, LDLW17]. **Safe** [Cap96]. **Safety** [CHYT14, IBS01].

**Salesman** [BL01]. **Salesmen** [Klo96b]. **Sampling** [CCP18, MM17]. **Sanitizers** [YM19]. **SAT** [HW10, YW06, ZG13, ZK19]. **SAT-Based** [HW10, YW06]. **Satisfiability** [DDD18, MTVM09, MTVM15, ZSW14]. **Sato** [RKRR02]. **SBN** [KR97]. **SC-Expressions** [YZ07]. **SC320** [MDL97]. **Scalable** [BBFZM06, Hei97, WHLH17, WH03]. **Scale** [CDLW05, DCS13, DEMT05, MDL97]. **Scales** [CM12]. **Scan** [JP08, PRS98]. **Scanning** [DES09]. **Scattered** [Bed18, DSS08, ÉO13, ÉI14, RC05]. **Scattering** [BFMS11, BT17, KA18, WQY16]. **Scenario** [YTLC02]. **Scenario-Based** [YTLC02]. **Schedulability** [WR16]. **Schedule** [CD95, RWZ01]. **Scheduler** [TSFZRP17]. **Scheduling** [BV98a, BS01, BLMR05, BNR99, BDG<sup>+</sup>11, BE19, Cas05, CTZ01, CYZ14, CR14, DFL02, DEZ01, DLC<sup>+</sup>14, DEMT05, FL97, FBHH01, FCS05, GJKS18, Gro03, HB06, HL04, HW17, HLW09, Jan93, JSO10, KSMMT18, Klo96b, KD99, LAHN14, LTZ12, LTW02, LLZ07, Li01, MXY<sup>+</sup>04, Mas04, NN93, Pal03, PY04, PZX07, PFG<sup>+</sup>01, RC11, SSS09, SS07b, Sun11, SS12b, WY05, WR16, YH11, Zaj09, Zom01b, Zom01c]. **Schema** [KS11]. **Scheme** [DCS13, DZH16, FPP03, Fuj16, HHP17, HLH19, LD04, LHT09, LH11, LYHW19, MD00, TWZ11, ZC13, ZGCZ18]. **Schemes** [FL12, GP17, JSO10, MMS17, PNN<sup>+</sup>10, SNWW06, Sun00, WGF16]. **Schnyder** [MAN05]. **Schützenberger** [DV14]. **Science** [HO00]. **Scientific** [RR04]. **Scope** [LNP16]. **Scope-Bounded** [LNP16]. **Score** [HN06]. **Screening** [IN08, IN05]. **Search** [ACDL18, BRM07, Brz13, CS00a, Fle96, HM04, HLH19, IN05, IN08, JS03, KK90, KNR18, LTZ12, PRN13, WM05, ZZZ16]. **Searching** [Ami05, CFG12, DE08, KPS93, MP93, ST93]. **Seat** [KL05]. **Seating** [KL05]. **Second** [LHG11, Set08, Szw95]. **Second-Order** [Szw95]. **Secrecy** [BKST18]. **Secret** [LD04, MNS11, Sun00, TWZ11, WGF16, ZC13]. **Secure** [HLH19, KLP20, LYHW19, MLO17, MG14, MMS17, MGJ19, RMZW19, SNWW06, SNJ11, SZFX20, TWZ11, ZLW<sup>+</sup>17]. **Securing** [CST<sup>+</sup>17]. **Security** [DLW02, LW06b, LWS<sup>+</sup>20, NAK<sup>+</sup>15, SNJ11, WHLH17, YYW19]. **Seeking** [MD00]. **Selected** [Pal01a]. **Selection** [ATK12, CD20, NB18, SRR15, WRNK03]. **Selective** [HHN<sup>+</sup>95]. **Self** [CDPT16, DDHL11, DTY15, DWS15, FDFZB12, FZAM08, GHJS05, GS12a, HKRS19, HHW99, HSS19, JK14a, JK14b, KK10, Kar99, Láz13, NGHK15, ST11, San13, SW17, SZQS18, TSFZRP17, WD03, XS06]. **Self-Assembly** [JK14a, JK14b, SW17]. **Self-Attraction** [HKRS19]. **Self-Dual** [HSS19, SZQS18]. **Self-Organizing** [Láz13]. **Self-Pruning** [WD03]. **Self-Similar** [JK14b]. **Self-Specifying** [HHW99]. **Self-Stabilizing** [CDPT16, DWS15, FDFZB12, FZAM08, GHJS05, GS12a, KK10, Kar99, NGHK15, ST11, TSFZRP17, XS06, DDHL11]. **Selfish** [FFMW19, MV11]. **Semantics** [AG01, BMSMT11, BKKR01, CZ11, Cos90, Kri97, Luc09, MT95b]. **Semi** [GTCV19, KK05, SF07]. **Semi-Automatic** [SF07]. **Semi-Conditional** [GTCV19]. **Semi-Lossless** [KK05]. **Semiautomata** [BJ05, BJ06, BJ07b]. **Semicomputable** [TZ91]. **Semifeasible** [FH05]. **Semiformal** [Špr09]. **Semigroups** [AK10, BS15, TSS13]. **Semilinear** [IS12]. **Semilinearity** [Yen09]. **Semirings** [ELS15]. **Semisimple** [AR16]. **Sender** [WZ15]. **Sense** [BF07, FS98]. **Sensing** [AKK19, WF17]. **Sensitive** [Ott13]. **Sensor** [AHL<sup>+</sup>13, BNS03, DCS13, MKB<sup>+</sup>11, SP04, WY05]. **Sentences** [Szw95]. **Separability** [JM03, Teh16b].

