A Complete Bibliography of Publications in
Journal of the ACM

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA
Tel: +1 801 581 5254
FAX: +1 801 581 4148
E-mail: beebe@math.utah.edu, beebe@acm.org,
beebe@computer.org (Internet)
WWW URL: http://www.math.utah.edu/~beebe/

23 October 2019
Version 1.189

Title word cross-reference

(2 + \epsilon) [BYCHS17]. (∆ + 1) [Bar16, HSS18]. (s, t) [ATSWZ00]. 1 [HV95].
1/2N^3 [Yen72]. 2
[AF67, Cha10, CL16, DG16, GR79, HMZ13, HdlT01, Lar76]. 3
[Bul06, Cha10, CNP85, KT17, SS13, Shi10]. 3/2 [TV19]. 4/3 [AB17, CG93]. 5
[MP10]. AC^0 [Bra10]. C [Sla72a]. \cap [AR05]. ∆ [Bar16]. E [GNRS92]. \ell_1
[BC05]. e [AKN+08]. f(z) [RS63]. f(z) = 0 [War57]. g [HI92]. H [DFHT05].
J [CT81]. K [OOW99, AMR11, BBMN15, BG00, BP03a, CK95a, CeLT00,
CGH+05, Gui78, HSTV14, JV01, KLM19, KP95, Lin18, MLS76, Mol18,
ORSS12, PPSZ05, YR78, KIM81]. k + 1 [YR78]. K_m [vdLL86]. L
[CGH+05]. log^c n [BR91]. m [AM78b, DG62]. M' = \bigvee_{i=1} M_i [Sim67, Sim65].
m \times n [NJ57]. n [CK95a, Mey84, MO68, Mou65a, Mow67, Was81, And66,
BJL+82, HP59, Kac79, Mey88, WW73, Yen72]. n + 1 [Mou65a]. n/2/F/
\[ n^{1/5} \] [KT17]. \( N^3 \) [Yen72]. \( NC \) [BR91]. \( O(1) \) [MMR15, FKS84]. \( O(\epsilon^2) \) [Van85]. \( O(g) \) [HI92]. \( O(\log(n)^{4/3}) \) [ATSWZ00]. \( O(\log^2 n) \) [BHR19].

\( O(\log \Delta / \epsilon \log \log \Delta) \) [BYCS17]. \( O(\log n) \) [Bra87]. \( O(\text{sort}(n)) \) [BM11]. \( O(n) \) [FG05, CFM10, Upf92]. \( O(n^2 (m + n \log n) \log n) \) [GT88a].

\( O(n^2) \) [BR91]. \( O((\log \Delta / \epsilon \log \log \Delta) \log \log \Delta) \) [BYCS17]. \( O(\log n) \) [Bra87]. \( O(\text{sort}(n)) \) [BM11]. \( O(n) \) [FG05, CFM10, Upf92]. \( O(n^3) \) [GHL+87].

\( O(n^3 \log n) \) [GHL+87]. \( O(n_0 \log n) \) [BM11]. \( O(1/3) \) [MMR15]. \( O(n^2) \) [BR91]. \( O(n^3 \log n) \) [GHL+87].

\( O(n \log n) \) [BK09, FG05, Hwa79]. \( \omega \) [BGB12, CH84]. \( \Omega(n^k) \) [AIK84]. \( \omega \) [She57b].

\( P \) [All89, SG76]. \( P = 2 \) [CM64]. \( \partial^2 u / \partial x^2 + \partial^2 u / \partial y^2 + (K/y)(\partial u / \partial y) = 0 \) [Ehr59]. \( Q \) [GLH57]. \( R \) [Sla76]. \( R^3 \) [DG98]. \( s \) [AKS15, TV19]. \( T \) [NOT06, AKS15, TV19]. \( t < n/3 \) [MMR15]. \( T_0 \) [Das77]. \( W \) [Lee61]. \( X + Y \) [JK78]. \( X_t = X_{t-3} \oplus X_{t-3} \oplus X_0 \) [Fus90]. \( Z \) [Dix73, Wan93].

-Approximation [BYCS17]. -ary [Gui78]. -automata [BGB12].


-Coloring [Bar16, HSS18]. -Colourings [Mol18]. -Complete [SG76].

-Complexes [GR79]. -D [Cha10, Shi10]. -Dimensional [Mey84, Mey88].

-Domination [Sla76]. -Edge [CNP85, HdlT01]. -element [Bul06].


-Minimal [CT81]. -minors-free [DFHT05]. -Module [Wan93].

-Nearset-Neighbors [CK95a]. -nets [AKN+08]. -Node [WW73, Yen72].

-path [TV19]. -Player [HMZ13]. -Process [BJL+82]. -Resolution [Dix73].

-SAT [PPSZ05]. -Sequence [CH84]. -Sequences [AM78b]. -Server [BBMN15, DG16, BG00, KP95]. -set [CT81]. -Stable [Bui79, SB73].


\[ 0 \mid 0 \] [Sah75]. \( 0S \) [ER80a].

1 [Rid76]. \( 1103 \) [Ban56]. \( 1955 \) [Hou56c].

2.0 [tCL09]. \( 2006 \) [VV09]. \( 2007 \) [LV09]. \( 2314 \) [ADW68].

3-query [Yek08].

407 [Boy57].

50th [Hal03].

60 [Bot62, BG70, RR64]. \( 650 \) [Gor56, HK54].

701 [BO56, GKR55]. \( 702 \) [BBR54].
A* [Dav90, DP85, SW91]. Abacus [Li59]. Abbreviating [BF61].
Abduction [CDOY11, EG95]. abductive [EM07]. ability [NS06a].
Absence [KBI+17]. Absolute [CK65, Gab16]. Abstract [Ehr82, LR72, McL84, Mil73, Nou83, Ove66, BT07, CCM12, GRS00, NOT06, GB92, Hue80].
Abstraction [EPT18, HHHN14, Imi91, vW96, BN01, CGJ+03, DW99, GS07, SP07].
Achieve [Ral59]. achieving [DMR08]. Ackermann [Cha00b].
Acknowledgment [DGS01]. ACM [Ano79, Gra77, Hou56c, Alt03, Ano68, BJP59, Sal70]. Action [LS95].
Actions [Set82]. Activity [SD62]. Acyclic [BMT89, BFMY83, San88, DGP07, GLS01, Ott12]. Acyclicity [Fag83].
Addendum [CH88, EV62a]. Adding [AM09, MS16b, WL85]. Addition [Win65a, YSS78]. Additional [Leu93, BB64]. Additions [Yen72]. Additive [AB17, BSLRZ14, GSK59].
Address [Car57, Elg54, Eli74, Flo60, Hou56c, Hou57, IS56, Lip57, PK87, TTK66].
Addressable [Ros72]. Addressed [Kau71]. Addresses [BAG92].
Addressing [AGOW66, Tra63]. Addressless [Bli72]. Adjacency [ADK17].
Aggregate [Klu82, RSG05, CNS07, HLNW01]. Aggregated [Ste83].
Aggregating [ACN08]. Aggregation [CS85, Knu83, Van78, Van85].
Aggregation/Disaggregation [CS85]. Aging [Via87]. Agreement [ALI09, DLR5, DL+89, DRS90, KS16, CeLT00, KS11, LLR06].
Agreements [PSL80]. Ahead [San69]. AI [Red03]. Aid [KH64]. Aided [BT69, GR74]. Aids [Pra60]. AIMD [WSY+19]. Aitken [GL64].
Aitken-Hermite [GL64]. Algebra [BHK90, GTWW77, Klu82, NB95, Sal66, SV85, Wil62, Yeh68, YR64, KJJ03, LW08]. Algebraic [ACPS93, BHR84a, BG15, Bra67, BIZ18, ES17, FL18, GUK+16, GMM81, Hen64, HM85a, IW91, Ja’83, KT78, Lan59, LKK83, LFKN92, LT93, Mar71,.
Almost-Linear [Gab82, GS06].

Almost-tight [AZ08].

ALOHA [Tob82].

Alpha [Pit06, Yer66].

Alpha-structural [Pit06].

Alpha-structural [Pit06].

Alpha-structural [Pit06].

Alpha-structural [Pit06].

Alpha-structural [Pit06].

Alpha-structural [Pit06].

Alpha-structural [Pit06].

Alpha-structural [Pit06].

Alpha-structural [Pit06].

Alpha-structural [Pit06].

Alpha-structural [Pit06].

Alpha-structural [Pit06].

Alpha-structural [Pit06].

Amplification [CKOR14, Din07].

Amplifiers [GGG +17, HK55, HA56].

Amplifying [AK10].

Analog [BW57a, Edw54, Fif58, HS55, Mos55, SR60, Wad56, ZL58].

Analog-Digital [BW57a].

Analogs [Sha66].

Analogue [Ehr59, Fis56, Jac54, LWS55].

Analyses [McA02].

Analysis [ADW68, Abe68, AMR11, AM70, Bak62, BB77, BN71, BBH+87, BKK14, BR15, BS89, Bur76, But78, CDOY11, CW65, Cof08, Cof09a, CG86, CPT94, CM57, CM67, Dau88, Dav17, Deb92, DI87, Doy65, EBA72, FHV91, Flo61a, Flo63, Fra69, Fra58b, FB75, GG78, Gav71, Gil60, Gil65, Gl691, GW76, Gui78, HP72b, Hem64, HC88, Hoc65, Hol84, Hou56a, Jet56, KU76, KT69, KR92, KTH94, Kon77, KSS75, Kri64, Lar83, Lat81, Lie59, MY80, Mil73, Moc71, Mor68b, Mot94, NBC72, Neg66, Oli67, OM78, One75, PKT90, Rah70, Ram66, Rao78, RL80, RL81, Ros79a, RT90, Sal73, San88, SS17, SAKS64, Sni84, ST73, Sti65, Sur87, Tv84, TTK66, Vit83, Vit87, Wal61, Wel66, Wil61, Win65b, WM74, You58, YL77, Zar59, ZS99, AW08, AS13, BG01].

Analyzing [AB05, Gof71, Hae16].

Anarchy [Rou15].

Ancestry [FK16].

Anniversary [Hal03].

Announcement [Ano58a].

Anomalies [BK86, BK87].

Anonymous [AAHK94, ASW88].

Answer [Nag61].

Answering [CM87, Coo64, Koc69, Win82, AL08].

Antiferromagnetic [GSV15].

Antonymy [LBB67].

Any [BM92, BHT18, LP15, Was80, KSS10, PW93].

Aperiodic [BMT92].

API [BFM +19].

Applicable [Lie59].

Application [AM78b, BHK59, BG77, Bre70, CLRS86, Doy65, FM79, Gil63, GSV84, Jom62, Kob74a, Kob74b, Mos58, Sag80, Sch61, Sup83, YR64, Zaf70, JRS09, SS06b].

Applications [AEK +12, Ban58b, BKST78, BLMS97, CK95a, CW67, CK15, CDRS93, CGS15, FLPS16, FK16, Haj83, Har86, Har86, Hib62, HL87, HMR83, HST74, Hue80, JPS4, Kob74b, MSM85, MO68, OM78, ORM61, PV76, RC69, ST72, Tar79, Val15, Ver95, Yel68, YW73, ANP +04, AZ05, AAF +97, Bas99, BDG +13, CKL13, FG99, FLMM09, GSS99, GKP806, GK96, LNT97].

Applied [ABF17, BK77b, BFGL79, Jac54, RTW94].

Applying [Meg83].

Approach [AV89, AK16, BGP84, BL90, Bea72, Bea73a, Bea73b, BSLRZ14,
Approaches [BM85, BK72]. Approaching [GKKS14, TV19].

approximability [DJJK08]. Approximate

[AGT15, Bab16, CLRS16, Cry70, DLP+86, Gel75, HS76, Hou58a, KMS98, KS75, KPW18, LPSP15, MS19, Moi19, PTK90, Sah75, TZ05, Wig83, AMS05, AMN+98, AMM09, Cha00a, CGH+05, Mye99, Tho04]. Approximated [PW93]. Approximately [Hab70, LOS02]. Approximating [AHPSV97, AHPV04, CDPP14, CR86a, Gel75, HS76, Hou58a, KMS98, KS75, KPW18, LPSP15, MS19, Moi19, PTK90, Sah75, TZ05, Wig83, AMS05, AMN+98, AMM09, Cha00a, CGH+05, Mye99, Tho04]. Approximation [Abd71, AHPW19, Bak94, BYCHS17, BMH11, BC61, BLTY94, Blu94, BH65, BGRS13, Cha16, CLTZ18, CL16, CW17, Con57, Cru76, CF59, DDFS14, DJSW19, DP14, Dun74, FLS18, Fre79, GLH57, GMS10, GKPR07, HM85b, HS86, HS87, IK75, JV01, KLS05, KT02, Kob74a, Kob74b, Kur62, Mas56, MSU99, Rid76, SG76, Sha70a, She57a, Shi69, Sto64b, AY13, BKL99, DLT07]. Architecture [Val00]. Architectures [HRS88]. Area [BB95, BK81, BK82]. Area-Time [BK81, BK82]. Area-Universal [BB95]. Arguments [Ked79]. Arising [Cry71]. Arithmetic

[Alt88, AAB17, AM59, Ash64, BL19, BSZ65, Bre74, BFGL79, Cha90b, CS83, EV57, Erc60, GL70, Hei71, KL73, Kan65, Mat90, MP76, Pap87, Par55, RR64, RZ65, Raz13, Rei87, SU70, Sho79, Win75, HJV01]. Arithmetical [Jef56, CM57]. Arithmetics [Wad60]. Armstrong [BDFS84]. Arrangement [Riv78, Yan85]. arrangements [ANP+04]. Array [AK84, DS78, Fis65a, Fra76, Fre82a, Kau71, SJ80, KSB06]. Arrays [GE84, KA88, Ros74, Ros75, RS77, Wai67]. Arrivals [Adi73, Del70, SB82]. Arrow [Vaz12]. Arthur [HM13]. Article

[Tar17a, Tar17b, Tar17c, Tar17d, Tar17e, Tar17f, Tar18a, Tar18b, Tar18c, Tar18d, Via11b, Via12c, Via12d, Via12e, Via12f, Via12g, Via12h, Via12i, Via12j, Via12k, Via12l, Via12m, Via12n, Via12o, Via12p, Via12q, Via12r, Via12s, Via12t, Via12u, Via12v, Via12w, Via12x, Via12y, Via12z, Via13a, Via13b, Via13c, Via13d]. Articles