**Separable** [CM92, Mat04]. **Separating** [AAV00, DZ00, MB17, vLW15]. **Separation** [Fia08]. **Separations** [BJY90]. **Separators** [BBC00]. **Sequence** [CZTH13, CW11, EGPS10, GD12, HMZ05, KYZS17, Lin07, PYTH10, WPZ16, XCX16]. **Sequences** [Ars15, BLP18, BBM<sup>+</sup>12, CCF08, CKZ17, CRS12, Coo17, DN07, Dur13, GK11, Hon12, IMP12, KX12, KK19, LJH<sup>+</sup>17, NP09, Sal07, SS12a, Tho06, WWT20, WO03, XZS16, YW20]. **Sequencing** [Sal18]. **Sequential** [CCFS07, DI05, Fre05, JF18, Kan15, LRT92, Toš06]. **Serializable** [Ogi94]. **Series** [CR14, Mal05]. **Servers** [OS01, URS07]. **Service** [BS01, BCDP08, Li12b]. **Set** [Aku06, AWF03, BRSV13, CGL12, Elm06, FZ15, GRV10, HLW09, KK10, KLS05, KMW16, MM97, RAB15, TBGP20, Tor15, Ueh99, WAF03, XCMT20]. **Sets** [AK06, AGM19, BMW91, BMP03, BLL06, CZTH13, CYS<sup>+</sup>12, CL07b, DLT06, DGL93, DWS15, DS05, DR94, ÉK07, FH05, HT95, HHN<sup>+</sup>95, Hon06, Hon12, KHLC12, LO11, Mel93, MB17, NGHK15, Prů17, RW11, RC05, Ros90, RS15, SMS90, Sto92, TCLS10, TV94, WPZ16, XCX16]. **Setting** [BV08, HST01, HHP17, TYM<sup>+</sup>17]. **Several** [HLC<sup>+</sup>19, LD04, SH17, XCX17]. **Shamir's** [LD04]. **Shape** [Gaz06]. **Shapes** [MC02]. **Shared** [BLR09, Mor10, RR18]. **Shared-Memory** [Mor10]. **Sharing** [BDG<sup>+</sup>11, LD04, Li12b, Sun00, TWZ11, WGF16, WHLH17, ZC13]. **Sharpened** [FP04]. **Sheng** [CISS12, SSS13]. **Shift** [HG11, XLZ19]. **Shifts** [Asv07, CS18, JP04]. **Shop** [JMSO05, SS07b]. **Shops** [LLZ07]. **Short** [FLFR19, IMP12]. **Shorter** [GH13]. **Shortest** [AHL<sup>+</sup>13, CFMS15, DPS99, Hut02, JW08, KM18, LW05, LW06a, MPS99, ST99, XFJ03]. **Shortest-Path** [JW08]. **Should** [Ros03]. **Shrinking** [JO07]. **Shuffle** [BO97, BMS18, CSV02, CL98, DKSS11, DS05]. **Shuffle-Ring** [CL98]. **Shuffling** [EH12]. **Side** [SRN<sup>+</sup>20]. **Sided** [ACDL18, ST93, XBE02]. **Sidel'nikov** [YW20, KYZS17]. **Signal** [BCC<sup>+</sup>11, LWJ<sup>+</sup>10]. **Signature** [DZH16, HHP17, LW06b, LYHW19]. **Signatures** [HYT15, Ver09]. **Signcryption** [FZT14, RMZW19, ZGCZ18]. **Signed** [HP09b, QLWL06]. **Similar** [FA06, JK14b]. **Similarity** [Ars15, BOV08, DSS15, HN06]. **Simple** [AFB96, BCFR07, CDLW05, CHKL07, Fle96, GNP<sup>+</sup>06, HH12, HYT15, Huy91, IST05, Jun14, KM18, MS16a, MS16b, Oka99, WAF03]. **Simple-Algorithms** [AFB96]. **Simple-Yet-Efficient** [HYT15]. **Simplification** [Löd15]. **Simplified** [XCMT20]. **Simulate** [Dub95]. **Simulating** [CPJ06, FZCFB08, JWB03]. **Simulation** [BCDP08, FGS<sup>+</sup>90, FPP03, FZFDCHB05, FNI16, GB03, KL10, LWJ<sup>+</sup>10, MDAPHPJ<sup>+</sup>11, Mat04, Qua07, SVSN01, YB06]. **Simulations** [ÉM11, KR08, KMW14a, Pet11]. **Simultaneous** [Sha04]. **Since** [McN90]. **Sinecure** [FK06]. **Single** [ALR04, BNS03, GH07, KS10, SSS09]. **Single-Channel** [BNS03]. **Single-Pushout** [ALR04]. **Sink** [EG02]. **SINR** [LAHN14]. **Siphon** [JC03]. **Siphon-Based** [JC03]. **Site** [AES18]. **Six** [EAB<sup>+</sup>16]. **Size** [BBP11, BHK18a, Bir11, BMMR12, CSR12, CKW09, De 06, GS12a, KO13, SEE99, Sun11, Uen13, YM19, vLW15]. **Size-Computation** [GS12a]. **Sizes** [ZB02]. **Slave** [GS12a]. **SLDNF** [Pla96]. **SLDNF-Resolution** [Pla96]. **SLMAP** [HCETPL<sup>+</sup>12]. **Small** [AKM<sup>+</sup>11, ARV12, AE04, CD20, CGL12, CD09, DL12, DGK08, FRV19, HIR<sup>+</sup>92, KM17, KS10, Leu16, Mer08, PR00, UU07, YSD16, ZB00]. **Smallest** [NRT00, SRN<sup>+</sup>20]. **SMP** [SK03]. **SNQ** [PB20]. **Soccer** [CKL15]. **Social** [WZCH19]. **Sofic** [Sut03]. **Soft** [Nag06]. **Software**