[Ano15, Tar16a, Tar16b, Tar16c, Tar16d, Tar16e, Tar16f, Tar16g, Tar16h, Tar19, Via11d, Via14a, Via14b, Via14c, Via14d, Via14e, Wai15, Via10b, Via11c, Via13f, Via14g, Via14h, Via14i, Via14j, Via14k, Via14l, Via14m, Via14n, Via14o, Via14p, Via14q, Via14r, Via14s, Via14t, Via14u, Via14v, Via14w, Via14x, Via14y, Via14z, Via15a, Via15b, Via15c, Via15d, Via15e, Via15f, Via15g, Via15h, Via15i, Via15j, Via15k, Via15l, Via15m, Via15n, Via15o, Via15p, Via15q, Via15r, Via15s, Via15t, Via15u, Via15v, Via15w, Via15x, Via15y, Via15z, Via16a, Via16b, Via16c, Via16d, Via16e, Via16f, Via16g, Via16h, Via16i, Via16j, Via16k, Via16l, Via16m, Via16n, Via16o, Via16p, Via16q, Via16r, Via16s, Via16t, Via16u, Via16v, Via16w, Via16x, Via16y, Via16z, Via17a, Via17b, Via17c, Via17d, Via17e, Via17f, Via17g, Via17h, Via17i, Via17j, Via17k, Via17l, Via17m, Via17n, Via17o, Via17p, Via17q, Via17r, Via17s, Via17t, Via17u, Via17v, Via17w, Via17x, Via17y, Via17z, Via18a, Via18b, Via18c, Via18d, Via18e, Via18f, Via18g, Via18h, Via18i, Via18j, Via18k, Via18l, Via18m, Via18n, Via18o, Via18p, Via18q, Via18r, Via18s, Via18t, Via18u, Via18v, Via18w, Via18x, Via18y, Via18z]. aspects [Gui78]. ASCII [Cha81, Sar83]. Aspects
Associative-Commutative [Sti81]. Associativity [Sla74]. Asymmetric [CGH⁺05, KLSS05]. asymmetry [Vöc03]. Asymptotic [BC61, Har66, KT90, MM84, McK87, MM86, MPT96]. Asymptotically [GST16, Hor78, LT82, TRE73, CKOR14]. Asymptotics [MW84].

Asynchronous [AACH⁺14, AFL83, ABND⁺90, ADG15, Bau78, Boj84, BT85, BS89, EGM16, GGGK13, HYC16, JT75, Liu63, LM86, MMR15, TS95, ÜD90, AC08, DFSL14, HS99, MRR03]. Atomic [AAD⁺93, AACHE15, AACHE18, GPV89, HV95, Her90, SAG94, AKMS11, FG10]. Attack [Cun85].


Authoritative [Kle99]. Autoepistemic [Got95b, MT91]. Automata [Aho69, ADO91, Arb61, Bar65, Bav68, BM70, Bro64, BW57b, BW57c, Bur70, Con91, DH94, FMNP19, Fle62, FHO72, Fri62, Gin61b, GHH67a, GHH67b, GH70, GB69a, GB69b, GB69c, GB70, Har66, HS68, Har69, HH94, Hu68a, KV94a, Ke61, KB67, KS66, Lee61, PP65, Pic67, RC69, Rit63, RS94c, SEY15, Tra66, Ukk82, Ul69, Val75, Wee65, Wee67, Win64, Yeh68, Yee65, von66, ANTSV02, BGB12, BBB⁺00, FP98, KVV00, OG96, TS10].

automata-theoretic [KVV00]. Automated [BG01, BY96, GOBS69, MW86, Ove74, Sla74, Win82]. Automatic [BB77, BB64, Cha66b, CM94, DL56, Doy65, Edm69, Gia64, GKR55, Gri73, Hen56a, HW55, KU80, Koc69, Lan59, Mar61, Mea93, Mel56, Mos55, Nev70, Nev74, O'C65, Oet57, Per54, Sal73, Sch61, Sco58, Sla67, Sla72b, Smi82, Sw57, YL57, Yer66, YS76, YSS78]. Automatically [Hob93]. Automating [HC88]. Automaton [Fle65, Oeh63, Wee62, BY96].

Automorphism [Fle65, Wee65, Wee67]. Automorphisms [Bar65, GB69a, GB69b]. Availability [Her90, LM94b, dG89]. Average [AM85, BKST78, CM89, HRST17, Mot94, RS66, Rid76, TS95, JLW00, Lue09, SSS06]. Average-Case [HRST17, Mot94, JLW00]. Averaging [CDPP14]. Avoidance [Min82]. Averaging [CCS14, Mor97]. Aware [DJW14]. Axiom [Cla79, Sal66]. Axiomatic [Bea72, Bea73a, Bea73b, MH82, AT10, BT00].

Axiomatics [CK79]. Axiomatization [SU82, Sci82, Kif98]. Axiomatizations [CGH83]. Axiomatizing [Men79]. Axioms [Dix73, Wan93, DFPP02]. AYDAR [ZL58].

[Sim67, AGG62, BP89, Bre70, BDG+13, GKR16, HRST17, HP72a, Har63a, Hay76, Hir58, KV94a, KLV94, KB81, Law64, Lee02, MP65, MP66a, Nat67, Sim65, SV85, Svo75, War62, WM74, YCW99]. Boosting [FGMS05]. Both [KW66]. Bottleneck [GG78, HS86]. Bound [And65a, Bry82, Das75, ES86, FGR+17, Fre81, GW85, Hel89, Iba77, KZ93, Kir81, Kla85, KS74, MST91, Mor73, Raz19, RS94b, Rub15, Sch88, Smi84, Yao81a, CR12, JLV00, Ste03, SM02]. Boundaries [BN13]. Boundary [AT71, Ber54, BH65, CM60, CM61, Col58, CD60, Cry70, Cry71, Ehr58, Ehr59, HW67, MP59, Usm66, Was71, Yak76, Zaf69]. Boundary-Value [Was71]. Boundary-Value [Was71]. Bound [And65a, Bry82, Das75, ES86, FGR+17, Fre81, GW85, Hel89, Iba77, KZ93, Kir81, Kla85, KS74, MST91, Mor73, Raz19, RS94b, Rub15, Sch88, Smi84, Yao81a, CR12, JLV00, Ste03, SM02]. Boundaries [BN13]. Boundary [AT71, Ber54, BH65, CM60, CM61, Col58, CD60, Cry70, Cry71, Ehr58, Ehr59, HW67, MP59, Usm66, Was71, Yak76, Zaf69]. Boundary-Value [Was71]. Boundary-Value [Was71]. Bounded [AM85, BHM11, Con91, Coo71, DH94, ES17, Fre85, HV02, HH94, Hu69, Iba78, Lov16, MS92, SS79, SL15, Sud75, TS74, BFU01, BL04b, DR03, DFHT05, DW99, MLS76]. bounded-genus [DFHT05]. Bounding [CM96, HKP84, ZS99]. Bounds [Abe80, AAHK94, AC81, AG17, AHU76, AACH+14, AH92b, ADLS94, BH89, BZ14, BBBL95, Car58, Cau58, CN95, CG67, Cha90a, Cha90b, CC16, Che19, CHK82, CS84, CFG+17, DHK19, DR85, DCKT92, FL74, FMP+15, FB72, FG79, GR60, GLV12, GYY80, Gup79, HHHN14, Hlb61, HS78a, HS78b, JK78, Kar67, Ked79, Kis91, KMW16, Kun76, LFT8, LMNM03, LY89, LM94b, Mey85, MP75, NW73, Oma77, P KR84, Pet15, Pot17, Raz13, Re80a, Rob74, RVW18, She14, Smi70, Ste83, SEY15, Tiw87, Tsa74, Wil14, WC76, YY76, AC04, AC05, AK10, AAF+01, Asp98, AC08, BBC+01, BSSV03, BLR10, BL04b, CR12, CeLT00, CKL+07, CD08, EFR07, FG10, FLvMV05, FV02, GHS13, GHS09, HCM+02, Kol04, LRT79, Lue09, Niv10, Raz04, SS13]. Box [KNY19, ZS99]. Bracketed [San72]. Branch [Hel89, Iba77, KZ93, KS74, Smi84]. Branch-and-Bound [Iba77, KZ93, KS74]. Branching [BIZ18, EH86, Weg88, vW96, DV95, KVW00]. branching-time [KVW00]. break [BK79]. Breaking [ADH15, BEPS16, KS11, DI05, DMR08]. Bridge [Ber63]. bridging [Zwi02]. Broadcast [AGPV90, BT85, FGL77, FKL98]. Brouwer [CD08]. Bich [CH14]. Bucket [Tra63]. Buckets [BK77a, DR03]. Buddy [PS70]. Buffer [BGH+95, GL71, Hof77]. Buffering [Fer60, MS59, Sch72]. buffers [BFU01]. Building [CJJK00, Cur63a]. Built [Sla72b, Wan93]. Built-in [Sla72b, Wan93]. Bulk [Ad73, Dcl70, Hm72]. Bureau [Mey65]. Burroughs [Mic57]. Burrows [Man01]. Bursts [Das75]. Business [PM71]. Busy [BN71, Dad88, NBC72]. butterfly [BCH+96]. butterfly-like [BCH+96]. Byzantine [Sminated, DR85, DRS89, DW04, KS11, KS16, LSP2, Lam83, LR09, LRR06, MMR15].