[BJ07b, FM01, KR03, LX94, Qua07, ST01]. **Solid** [HS11, ST93]. **Soliton** [BJ07a, JK07]. **Solution** [Anc02, MGCVDLP20, NSVA12, Pan91]. **Solutions** [BIIN04, CK07, Ruo96, ZZT91, ZK19]. **Solver** [ELS15]. **Solving** [Com90, Fri10, FL12, GGR14, Gon01, HSS07, Lin07, LMM<sup>+</sup>12, MNS18, MZ01]. **Some** [AA19, AA13, BM16, BCR11, BE95, Bod91, CCF08, Çev20, CKZ17, ÇA18, For10, FH11, GC15, Gol90, GR00, IR14, IMS03, KPS93, KNR18, Kud07, Kun16, LL16, MMY10, Mee12, Oka00, Pri06, Shu14, TL99, TY15, YWY94, ZQL12, ZZC15, vdHM92]. **Sort** [Lar98, ZH19]. **Sorted** [MRT95, Ole92, WO03]. **Sorting** [BLLS03, BMR<sup>+</sup>14, BNS03, DR05, FS05, MRRV06, MIN11, PA98, QLWL06, RM98, WRNK03]. **Soundness** [Kam98]. **Source** [GR03]. **Source-Based** [GR03]. **Space** [AOSY10, BGRY16, CF06, CZ11, Fre02, HIR<sup>+</sup>92, JZ16, KM18, Kör03, MMP10, PLMZ11, SSK96, Sta05, ÜS02, WNF19, WNF20, YS13, ZZ18]. **Space-Efficient** [ZZ18]. **Space-Time** [ÜS02]. **Spaces** [Câm14, CLT09, CMWZ19, HIIW01]. **Spanners** [AWF03, DH96, GS09, WLF03]. **Spanning** [BBB<sup>+</sup>18, BB04, Dar13, ERW04, ET14, Fuj17, HLHH06, LLY13, LX17, LZ12, MTNN99, MAN05, Tor13, YCTW10]. **Sparse** [DR94, ET14, VP99]. **Sparseness** [DH96]. **Special** [Ano01c, BRST07, CD02, CVM20, Hin01, HO00, Hsu98, LC02, Pal01b, Pre01, RS00, Smy12, TY02, Yu02, YYW19, Zom01a]. **Species** [MCS08]. **Specific** [BIIN04, LKM02, SKL03]. **Specification** [BJ07b, SKW08]. **Specifications** [BMW91, HK02, LSWW13, SR00a]. **Specified** [Teh18]. **Specifying** [HHW99, HJW11]. **Spectra** [CH15, SH17]. **Spectral** [Coo17]. **Spectrum** [RK09]. **Speed** [KKP97, RS17, WH03]. **Speed-Up** [WH03]. **Speedup** [BR08]. **Spi** [BDSV06]. **Spike** [PPJR06]. **Spikes** [FIO08, KMG11, PB20]. **Spiking** [FIO08, IW07, KMG11, PPJR06, PPJR07, PPJS07, SRPC11]. **Spin** [ILT11]. **SpliceTAPyR** [TFF18]. **Splicing** [ARV12, LMW08]. **Split** [DES09, GLV14]. **Split-Minimization** [GLV14]. **Splits** [CB09]. **Splitting** [PRS98]. **Spreading** [XCC16]. **Squad** [GLP07]. **Square** [GS18, JK19]. **Square-Free** [GS18]. **Squarefree** [JP07]. **Squares** [GLP07, MMR10, ORS08, PR12, Sha04]. **ST** [MNS11]. **ST-Numbering** [MNS11]. **Stability** [AA19, APMP17, EMRB12, KD99]. **Stabilization** [DTY15, San13]. **Stabilizing** [CDPT16, DWS15, FDFZB12, FZAM08, GHJS05, GS12a, HKV17, KK10, Kar99, NGHK15, ST11, TSFZRP17, XS06, DDHL11]. **Stable** [Hol11]. **Stack** [BBK17]. **Stage** [ZZZ16]. **Standard** [AG01, BPR09, LYX<sup>+</sup>19, MIN11, PR12, ZC13]. **Star** [BMMR19, BL12, CC98, CHYT14, CGKY12, DH18, GCH20, HLHH06, HY97, Jir14, JPŠ19, MR91, OY11, YJ05, ZH19, WC13, YCL11]. **Star-Free** [BL12, YJ05]. **Start** [FO08]. **State** [AM09, ARS11, AMR11, BGN10, BLMR05, BHK19, BMMR11, CSR12, CZOdH17, CK08a, CLMP16, CCP05, CGKN08, CGKY11, CGKY12, Das19, DS02, EH15, EHS15, GY12, GPS14, HS08, HKNS16, HK02, IBS01, JJS05, Jir14, KPS18, KEH16, KLH16, KLS05, Mac96, NRS18, NRS19, OS19, PS02, PR11, SS07a, SY07, SMS92, SN13, WGD18, Yen08]. **State-Based** [HK02]. **State-Size** [CSR12]. **Stateless** [KMO10, KMW14b, Mas13, YDI08]. **States** [BLR09, BMP15, CP03, HKKŠ13, JM03, LB04, MVMM02, NWK06, ZQL12]. **Static** [BET03, Câm14, Cas95, TZ11]. **Station** [DRDN08]. **Stationary** [PT14]. **Stations** [FZ03]. **Statistical** [GK11, Mal18, MG14].

**Stay** [BC12]. **Steady** [BLMR05].  
**Steady-State** [BLMR05]. **Stealing** [Ros00].  
**Steiner** [RR18, SSK96, SB17, Tor15].  
**Stencil** [Leo03]. **Step**  
 [LOZ98, Muk92, ZYLW12]. **Steps**  
 [FT11, JWB03]. **Stepwise** [KN93, MM11].  
**Stevens** [Fri10].  
**Stevens-Stirling-Algorithm** [Fri10].  
**Stigmatic** [DDPS19]. **Stirling** [Fri10].  
**Stochastic** [Li12b, SB01, Tor13].  
**Stoichiometric** [MM11]. **Storage**  
 [OM96, WHLH17]. **Store** [CD95]. **Stored**  
 [Rud15]. **Stored-Program** [Rud15].  
**Straight** [Pat06]. **Straight-Line** [Pat06].  
**Strategies** [BRSRC11, BKKR01, Fia08,  
 GZ12, Rog09, TZ11]. **Strategy**  
 [BC12, FL12]. **Stream** [BRSRC11].  
**Streaming** [AF20, BLM15]. **Streams**  
 [Lin07]. **Strength** [MS18]. **Strict** [RS13].  
**Strictly** [Dai97, MAG09, RS12, XCMT20].  
**String**  
 [BH02, CZOdH17, CF06, CCI12, DJR18,  
 DS96, FY08, GHWZ05, KMG11, KMIS09,  
 LRR08, LCL06, NWK06, NKW08, YBI11].  
**Strings** [BCFL12, CFIJ10, DD08, FS05,  
 Fre05, FRS06, IN13, JP07, Lag14, Smy12,  
 SW09, TCLS10, ZBS05, Zha17]. **Strong**  
 [BMMR19, BJJ90, DP14, GM90, Iba11,  
 NGH15, PT18, PT19, Teh16a]. **Stronger**  
 [NPPS11]. **Strongly** [HHP17]. **Structural**  
 [BCB12, JK14b]. **Structure**  
 [AK10, BSG03, CCF08, CISH07, HK95,  
 IIT91, JMR91, LKM02, MGGP08, MO10].  
**Structures** [ACV13, Cha02, ER14, JK14b,  
 LOD07a, LOD07b, Lin08a, RGR11, SKL03,  
 Sun00, SFL17, WRNK03]. **Study**  
 [CSY03, FK06, VJDT05]. **Sturmian**  
 [BPR09, DD06, Mig90, PR12, Tho06]. **Style**  
 [RKRR02]. **Subalgorithm** [Nis07].  
**Subarrays** [BT07]. **Subclasses**  
 [BHK05, Gia11, TSZ16]. **Subcubic** [SG04].  
**Subdivision** [XHLF02].  
**Subdivision-Based** [XHLF02]. **Subgraph**  
 [AMT20, AB91, GMU15, XZL<sup>+</sup>19].  
**Subgraphs** [ET14]. **Subgroup**  
 [FZ13, IMS03]. **Sublinear** [FMN06].  
**Sublinearly** [MMP10]. **Sublogarithmic**  
 [HIIW01]. **Submatrices** [WAG<sup>+</sup>06].  
**Submodular** [SSS09]. **Suboptimal** [GD98].  
**Suboptimal-Optimal** [GD98]. **Subregular**  
 [HJK12]. **Subregularly** [DST10].  
**Subsequence** [AE05, DD13].  
**Subsequences** [YW20]. **Subsequential**  
 [AM03]. **Subset** [CIS03, Mar09, Vor16].  
**Subshifts** [MM17]. **Subspace** [WNF19].  
**Subspaces** [WNF20]. **Substitution**  
 [KN93, Kam98, Mal07, MCM<sup>+</sup>11].  
**Substitutions** [Dom12, KL03, Tho06].  
**Substitutive** [BDD<sup>+</sup>18]. **Substrings**  
 [DS96, IB12]. **Subtree**  
 [BVM00, Gre96, HLY<sup>+</sup>04, KEH16].  
**Subtree-Free** [KEH16]. **Subversion**  
 [LWS<sup>+</sup>20]. **Subword**  
 [BPR09, CK08a, Čer08, Faz08, FM13,  
 JPŠ19, MS04, Sal07, SY10, TSZ16].  
**Subword-Free** [JPŠ19, TSZ16]. **Subwords**  
 [AČ11]. **Successful** [Rog09]. **Succinct**  
 [BMP03, HYN08, KRK16, ROK08].  
**Sufficient**  
 [KL00, Oka00, WFG15, ZWW<sup>+</sup>14]. **Suffix**  
 [DGMM15, FMR20, FS06, GPC09, HBIT08,  
 Hol11, JPŠ19, LJA09, MM05, NRS19, PL06].  
**Suffix-** [JPŠ19]. **Suffixes** [BMR<sup>+</sup>14, FS05].  
**Suggestions** [FH11]. **Suites** [BMS12]. **Sum**  
 [KMIS09]. **Summary** [GH15]. **Sums**  
 [Sal11]. **Super** [CV14, LLY13, LX17, ZK19].  
**Supercompilation** [LN08]. **Supernode**  
 [JS03]. **Superstring** [LW05, LW06a].  
**Supertrees** [NRT00]. **Supply** [IZN05].  
**Support** [LRR08]. **Surface** [BPT06].  
**Surfaces** [AAH02, Fre02]. **Surveillance**  
 [MKB<sup>+</sup>11]. **Survey** [DGK08, Man15,  
 MOM91, PPJS07, PPRPS11, Riv04].  
**Survives** [JYF91]. **SVMs** [ACM11]. **Swaps**  
 [CCFG12]. **Swarm** [dMLBPP20]. **Sweep**  
 [GM19]. **Switched** [RVT06]. **Switches**  
 [GFK98]. **Switching** [GP09, KG11].  