C [Ano98b, OM78]. cabbage [HP99]. Cache [Rao78, FV02, SCD02].
cache-efficient [SCD02]. Calculating [BS74, CLW95, GK58, Leb56, dG89, dL89]. Calculation [AS54, Col71b, Fljo60, IS56, von56]. Calculations [Cha66b, Sto64a]. Calculator [BT57, HK54, Mos54, Par55]. calculi [BG98, CHL96]. Calculus [ABF17, Bra78, Fra61, Fri63b, Klu82, Man69, Sla63, Sla70, van72, DKP07]
DST80, HM90, Hel89, Hir77, Kal88, MST91, MO68, NT93a, PS80, Lue09]. **Communicating** [Apt83, BZ83, BHR84b]. **Communication** [ABF17, AAF+94, AGPV90, BKS17, BSLRZ14, BEGH17, CIV88, CYZG14, Chu81, DG16, FLMS93, GKR16, Jai15, KLPP15, Lam86a, Lov16, LT93, Mae77, Sar83, She14, Tiw87, TS95, Up84, AAPS96, BPC+12, BDHS12, FKL98, GJS12, JRS09]. **Communications** [MC87]. **Commutative** [Baa93, Kor89, Sti81]. **Commutativity** [Sla74]. **Compact** [Tho04]. **Compactly** [ABF+02]. **Comparative** [BM83]. **Comparing** [Alt88]. **Comparisons** [Yen72, FG05]. **Compatibility** [Gin61a, RG67]. **Compatible** [RBCC19]. **CompCertTSO** [SVN+13]. **Competitive** [BBMN15, IKM17, BG00, CL11]. **Compilation** [FU82, Lib01, SK96]. **Compiled** [Dix73, GHG60]. **Compiler** [MO56, Moc56, SV8+13, Sim63, Hoo03]. **Compiling** [GGH67b, HN84, Pet62]. **Compiling-Parameter** [Pet62]. **Complementation** [Rei84]. **Complementedness** [HU66]. **Complements** [ERR81]. **Complete** [Bak94, BBH+87, CM87, CK79, ET76, GHKL11, GI94, Ja90, Mic76, PS81b, Pie73, Rei86, Röc84, SU82, SG76, Tal66, Sch78, Sci82, Sl72a, Yen72, APR13, BT95, GRS00, GP+19, HHR97, SV03, TKB95]. **Completely** [Hab70]. **Completeness** [AB70, Bau85, BE97, CS71, Dav77, GJ78, HW90, HL76, HR91, Kap68, LF88, SW82, VVAG97, WRC65, MS19, SW01]. **Completion** [GHS75, SSS06]. **Complex** [ABL80, BIW63, CC17, GB74, Lyn75, Pen65, WS76, Wl78, PD98]. **Complexes** [GR79, BER06, DG98]. **Complexities** [Alt88, FZ77, HU68b, Iba72, MP75]. **Complexity** [AVV97, AP93, AHE76, All89, ABB+17, AACHE15, AACHE18, Awe85, Bab16, BY73, BSLRZ14, BS+16, BKK+18, BP89, Blu67, BG15, BD87, Bor72b, Bor72a, BK81, BK82, Bsh03, CC17, CV17, CM85, CF12, CYZG14, CPY17, CST+18, COW16, CS77, CR86b, CY95, CS99, Dil89, EG95, EF75, ESY85, FT88, Fre81, Fre82a, GJ76a, Gat83, Gen78, GL76, GS93, Gk48, Gp18a, G81, Har68, Har69, HH71, HHPW14, HZ16, Hod70, Hum82a, Hum84, HK77, IKL+19, Ja84, Jai15, Jaz81, JS82, JM78, KB89, KNY19, KMRZS17, KP96, KP+15, LR72, LS81b, Lin18, LS86, LT93, Mai78, MSY81, MT85, Mar58, MM81, MHG+88, MP65, MP66a, MSM85, Mor73, Mor75, MGLA00, Oks84, Pap76, Pap81, PY82, Pap84, PF79, Pip89, Raz16, Rot17, SLM19, SH88]. **Complexity** [SF77, Sel72, SS8U83, SC85, SV85, Sud75, Sud78, TZ16, Tiw87, Tor91, TW79, TS95, Weg77, Weg88, Wil70, XDB83, Yan79, AGHK99, BPC+12, BG01, BR96, BK10, Bu13, BL04b, CSV09, Cha00b, CDT09, DMR08, FCFM00, FHS98, FKP13, GLS01, GKP805, Gro07, Har03, HLP99, JLV00, JS96, KZ13, McA02, MPT96, MMHW97, M111, NR09, Raz03, SM02, tCL09]. **compliance** [LMW05]. **Component** [CH14, DST92a, DST92b, HW90, Sam61, CLMW11]. **Components** [Nat67]. **Composite** [DI87, Ral59, SB73]. **Composition** [Weg69, LLR06].
Compositional [Bro97, CDOY11]. Compound [von62]. comprehensive [JS96]. compressed [FM05]. Compressing [FLMM09]. Compression [BW94, GS85, Kor58, MY16, RPE81, SS82, Tar79, ABF+02, BFG03, FGS05, VK96]. Compromise [KG74]. Computability [AFR19, SS63, TNS82, ZW03, HS99]. Computable [Abe68, CG67, Ste83, BT95]. Computation [BKS15, Ban56, BW57a, Bro71, CM85, Col71a, Dal73, DVSC77, Dye68, EV62a, EV62b, Fik59, FLPS16, FJ60, Gab16, Gau61b, GKR15, GHKL11, HS55, Ja80, Kam87, Kap68, KZ93, KMW16, LF80, Lar76, LV57, LY89, LT93, Mac55, MST93, Meg83, MY84, Mor75, Ove66, PS80, Rho94, RVW18, Smi71b, Yao82, AM07, BSSV03, DP01, GN08, Ind06, Val00]. Computation-Universal [Smi71b]. Computational [AVV97, Bot72a, Har68, HH71, HZ16, KS63, KP90, MW84, Par61, PV88, Pra60, RKN75, SK73, Sav72, Sri65, Sri76, TM73, Wil70, Fei03, HLP99, MMHW97, RS00, Bot72b]. Computationally [GS16]. Computations [Abe80, Ano57, BB70, Bau85, BL79, BP89, Bli62, Gen78, Giv58, GK84, HH63, Har68, Hem64, Hen56a, Hen56b, Hun84, JS82, KMW67, MS19, MST91, ME67, Mát90, NJ57, Py64, Re68, San96, Tsa74, Wei55, WJR57, BL99]. Compute [CAA74, Rei87]. Computed [KT78]. Computer [Adi69, AK70, Ano56a, Ano56b, Ano56c, Ano56d, Bau58b, BK72, Bha59, Blu58, BO56, Bra77, Bra67, BT69, BFGL79, Chn65, Cof69a, Cof69b, Den61, Den58, Den65, EV57, EV62a, EV62b, FH80, Flo60, Flo61a, Fri63a, Fri56, GPS83, Gav67, Gel75, Gla57, Gsch57a, Gsch57b, Gsch57c, Gsch57d, GL70, GR74, Got54, Ham69, Hol62a, HR63b, HR63a, HY77, Isr57, KS78, Kam80, Kob74b, KSS75, KS77, Lan59, Lat81, LS88, Le57, LNSW59, LY61, Les58, LS71, Lie59, LR65, LKd83, LM94b, Mae77, Mam66, Mau66, MC74, MO56, Mil75, Min60, Mos87, Nel87, Neu54a, Neu54b, Neu54c, Neu54d, Neu55a, Neu55b, Neu55c, Neu55d, Par55, Per56, PPV60, Pri76, Ras70, RS66, RS76, Rob63, RY91, Row57, SM64, SL68, Sal72, SGR75, SAKS64, TT85, Ti58, Tiw87]. Computer [Wad56, Wal61, Wil62, Wun67, dG89, Bro03, Cor03, Val03]. Computer-Aided [BT69, GR74]. Computer-Feasible [Wal61]. Computers [ABV60, BC54, BR54, Coo71, CU59, Dub66, Gol82, Har64, HST76, HI59, Jac54, Lip57, Mu57, NS80, Rub58, Sch64, Sch66, Svi57, Wil68, Wiri68a, Wiri68b, CRS01, KP02, Lam03]. Computing [AGMT95, ASV06, Ano68, Ano74, ASW88, BNNS94, BIW63, BCL19, CKM+14, Chn66a, Chn69a, Chn69b, Cor63, CM57, DP60, DG98, DH59, Elg54, Fre65, Fre82a, Gal82, GF60, Gus83, HS74, HS75, JP84, Jef56, LW63a, LW63b, LS87, LM86, LM94b, OD67, PR08, Ric84, Sho81, Wan57, Wil78, Wil54, Zad72, ALS09, BP03b, CDT09, EM07, FKP13, Hoa03]. Concave [EGGI92b, VY11]. Concavity [DLT94]. Concentration [Men15]. Concept [Sti73, Svo75, WRC67]. concepts [BGM+98]. Concerning [And68a, GI65, Iba72, Lio71, Men65, Pct67, PT57, Rob74]. Conclusions [GM56]. Concurrency [BC14, BBG89, DH94, HM85a, Her90, HH94, Klu83, Pap82, Pap85, SVN+13, YDL93]. Concurrency
[ACHS16, CRR18, CHL01, DNS04, LTV96, MM79, Pap79b, Pel87, SM90, 
VV12, AACH12, DW99, HV02]. Condensation [Mac57]. Condensers
[Pul55, BKS+10]. Condition [Esc60, FL74, Fre82b, Fre85, Loi69, CS99].
Conditional [AFR19, Bro82, Ham56a, Set78]. Conditioning [Osb60, MS19].
Conditions [AGHR17, Bon70, Bra77, Bro90, Chu61, CD60, Ern69, Gav71, 
Gla91, HW67, Mad66, Mit72, MRR03, Ats04]. Conductance [CGL18].
Conference [Ano57, Giv58]. Configuration [GE84, KS78]. Configurations
[Ehr63, SS13]. Confinement [BN05]. Conflict [LR78]. Conflict-Free
[LR78]. Conflicts [BCW85, GW85, GFL87]. Confluence [CHL96].
Confluent [Boo82, Hue80, CKL+07]. Conformal [Rab66]. Congestion
[CL16, ARV08, AZ08, CN06]. Congruence [NO80]. Congruences [LV57].
Congruential [ADH63, DKRW15, HD64, Wes67]. Conjecture
[CR86a, CG93, GOS13, KV15, Kor89, KP95, KMR95, Was81, HN07].
Conjunctive [AGK+17, GKS06, GLVV12, Klu88, Mar13, ADK06, CNS07, DS12, GLS01].
Connected [AK84, DST92a, DST92b, HW90, KA88, Mae77, NS80, Sam81].
Connected-Component [DST92a, DST92b]. Connecting [LM57].
Connection [BE97, Jok93, KLM*97, Kow75, NS82, GGR98, SO1, ŠVV09].
Connection-Graph [BE97]. Connections [Bib81, WL57]. Connective
[Gin60]. Connectivity [BM70, ES17, KT19, MP71b, Pot17, Ram66, Ros70b, 
Yan79, Yel75, ATS800, BPC*12, Gab06, HdlT01, Rei08]. coNP [AR05].
Conquer [DS13, ENRS00, FK09, Ron01]. Consecutive [CCS14, Gup79].
Consensus [BT85, CHT96, CMS89, DDS87, DLS88, FLP85, JSS16, LR19, 
MMR15, AKMS11, Asp98, AC08, MRR03]. Conservative [Nic93, KZ13].
Considerations [Cha69a, Ram66, She67]. Consistency [AGHR17, BK14a, 
Har60, Kra62, Mar59, SK80, SN04, ZY03, vD95, vD97, AL08]. Consistent
[BDFG19, CK79, PW93, Ros71, FKL98, MP10]. Constant
[AM94, BSSK+16, BFY919, BR71, BHT18, BEG17, CMS89, Gal95, 
HMZ13, Hob89, Hof84, LP15, LNN93, GMPS00, KLOW00]. Constant-Rate
[BEG17]. Constant-Round [LP15]. Constant-Service [Hof84].
Constant-Time [CMS89, Gal95]. Constants
[CLW95, Dub66, Lam82, Pla04]. Constrained [FK85, GC65, PM71].
Constraint
[BK14a, BAG14, BMR97, BMM18, CLRS16, Das75, EW75, LM94a, Mar13, 
vD97, Bas99, BDLW98, BK10, Bul06, Bul13, Gro07, ZY03, vD95]. Constraints
[BLT93, GJS82, Gri86, IKM17, Llo82, MH89, Ram80, Shr70, 
CJJK00, DJJK08, FL02, JCC97, Pac10]. Construct [GGM86, Rem81].
Constructing [HV95, JSS16, Kle67a, OG96, ST80, KLOW00].
Construction [CBHH61, CY82, CS77, Dil89, Jaz81, MF63, McC76, Sum77, 
Yu75, FCFM00, KSB06, Kel73b]. Constructions
[GS16, Wil70, BKS+10, NR04, Reg04]. Constructive
[HSS11, RBCC19, MT10]. Constructs [Cla79]. Containing [Klu88].
Containment [HR77, MM81, MS04, tCL09]. Content
[Eli74, Heh77, Kau71, Min70]. Content-Addressed [Kau71]. Contention
contention-resolution