**Symbol** [AFO06, NCC<sup>+</sup>07]. **Symbolic**

[BB03a, Bee95, BCPR07, Com90, MC13, MB06, Set08]. **Symbols** [DV11]. **Symmetric** [GJV00b, O'N15, SFL17, TWZ11, Van05, KR97]. **Symmetries** [BDSV06]. **Symmetry** [Čer08, MRS97]. **Symplectic** [WNF20]. **Symport** [AFO06, ARV07]. **Symport/Antiport** [AFO06, ARV07]. **Synchronization** [FMV13, GLP07, Vor16]. **Synchronize** [BGMV08, IT13]. **Synchronized** [AK14, CKK02, HIR<sup>+</sup>92, Slo95]. **Synchronizing** [AR16, BBP11, Ber13, TY15, dBDZ19]. **Synchrony** [SR00a]. **Syntactic** [BL14, KM08, Sak01]. **Synthesis** [BBL<sup>+</sup>12, SF07]. **Synthesizing** [HK02]. **System** [AMR09, BGMV08, CLT14, EZ01, FK06, GWL02, GM90, HK95, LYX<sup>+</sup>19, NSVA12, SK01, TA17]. **Systematic** [JP08]. **Systems** [ADHR09, AFO06, ARV07, AKM<sup>+</sup>11, ARV12, ABL<sup>+</sup>11, AF20, AKS95, AKS14, APMP17, AH07, Bar90, BCVVH07, BLR09, BF97, BCC<sup>+</sup>11, BFM06, BV20, BLR20, BEMR11, CE98, CD06, CCFS07, CFH<sup>+</sup>03, CZ11, CVMVMV00, CVPV08, CVDV10, CVOV11, CK07, DPR07, DI05, Das04, DV11, DG09, DEZ01, DZ00, DG90, DPS97, EMR10, EMR11, EMRB12, ER14, FFH15, FOP05, Fre05, FO07, FO08, FIO08, FH11, GH07, GHWZ05, GM90, GCK08, HKRS19, HT12, HK02, IBS01, IYD05, IW07, Iba11, IST05, ILT11, JP06, JP04, Kri92, KMG11, KMS06, KMK11, KRK16, LK11, LCVLV09, Láz13, LTZ12, LZGN06, Leu04, Li01, LCY12, Li12b, LMW08, dMLBPP20, Luc09, Lug11, Mad03, MS07, MM11, MVMM02, MDAPHPJ<sup>+</sup>11, MT95a, Mas09, MO07, MO09, MDL97, Mor10, Muk92, MC13, MB06]. **Systems** [OY11, Ott13, Ott15, PDPPJ11, Päu00, PPJR06, PPJR07, PPJS07, PPJY08, PPRPS11, PB20, Pen93, PBMZ06, PT90, PLMZ11, PFG<sup>+</sup>01, PSS12, Qua07, RCTC<sup>+</sup>09, Sal13, SVSN01, Sbu06, Set08, SRPC11, Sta05, Sun05, Sut03, TA17, Teh18, Toš06, Tru08, WC04, Wil91, YDI08, Yen08, ZC05]. **Systolic** [FGS<sup>+</sup>90, MP91].

**Table** [BESW07, LWW00, NKW08]. **Table-Driven** [BESW07, NKW08]. **Tables** [HI18, LOD07a, LOD07b]. **Tags** [HMZ05]. **Tally** [DR94]. **Tamaki** [RKRR02]. **Tandem** [Riv04]. **Tape** [AMR11, CGKN08, Nak18, NCC<sup>+</sup>07]. **Tapes** [KSY14]. **Tardiness** [KS10]. **Target** [DEKZ11]. **Target-Controlled** [DEKZ11]. **Task** [BNR99, DEZ01, EZ01, FL97, FBHH01, RR06, Sun11, YH11]. **Tasks** [HL04, LTW02, MZ01, ZC05]. **Taxonomies** [KSJ08, ROK08]. **Taxonomy** [CFRD08, Gló10]. **Technique** [EL13]. **Techniques** [FZ02, HPV99, RK09, SEE99]. **Telecommunications** [AC05]. **Temperature** [JK14a]. **Template** [DDM07, WH03]. **Template-Guided** [DDM07]. **Templates** [ER06]. **Temporal** [GN04, LRT92, MG20, PQ06, Pen93, SMS92]. **Tenacity** [LWYL14]. **Tents** [ÜS02]. **Term** [Bar90, FW90, TST01a]. **Terminating** [Mas09]. **Termination** [CGR13, DPR07, DG09, GHWZ05, KM02]. **Terms** [Hir91, JC03, OY11, YTN01]. **Ternary** [Jir11, XCX17]. **Tessellation** [Prů17]. **Test** [AKM<sup>+</sup>11, BMS12, CDJ09, FK13, WZCH19]. **Testability** [RS13]. **Testable** [KP10a, RS12]. **Testing** [AMR11, BDSV06, CLT09, CL10, CDFK19, HL06, MSR06, Mer08, WCD<sup>+</sup>14, Yah12]. **Tests** [KY90]. **Tetration** [Hit20]. **Text** [CK08b, KK05, ZHZ11]. **Texts** [CFG12, CIRS08, IB12]. **th** [YTN01]. **Their** [CLLL08, CK18, HJ14, KM08, KMS11, KP10b, KY96, LO11, MS16a, MS16b, QD03, SY07]. **Theorem** [BC06, BSOR10, BGS11, DV14, GN11, GHS13, GRRS14, MRSS19, Ruo96, SMS90, VG01, KPS13]. **Theorem-Proving** [GHS13, GRRS14].

**Theorems** [Fin19, Suc90]. **Theoretic** [Çev20, DGMM15, FH05, FZ15, GC15, Pan91, Sub90a, Sub90b]. **Theoretical** [Ami05, HYN08]. **Theoretically** [TWZ11]. **Theories** [CGR13, Mar92]. **Theory** [AR16, AD12, BK95, BRST07, Bur12b, Kam95, Láz13, McN90, SMS92, Smi95, Suc90, Tor15, Tsu01, TST01b, Wan04, YLZ14, Zom01c]. **Thesis** [AD12]. **Thoughts** [Mee12]. **Three** [Cha02, CLT14, CK07, ET14, Fin12, KKH90, NS18, Tse16]. **Three-Edge-Connected** [ET14]. **Three-Round** [CLT14]. **Three-Variable** [NS18]. **Three-Vertex-Connected** [ET14]. **Threshold** [CCD07, SUZ13]. **Thresholds** [GP15]. **Throttle** [FK06]. **Thue** [DSS15, Ram05]. **Tight** [AF20, AHL<sup>+</sup>13, BE19, HJP<sup>+</sup>13, PZX07, YS13]. **Tighter** [FKV06]. **Tightness** [CD09]. **Tile** [JK14a, JK14b, SW17]. **Tiled** [Leo03]. **Tiling** [Gia11, Mar08a, PM13]. **Tilings** [Mar08b]. **Time** [AAV00, ANDZM09, BCFR07, Cai94, CD06, CM12, CCI12, CZ11, CFPR03, DPR07, DFLL02, EH12, FZAM08, FZCFB08, Fle96, FMN06, Fri10, GKRS10, GO09, GV03, Gol14, Gra90, HK19, HG11, IR14, IZN99, JWB03, Joh00, KM18, Kör03, KD99, Kri97, Lag17, LD01, Leo03, Leu04, LLQ06, LCY12, LWW00, MM97, Mas04, MHT09, MTNN99, MV11, MGCvdlP20, Nak04, NTSH06, Pal03, Pet11, PY04, RLWW96, SK01, ST99, Sun11, ÜS02, WG17, Wan04, YS13]. **Time-Bounded** [Pet11]. **Time-Critical** [Sun11]. **Time-Free** [CD06]. **Time-Interval** [NTSH06]. **Time-Shuffling** [EH12]. **Time-Space** [KM18]. **Timed** [ACFE09, Kri92, NTSH06]. **Times** [Li12b, SSS09]. **Tissue** [AFO06, ARV07, CVPV08, FOP05, NSVA12]. **Tissue-Like** [CVPV08]. **TLC** [Hen02]. **Token** [DG98, GS12a, PT14]. **Tokens** [DSS08, SK01]. **Tolerance** [FWZ15, HY97, KR97, LYH<sup>+</sup>15, LZGF16]. **Tolerant** [CHYT14, FZEBB05, LPC11, XS11, XZY19, XZZY19]. **Tool** [HPV99]. **Top** [LW93]. **Top-Down** [LW93]. **Topic** [LKM02]. **Topic-Specific** [LKM02]. **Topics** [GPPJR13]. **Topological** [CC98, FS98]. **Topologically** [HCG96]. **Topology** [FH11, Hei97, KG11, Oka98]. **Tori** [FHL07, LLY13, Sib97]. **Torus** [BF07, ISAZ08, LYG17, Mar97]. **Toruses** [GLP07]. **Total** [ALR04, DFLL02, FIO08, IZN99, KS10, LLQ06, LWYL14, PY04, Smi95]. **Totally** [FGV99, WNF20]. **Tour** [BEMR11]. **TPR** [IML04]. **Trace** [BR08, Gol90, KM19, Pen93]. **Traceability** [HCETPL<sup>+</sup>12]. **Traces** [LWJ<sup>+</sup>10]. **Track** [YBI11]. **Tractable** [BCR11, HL06, YHK14]. **Trade** [Kap05, KM18, KKP97, Kut05]. **Trade-off** [KM18]. **Trade-Offs** [Kap05, KKP97, Kut05]. **Traffic** [DEKZ11]. **Trains** [PPJR06]. **Trajectories** [DKSS11, DS05, KKS05b]. **Transactional** [SK01]. **Transcription** [AES18]. **Transcriptome** [TFF18]. **Transcriptomics** [AS18]. **Transducers** [AM03, AM09, ARS11, AMR11, AMR15, BBL<sup>+</sup>12, BBK17, CGH05, DJR18, FSM11, Gaz06, Iba15, Mal05, Mal15, Man15, Moh02, Moh13, RT16]. **Transduction** [BCC<sup>+</sup>11]. **Transductions** [BvdB18, Sut14]. **Transfer** [HLY<sup>+</sup>04]. **Transfers** [NN93]. **Transfinite** [DN07]. **Transformation** [ALR04, AT15, BTK13, BTO17, TSS13, TFS19]. **Transformations** [KLS05, MRS97, PT19, RKRR02]. **Transient** [BLY12, YBM11, YB06]. **Transients** [GB03]. **Transition** [Muk92, Tam08]. **Transitions** [CTS18, ZYLW12]. **Transitive** [DI02]. **Transitivity** [JP06]. **Translation** [Mal18]. **Transmission** [JS97]. **Transparent** [GD98, YSD16]. **Transporter** [SS07b]. **Transpositions** [CL07a, XZY19]. **Traveling** [BL01]. **Trawling** [DEKZ11].