Context [Aho68, BBK93, CRGM78, Ell72, Gab16, GS63, GU66a, GU66b, GL76, Gor63, GHT2, Gre65, Gre66, Gre69, Har67, HU66, Hib74, Jez19, KT69, Kor89, Mau69, MSW83, Par66, Pav72, Ros68, Ros70a, Ros67b, Sud75, Sud78, DR00, Lee02, MLS76]. Context-Free [Aho68, BBK93, CRGM78, Ell72, GS63, GU66b, GL76, Gor63, GHT2, Gre65, Gre66, Gre69, Har67, HU66, KT69, Kor89, Mau69, MSW83, Par66, Pav72, Ros68, Ros70a, Ros67b, Sud75, Sud78, DR00, Lee02]. Context-Limited [Hib74].

Coupling [Ram80]. Covariance [Pag76]. Cover [BYCHS17, BRK74, Fei98].
Covering [BG77, Bre70, Fri73, GH72, Hen79, HM85b, Mic76, SK73].
Coverings [BG77, Bre70, Fri73, GH72, Hen79, HM85b, Mic76, SK73].
Covers [Mai80, Ott12]. CPU [BN79, TWS80]. crash [BN01, VJ00].
Crashes [FLMS93]. CRCW [BH89]. Creating [VVAG97].
Credit [Sal60]. criteria [BT00]. Criterion [Ema63, Kna75, SS58, Wil59a].
Critical [Llo82]. Criticality [BBD+15]. Critically [Par79, Par80].
Crout [GLW70]. Cryptographic [KV94a, Reg04]. cryptographically [AW08].
Cryptography [AAB17, May01, Reg09]. CS [McC03]. CSP [CC17, DJJK08].
CSPs [BDG+13, KZ13, TZ16]. Cumulative [Wei62].
Curve [Aki70, Bas58, VV63, Fer64]. Curve-Fitting [VV63]. Curves
[GR74, Hob89, PB89, Ros73b, GK99]. Customer [Mit72, PTW88, Tre54].
Customers [AAI69, BCMP75, CM96, Kam82]. Cut
[KV15, Mar76, Yan85, CK09, GW95, KS96, LR99, SW97]. Cuts
[Joh87, Kar00]. Cutset [TSOA80]. Cutsets [CNP85, TSOA80]. Cycle
[Cho80, Gil69, OM78, SD83]. Cycles
[APY91, CM93, GGS15, GT89, Wei72, DL07]. Cyclic
[Adi73, BKK84, Cho80, LS71, Wei66]. Cyclic-Queue [LS71]. Cyclically
[WL85]. cyber [VH06].

D [Cha10, Shi10]. DOL [CH84]. DAGs [DI05]. Danilewski [Han63]. Data
[ADLM14, APR13, AF58, AS97, BV84, BJL+82, Chu81, DL56, Ehr82, FP86,
Fre83, GS85, Goo11, GK84, Gru86, Her90, HWB56, KU76, Kon77, KUB+15,
Kow79, LVM16, LED76, LRY80, Lom62, Low68, McG59, Mor68b, Oct57,
Opp80, Orm61, RG67, RPE81, Ros79a, Ros72, Ros79b, Sar83, Sch64, SN85,
SS82, Tre54, UD90, VV63, Wal61, WS76, WL85, ZL58, AFN04, AZ05, AL05,
AL08, AACH12, BKL+05, BT07, BS09, Cha10, FK11, FG99, FW01,
Fre99, GE01, GN08, GS10, GS09, Ind06, PMH09, VK96]. Data-Oblivious
[Goo11]. Database
[AV89, BFMY83, BK86, BK78, CM87, CH91a, FAG82, FAG83, FH80, GMSV93,
Gal82, GS83, GPV89, Had88, HY84, Jac82, Klu83, Kor83, Lie82, Mai80,
MW84, Pap79b, Pap82, Pap85, RT90, Sac85, SDPF81, SDPF87, Sag91, Set82,
SK80, VVAG97, Via87, Wil91, Yan82, YDL93, BLR13, MS96]. Databases
[Abi85, BBSN94, Dea89, ES76, HN84, IL84, Lip81, MH89, Men79, Rei79,
Rei80b, Rei86, SU82, TSG85, Bas99, GE01, Kif98, RSG05]. Dataflow
[Deb92]. Datalog [Ros94, GK04, HSS01]. Davenport [Niv10, Pet15].
Davidon [Ste67]. Davis [NOT06]. Dead [Kou77]. Deadlines
[GJ76b, Mar82, PTW88]. Deadlock
[AH92a, CR95, DG84, IAWK83, Kam80, Min82, JS03]. Deadlock-Free
[DG84, IAWK83, JS03]. Deadlock-Freedom [Kam80]. Dealer [Rab94].
Dealing [FCB08]. Debreu [Vaz12]. deBruijn [CDMP92]. decade [Via10a].
Decentralized [Jaf83]. Dechter [ZY03]. Decidability
[BBK93, BGG17, FL88, Hun82b, Hun84, OPSPW19, SJ05, Ven87, Kif98].
Decidable
[AMP73, CH84, ER80a, GF80, Gur85, HU68a, KS66, SMK18, GG13a].
Deciding [CNS07, ES17, FG01, GKS17, IM83, Jez19, LS77, LB79, Sho81, Sho84, Van07].
Default [Got95b, TK91, FH01]. Defects [GE84]. defender [JS08].
Definability [GR63a, Ros68, Gro12]. Definable [BLSS03, Ros67a]. Defined [CF59, Opp80, Tor91]. definedness [Van07]. Defining [HHF93, VV12].
Definite [Di 69b, PP65, RC69, dS58, AT11]. Definition [San88, GL70].
Delaunay [BM11, Rub15]. Delay [Haj83, OM78, OR90, Tal82, DGS01, GMPS00]. delaying [CW96]. delays [LMNM03]. Delegating [GKR15]. Deleting [LR81]. Deletion [Che19, ES81, YS78]. Deletion-type [Che19]. Demand [Gav71, HY75, IK74, Mit72]. Demand-Interrupting [HY75].
Dependencies [BV84, BDF88, CKV90, Fag82, Hon82, MSY81, Men79, SU82, Sag80, SDPF81, SW82, SDPF87, Sci82, Via87]. Dependency [ADS83, Cur62, Gal82, GZ82, GMV86, GJ82, Hul84].
Dependent [Del70, GKPS86, MM86, OR90, Rid76, Tow80, AZ05, WSY19]. depending [CS99]. Depth [GKKS14, HRST17, LM93, Nau83, RW92, Wil84, SS13, SPK13]. depth [SS13]. Depth-First [Wil84]. deques [KT99]. derandomization [AC98]. Derivability [Coo66]. Derivation [Flo64, Hog81, MS74, Yel75].
Bel60, Bel62, BN79, Bon70, Cha01, CH14, DHSS95, EGGI92a, EGGI92b, FN93, FMS97, Gli63, GMMS81, GR17, Hel89, Lam82, MW78, MT93, ÖWA91, Pel87, Rob71, Rob74, RT90, SAKS64, Via87, Vit87, WL85, Yi12, YZJ18, vO93, BFU01, Cha10, DI04, DI05, EGIN97, GIS99, HK99, HDLT01, Mye99.

Dynamics [AAGT15].

DynFO [DKM18].

DYSEAC [Lei54].

E. [SW01]. Early [DRS90]. EASIAC [Per56]. Easy [Hae16, LR19, SV88]. Eavesdropping [FGY00]. Economical [McC76]. Economization [Ral63]. Economy [Log78]. Eder [SW01].

Edge [CL16, CNP85, CS81, HW04, KT19, OR90, Pap76, Wag76, AZ06, HDLT01].

Edge-Deletion [ES81]. Edge-Disjoint [CL16, HW04, AZ06]. Edge-Length [OR90]. Edge-Sparse [Wag76]. Edges [Hue71, Huc73, Huc74, MS16b]. edit [OR07]. Editor [GG61, Goe61, Lei91, Liv60, NAG61, Ano56e, Erc60, Hal97].

Editor-in-Chief [Hal97]. Editorial [Hal99a, Hal99b, Hal00, Rag03, Sal71a, Sal72, Via10a, Via13a]. editors [Jou03]. editors-in-chief [Jou03]. Edmonds [Gab76, Zad72].

Edmonds-Karp [Zad72]. Effect [Att57, EW75, Pri76, SMI79, Svo75, Yan79].

Effective [Bli71, CGH83, Har86, YS76, YSS78]. Effectiveness [YL77, ORSS12]. Efficiency [MP71, RKN75].

Efficient [ADF16, ABNC96, ADO91, BRK74, BCS92, BBH87, BF01, BKK14, CH14, CG86, CPT94, CG70b, DHB92, ES76, Eij74, FK99, FHS13, FPS98, FLS16, FLS18, Gab76, GGS89, GP83, GN08, HW90, HSTV14, HT74, ILG87, Joh77, KU88, KOY90, Kea98, KMP12, LW93, PGE75, PS80, Rab89, Ric73b, Ric73a, Rcc94, Sta64, Sto73, UV88, Up84, WH73, BGM99, CBDF99, DW99, Hoc01, LOS02, NR04, SCD02].

Efficiently [ABL17, Dea89, Got54]. Effort [GM79, She59b]. Egd [GW90].

Eigenvalue [BJ66, BLR10, Joh61]. Eigenvalues [BJ66, BLR10, Joh61]. Eigenvectors [BS74, Cor63, CS84, EV57, EV62a, EV62b, EV62b, LA64, von56].