**Tree** [AHK07, ABH<sup>+</sup>09, BBB<sup>+</sup>18, BB04, BCHK09, BKW02, CDPT16, CCP18, CS00a, CHZ06, DL12, DST10, ÉM11, FGS<sup>+</sup>90, FTT10, Fle96, FSM11, Fuj17, Gaz06, Géc07, GC18, HH11, HBIT08, JM13, KM90, KM18, KEH16, KLH16, KK90, Li00a, LZ12, LJA09, Lüc18, MO94, Mal05, MT10, Mal15, Mal18, MG20, Man15, MC02, MS18, MOSZ18, MP91, PR00, PAS08, RAB15, Rei07, RVT06, SMS90, SB17, SVF09, Tei17, Tor13, XS06, YHK14, ŽM11, DDHL11]. **Tree-Based** [ŽM11]. **Tree-Height** [Rei07]. **Tree-to-Tree** [Mal18]. **Tree-Width** [Fuj17]. **Trees** [BYP95, CS96, Dar13, DOR06, ERW04, FDFZB12, FA06, GI19, Gre96, GKS<sup>+</sup>19, HL01, IML04, IZN99, IZN05, JL01, JS03, JK07, Lag17, LW93, LF96, MM17, MTNN99, MAN05, OSZ92, OM96, OW92, PI95, PV98, PL06, Pro96, RS01, Sao92, Smy12, XHLF02, YTN01, YZY<sup>+</sup>18, YCTW10, ZB00, ZB02, ZH06]. **Treewidth** [AMT20, Klo96a]. **Trellis** [FGS<sup>+</sup>90]. **Trémaux** [DOR06]. **tri** [NS13]. **Triangle** [FP04, SRN<sup>+</sup>20, XHLF02]. **Triangles** [AAV00, MB17, Sib97]. **Triangulating** [AFB96]. **Triangulation** [DPT02]. **Triangulations** [Fre02]. **Trick** [Ste11]. **Trie** [AČ11, PPR18]. **Tries** [KPS93]. **Trinomial** [ZZC15]. **Trinomials** [WXF16]. **Triple** [JS97, LOZ98, LCXS19]. **Triple-Cycle** [LCXS19]. **Trivalent** [CP99]. **Trivial** [BL14]. **Truck** [MXY<sup>+</sup>04]. **TSP** [Gol14]. **Tube** [AKM<sup>+</sup>11]. **Tunable** [BBM<sup>+</sup>12]. **Turing** [AD12, Cap96, Dub95, HIIW01, HJV93, IIT91, IIK<sup>+</sup>04, Mer08, Slo95]. **Turn** [AK14]. **Tutte** [GO09]. **TVDH** [AKM<sup>+</sup>11]. **Twisted** [HYLF20, ZLL20]. **Two** [AF20, AGM14, Ars15, ACDL18, BHK18a, BSBZ08, BT00, BKW02, CH15, CL15, CdL04, CHZ06, CGKY11, CGKY12, CTS18, DLT06, DJ12, FS05, FL12, GP15, HKV17, HJP<sup>+</sup>13, HL06, HKKŠ13, HG11, IJT<sup>+</sup>93, IS12, JP06, JM03, Kap05, KYZS17, KKH90, KP10b, Klo96b, KL11, KMO10, LY94, Leu04, LLZ07, LCXS19, MS20, Mel93, NR18, OS01, Prů17, RWZ01, RLWW96, SS07b, Ste93, SMAN13, WO03, XZS16, XZL<sup>+</sup>19, YZY<sup>+</sup>18, ZZZ16, ZQL12, ZG13]. **Two-Dimensional** [AGM14, BT00, CdL04, DJ12, JP06, MS20, NR18, Prů17, SMAN13]. **Two-Face** [RLWW96]. **Two-Hop** [AF20]. **Two-Machine** [LLZ07, SS07b]. **Two-Pattern** [FS05]. **Two-Prime** [KYZS17]. **Two-Processor** [Leu04]. **Two-Pushdown** [KMO10]. **Two-Sided** [ACDL18]. **Two-Way** [BHK18a, BKW02, CL15, HKKŠ13, IJT<sup>+</sup>93, IS12, Kap05, KL11, ZQL12]. **Type** [Bar90, CZTH13, Hir91, Kam95, MM17, MN00, PB20, PI95, Smi95, Tsu01, TST01b]. **Type-Free** [Kam95]. **Typeness** [KMM06]. **Types** [APP91, GJKS18, TZ91]. **UGB** [NS98]. **Ultralinear** [MP07]. **Un-Kleene** [HSS07]. **Un-Oriented** [DSS08]. **Unambiguity** [CL15]. **Unambiguous** [CFM13, FRS06, JJŠ18, MS18, Mor10, Rav08]. **Unary** [AK10, BCN12, Das19, DESW05, GP13, Glö07, Jez08, JMR91, KMW14a, PS02, Pig09, Pig15]. **Unbordered** [HN10]. **Unbounded** [Car11, HB06]. **Unbreakable** [OS93]. **Unconditionally** [SNJ11]. **unconventional** [CV13]. **Uncountable** [DY19]. **Undecidabilities** [BKM15]. **Undecidability** [BKM11, Fin12, HHH07]. **Undecidable** [Kog18, Mar92, Mar08a]. **Understanding** [Zet11]. **Undirected** [FZFDCHB05, XLC<sup>+</sup>04, ZWS96]. **Unfold** [RKRR02]. **Unfold/Fold** [RKRR02]. **Unforgeable** [HHP17]. **Unicast** [GWL<sup>+</sup>17]. **Unidirectional** [GS12a]. **Unification** [GJV00b, Pym92]. **Unified** [BNBN20, CLMP16, NS13]. **Uniform** [AS18, Anc02, BFMBS11, BMW91, Dur13, Fuj17, HL01, KSV00, LPP92, MM17, XC15, ZZC15]. **Uniformity** [CdL04]. **Uniformly** [NP09]. **Union** [CGKY11, EHS15, GI19,

GNC<sup>+</sup>03, HS08, JM11]. **Union-Free** [JM11]. **Unique** [DD08, Ruo96]. **Uniqueness** [DESW05]. **Unit** [Fuj16, FCS05, Zaj09]. **Unitary** [HN06]. **Universal** [AKM<sup>+</sup>11, ARV12, BKST18, CL14, DG90, GKSZ19, Lis93, Pol05, Sch02, Ver09]. **Universality** [Bur12b, CP06, JK14a, PB20]. **Universally** [Tra02]. **Universe** [MAG09]. **Unknown** [LP11]. **Unknowns** [CK07]. **Unordered** [FA06, YHK14]. **Unpaired** [LMZC20]. **Unranking** [ERW04]. **Unrelated** [GJKS18, Jan93]. **Unreliable** [KY90]. **Unsolvability** [BHK05]. **Unweighted** [MQ12]. **Update** [Fle96, GPC09, Lag17, LOD07a, LOD07b]. **Update-Efficient** [LOD07a, LOD07b]. **Updating** [LW93, OW92]. **Upload** [AF20]. **Upper** [BBP11, ZSW14, ZG13]. **Ups** [JJS08]. **Upward** [HL06]. **Use** [BCC<sup>+</sup>11, SS12b]. **Used** [LKM02]. **Useful** [BGRY16]. **Usefulness** [BPR09]. **User** [DE08]. **Using** [AES18, AČ11, AS18, AH07, BBFZM06, BNBN20, BS01, Bee95, BC12, CTZ01, CST<sup>+</sup>17, CK08b, DW04, DSS08, DZ00, DE08, EP17, FGH<sup>+</sup>07, FHL07, FK13, FNI16, GD98, HHH07, HV02, HP09b, HFLD09, IML04, ILT11, INY07, IN08, IN10, Jai95, KAPF05, KS10, LX94, LB04, LWJ<sup>+</sup>10, MO94, MGCVDIP20, PB20, PAS08, Pol05, RCTC<sup>+</sup>09, SKL03, SB01, SN13, Wan14, WXF16, WM13, WHLH17, XHLF02, YBI11]. **Usual** [ES01].

**Valid** [HCG96]. **Valuation** [DM11]. **Value** [KMIS09]. **Valued** [CH15, SH17]. **Valuedness** [Iba15]. **Values** [BFL02]. **VANETs** [CST<sup>+</sup>17]. **Var** [YTLC02]. **Variable** [BGM<sup>+</sup>18, CL07b, DDD18, NS18, TY03, TJZ13, ZWCL14]. **Variable-Order** [BGM<sup>+</sup>18]. **Variables** [EAB<sup>+</sup>16, Kam98, ZG13]. **Variant** [Päu00, VG01]. **Variants** [CVDV10, FL09, FRV19, HLC<sup>+</sup>19, JL01, MS16a, MS16b, NB18]. **Variations** [DRDN08, YHK14]. **Varieties** [KP10b]. **Various** [BLM15, IYD05]. **Varying** [HG11]. **Vector** [BH02, CHYT14, SYS19]. **Vectorial** [Car11, DQFL12, FY11]. **Vectors** [PL06]. **Verifiability** [YMC<sup>+</sup>17]. **Verifiable** [SZQ<sup>+</sup>17]. **Verification** [ADHR09, ADR11, BB03a, BDSV06, DPR07, FK06, FK13, Iba02, ILT11, LD01, LN08, LWJ<sup>+</sup>10, MG14, MDAPHPJ<sup>+</sup>11, Pen93, WM13, YBI11]. **Verified** [DVG03]. **Verifier** [Ver09]. **Verifiers** [YSD16]. **Verifying** [FGH<sup>+</sup>07, HV02]. **Version** [CMWZ19, Faa19, Jun14]. **Versions** [BSBZ08]. **Versus** [COT12, DPS97, CV13]. **Vertex** [AT11, ET14, FP04, HW17, Kan15, PRS98, RZ12, SS99, WQY16]. **Vertex-Connectivity** [FP04]. **Vertex-Neighbor-Scattering** [WQY16]. **Vertices** [DW04, GWL<sup>+</sup>17, RR18]. **Very** [FPFS03, FGH<sup>+</sup>07]. **Via** [BCDP08, Kar09, KL05, LN08, YLZ14, Zan91]. **Victor** [CVM20]. **Video** [AF20, HT09]. **Video-On-Demand** [HT09]. **View** [Ami05, DD12]. **Viewed** [Wil91]. **Viral** [DM05]. **Virtual** [BCC<sup>+</sup>11, GNC<sup>+</sup>03, LJA09]. **Visibly** [RT16]. **Visitors** [ECY02]. **Volume** [Ano97, Ano98, Ano01a, Ano02, Ano03a, Ano04a, Ano05a, Ano06, Ano07, Ano08, Ano09, Ano11, Ano12, Ano13, Ano14, Ano15, Ano16, Ano17, Ano18, Ano19]. **Volumes** [BCC<sup>+</sup>11]. **Vs** [SR00a, HKKŠ13]. **vs.** [DTY15]. **VTL0E** [MT95a]. **Vulnerabilities** [DW04]. **Vulnerability** [AT11, AT15, BY18].

**Walk** [BKS12, Li12a]. **Walking** [DPT02]. **Walks** [NR18, Sub05]. **Walsh** [CH15, SH17]. **Watson** [KM08]. **Way** [AM09, BMP15, BHK18a, BKW02, CL15, CFY16, HIR<sup>+</sup>92, HKKŠ13, IJT<sup>+</sup>93, IS12, Kap05, KL11, KMW14b, KMW14a, Obt01, Slo95, ZQL12]. **WDM** [LC18, XLC<sup>+</sup>04]. **Weak** [Asl16,

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**Zhang:2016:OTS**

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