Eigenvectors [BS74, Cor63, CS84, EV57, EV62a, EV62b, EV62b, LA64, von56]. Electing [FL87].

Election [KPP15]. elections [CSL07, HHRR97]. Electrical [WL57].

Electron [LWS55]. Electronic [Baz57, EV57, FRI56, Leb56, MG59, PPV60, Wad54, Wad56, Wis54].

Electrostatic [Pel98]. element [AS04, Bul06]. Elementary [Bre76, Wan74b, WIL59b]. Elements [Pul55, Ric73b, Ric73a, She65a, She65b, RS00]. Eliminating [Ram88].

Elimination [BK86, BliW63, FLSY74, Lov68, Lov69b, Lov69a, Mar76, Ple74, Ske79, BR96, Bas99]. Elliott [YL57]. Elliptic [CRY67, CRY71, DH59, JM60, LW63a, LW63b, GK99]. Elusive [SAG94].

Embeddability [KV15]. Embedded [CM87, SW82].

Embedded-Complete [CM87]. Embedding [CFG17, DEL80, FL18, KSW09]. Embeddings
[FHS13, HMR83, ARV09, CGT10, Ind06, OR07]. Empirical
[GSK59, LBNS09, O’C65, PM71]. Emulations [KLM+97, BCH+96].
Encoding [Heh77, KR92, Ros79b, Sch63, ABF+02]. Encryption
[BV18, GVW15, Unr15]. End [BGP84, CH14]. End-Component [CH14].
End-to-End [BGP84]. Energy [Kis91, BKP07]. engine
[BYG08]. Engineering [Baz57, BFM+19, WJR57]. English
[BF61, KS63, Koc69]. English-Like [Koc69]. Enough [PKW18]. ensures
[BN05]. Entrance [Bab75]. Entries [HS75, JSV04]. entropies [SU05].
Entropy [Gre73, VV17, CKOR14, JRS09]. Entry [Mac57, RS66, RS67].
Enumerable [Cul79, ERR81, ER80b]. Enumerate [TSOA80].
Enumerating [Kle60, SF80]. Enumeration [BB85, Hay76, Mar76].
Enumerations [You69]. Environment
[AGOW66, ABND+90, CE72, HM90, LL73, DPK98, Kle99]. Environments
[CHJS15, GR17, PM06]. Epistemic [EFW10]. Equal [Gli65]. Equality
[CS71, DH86, ER80b, Gin67, RWM94, Rei80b, Set78, Sla72b, Wan93].
Equality-Based [DH86]. Equality-Oriented [Wan93]. Equation
[BJ66, BH65, CM60, Con57, Cra54, Cra55, Cra57, Cry67, Don59, Ese60, Fis58, Her74, Hoc65, Laa58a, MP59, Mor62, Par61, Sig67, Sim65, Sim67, Sta56, SW68, You56, Hal07]. Equational
[BD94, BT95, GNRG95, PS81b, Ver95]. Equations
[Abo71, AVB60, And55b, Boj84, BGP17, Bra67, BKT67, Bui79, BB94, But65, CD87a, CBHH61, Cas75, Cas76, CG67, Cha62, CR65, Cry71, DLM73, DG71, Fis56, FK15, Fra58b, FR63, Fri73, Fro61, Gat83, Gau59, Gau60, Gla65, GLH57, Gra55b, GI82, GLW70, Ham59e, Has70, Hen70, HW67, IOT19, Jez16, JM60, Kac79, KK70, Kar68, Kro67, Kro73, Lan59, Leh61, Lin69, LKK83, McC73, Mey85, MR59, MR60, MR62, Mo067, MO68, Mou65a, Osb61, Phi62, Pic64a, Rah69, Rah70, RMK79, Ros67b, SK77, Sto73, Tho57, TW79, Two63, Usm66, Was81, Zaf70, Zel68, Zoh74, EY09, KMP00, Pla04].
Equidistributed [Hab70]. Equilibration [Bun71]. Equilibria
[Bab16, ILM17, KL95, CDT09, PR08]. equilibrium
[DSVP08, VY11, Kob74a]. Equipment [Jac54, Wis54a]. Equiprobable
[PGE75]. Equivalence [AV88, BBK93, Bar65, BHR84a, CH84, DLT94, ER80a, GW90, GRI68, GI81, HR77, IM83, IL83, Klu82, Lie82, Mar71, Oya87, RV80, SDPF81, SDPF87, SMK18, Tho07, Ukk82, Lib01, MS04, PS00]. Equivalences [SY80, WW18, CNS07]. Equivalent [Hsu75, MT69, You77]. ERA [Bau56]. ERA-1103 [Bau56]. Ergodic [OD67]. ERMETH [Rut55]. Errata [Bea73a, Bea56, Bu77, CCH76a, Cof69b, GM75, GB69b, GB70, KS77, Lov69b, Set75]. Erratum
[AACHE18, HR63a, Hec74, LW63a, SW01, ZY03]. Error
[And65a, Att57, BR71, BCLM56, Car58, Cas76, Cau58, CG67, CC67, Chw81, Dav90, Don59, DW64, GR60, Hou58b, KL70, Laa58b, Sar83, Sni70, Ste83, Tsa74, Van85, Wle60, Wil61, Win64, Zaf70, Cha00a, CS99, MR10a, Pel98]. Errors [CM96, EV57, Er60, Gra55b, KL73, LPR13, MB56, BKL99, Reg09]. Essays [Bur70]. Establishing [AB70, Ked79]. Estimate [BR71, Rob71].
Estimates [BFGL79, Cas76, FG76, Har66, Zaf70, CS99]. Estimating [FM79, GFL87, SRP11, VV17, AT11]. Estimation [Gau64, Igl76, Mos58, SW68, DLT07]. Estimators [VV17]. Euclid [Bro71, BT71]. Euclidean [Aro98, CRS99, ES15, HPR15, Mon68, YUKY17]. Evaluating [Ata94, CS83, Wag97, CL11]. Evaluation [Ash64, BN79, Boo65, Bre74, Bre76, Fro61, HK77, Isr57, Joh61, Kro64, Kun76, MB56, ME67, MP76, NT93b, Rei86, Sag91, SL68, ST74, Tit55, Tra69, Was81, Win75, dWF58, BP11, CW96, FFG02, GK96, GKPS05, KZ98]. Evaluator [Mie57]. Even [JM77, RMK79]. Event [FM79, Nic93, ÓWA91, Sur87]. Events [BZ14, Brz67, BC69, CEW58, Mey69, Muk68, PP65, Sal66]. Every [Pet15]. Everywhere [GB74]. Evidence [PM71]. evolution [ALS09, BP11, CW96, FFG02, GK96, GKPS05, KZ98]. Evolvability [Val09]. Evolving [AGPT16]. Exact [CG86, FLPS16, FGLS19, HHH97, HS75, HS76, JS82, KS75, McC73, Van78, FGK09]. Examination [Mou65b]. Example [Bau85, Dal73, Dil89, McK78]. Examples [CS88a, GJ78, PV88, Sum77, Urq87]. excellence [Rag03]. Exchange [ADLM14, DR85, HI59, AL08, APR13, FKK11, GN08, KOY09]. Excluded [FLS18, Gro12]. Exclusion [BJL+82, Lam86a, Lam86b, Sta82]. Exclusive [KS83]. Exclusiveness [Svo75]. Execution [AC81, BL90, Lera93, Rem81, Str83]. Execution/Sleep [Leu93]. Exercising [Ric73b, Ric73a]. Exhibit [Gui78]. Existence [BD87, Bor72b, Bor72a, KL95, Wan74b, CKL07, PKT90]. Existential [EGG00, GKS04, Ven87]. Expander [ARV09, Gab06]. expanders [GUV09]. Expanding [MS16a]. Expansion [AM82, HS56, Kah95, WH73, BDHS12]. Expansions [KT90, MM84, McK87, MM86]. expectation [HP07]. Expected [Bra87, BDF81, CC76a, CC76b, CR95, Gon81, KKO18, KS16, MMR15, CFM10, GMP00]. Experience [SK73]. Experiment [Gin58, Mar61]. Experimental [MF63, PM71]. Experiments [AF58, BF67, BB64, Coh55, Hii61, KSU+79, Oli67, PT57, Rab66, Sim63, SB68, SD69, You56]. expert [CBFH97, PM06]. Experts [KSU19]. explanations [EM07]. Explicit [Cra55, FHS13, SSZ98, CHL96]. Exploration [DHK19]. Exponent [AB17]. Exponential [BFGY19, Blu59, BKK84, BDF81, BCL19, Cho80, Dil89, FMP15, GKR16, GGGM88, Jaz81, MW66, LNT97, Luk57, Mac55, RS94b, Rot17, SD38, Van78, AT07, OPSPK19, PPSZ05]. exponential-time [PPSZ05]. Exponentiating [FT88]. Exposing [BW88]. expressibility [BDG13, KMP00]. Expression [AJ76, BS72, Mye92, GK96]. Expressions [AJU77, AGG62, Bea72, Be7a, Be7b, Bre74, Bre70, Brz64, CS83, FU82, Gin67, Hen79, Klu83, Kun76, Mar71, MP76, OF61, PS80, RR64, SY80, SU70, Set78, Wag97, Win75, WH73, ACM02, BCG07, BYG96]. Expressive [CKP17, BDL98, GK04, tCL09]. Expressiveness [FLO83, NV02, CSV09]. Extended [CH91b, Cur63a, HN07]. Extensible [Ros74, Ros75, RS77]. extensions [SS06a]. Extension [Aho68, And66, Kei56, LW75, MC87, Rot17, Shr70].
finite-horizon [MGLA00]. Finite-Source [Kam82]. Finite-State [BZ83, Liu69, OG96]. Finite-Valued [TZ16]. Finitely [Hul84]. finiteness [Kif98]. First [AM90, BKMZ15, CBHH61, Che17, DP85, DH59, Gab16, GKS17, HN84, Her74, LW63a, LW63b, Man69, MG93, Phi62, Pic64b, Pic64a, PZ19, Rei80b, SK77, SW68, Two63, WiI84, van72, BG98, BLS03, BKL+06, DKT13, FG01]. First-Order [AM90, BKMZ15, Che17, Gab16, GKS17, HN84, Man69, PZ19, Rei80b, BG98, BLS03, BKL+06, DKT13, FG01]. Fishspear [FP94]. Fitting [AVV97, AM82, SN85]. Fliess [Kor89]. Flipping [BHT18, Asp98]. Floating [AM59, CO84, JMMW79, KL73, Mol67, Tsa74, Wad60]. Floating-Point [JMMW79, KL73, Tsa74, Wad60]. Flocking [Cha14]. Flow [BDF81, CT81, Ehr58, Fai67, GT88a, GT88b, GW76, HU74, Ita78, KU76, KR77, KS75, KL95, Kou77, Kri64, Laz84, MS11, Mil79, Rev77, Röö84, Ros79a, Sco58, SM90, SN85, Str83, BL04a, BK09, CK09, GR98, KP03, LR99]. Flow-cut [CK09]. Flow-Shop [CT81, KS75]. Flowchart [Hum82a]. Flowcharts [BB85, Yel75]. Flowgraphs [Bak77, Mil79]. Flows [Joh87, Zad72, ARV09, BLR10, CKL+07, KRV09, MMHW97]. Flowshop [PK80]. Floyd [BÉ91]. Floyd-Hoare [BÉ91]. Fluid [Har57]. Flutter [Fra85b]. Folk [Haj83]. fools [Bra10]. Footnote [Gol60]. Forbidden [Lev13]. forcing [JS08]. Ford [FL18, Man79a]. Ford-Johnson [Man79a]. Forest [BHM11]. Forests [SV19]. Foreword [ANO15, KVO4, TAR16a, TAR16b, TAR16c, TAR16d, TAR17a, TAR17b, TAR17c, TAR17d, TAR17g, TAR17h, TAR17e, TAR18a, TAR18b, TAR18c, TAR18d, TAR19, VIA11b, VIA11d, VIA12c, VIA12d, VIA13b, VIA13d, VIA14a, VIA14c, VIA14d, VIA15b, VIA15c, VIA15a, WK15, VIA10b, VIA11c, VIA12a, VIA12b, VIA13c, VIA13f, VIA13e, VIA14b]. Forget [NR94]. Forgetting [FK95]. Fork [BMT89, DLT94]. Fork-Join [BMT89, DLT94]. Form [BKK54, CHT77, CM83, CM96, CUR59a, CUR59b, DHM65, FJ60, GR74, GRE65, MSW93, MCK87, MIN70, PRA60, SBA82, WAT73, DL98, BP03b, Dar01, NOC79]. Formal [APT83, BOG02, BLU66, BK78, CHA74, CS68, CUD70, FKRV15, HR77, LW57, MCL84, MNO88, PD98, QH68, ROS69, YU75, ZEI72, HW08]. Formalism [SFR68]. Formalisms [Fis65b]. Formalization [LON73, MP70a]. Formally [ABK16, CHA75]. Format [AB70, HY84, LOV69a, LR81, REI71]. Formation [YUKY17]. Formed [BUR76]. Forms [Cav70, GL76, JA’80, ROS67b, WIL59b, AL05]. Formula
[CL62]. **Formulae** [KV94a]. **Formulas** [AHK93, BE97, CO17, Cra55, Cra57, Dem92, DH59, Di 69b, Di 73, HP66, KLV94, LW63b, Ral59, Raz13, Sho77, Sur83, Tra69, ANP07, Ato94, Raz09, LW63a]. **Formulation** [MTZ60].

**Fortran-Compiled** [GHG60]. **found** [Sho03]. **Foundation** [AAJS17, HW08, JSMM03]. **Foundations** [CM78, KLV95, MS96]. **Founded** [vRS91]. **Four** [But67, GKK14, Mye92, Kol04]. **Fourier** [BT76, CM67, Cru76, DA68, Hoc65, KLV95, LM93, Mor73, Pap79a, Pea68, Pea69b, Roc94].

**Fourth** [Con57, Cra54, Cra57, Ano79]. **FP** [HWW90]. **Fractions** [Mac55, MB56, Mae60, Spi61]. **Fragment** [SDPF81, SDPF87, Ven87, MS04, Ott12]. **fragments** [tCL09]. **Frame** [KLW95]. **Frame-Based** [KLW95]. **Framework** [BG15, BS89, HHP93, HS19]. **Frameworks** [HSTV14].

**Fredholm** [Fis58, Has70, Her74, KK70, SK77, SW68, Tw63]. **Free** [Aho68, ACHS16, ALS94, BBK93, Ben80, Bli72, But78, CRGM78, Cry70, DG84, Ell72, FOS14, FW74, Fre82b, GS63, Gu66a, Gu66b, GL76, GR74, Gor63, GH72, Gre65, Gre66, Gre69, Gri68, Har67, Hay76, Hu66, Hu57, IAWK85, KT69, Kor89, LR78, LW93, LTV96, Man92, MSW83, Mey69, MMR15, Nau89, Par66, Pav72, Ros68, Ros70a, Ros67b, Sta82, Sud75, Sud78, AGHK09, BGM*98, DFT05, DR00, IKL*19, Jay97, JCT98, JSMM03, Lee02, SS06a]. **Freedom** [Kam80].

**Freezing** [Mol18]. **Frequency** [FJ60]. **Frequent** [KMP*12]. **Freshman** [Sla63]. **Frontier** [Che17, KZTH05, GKS04]. **Full** [AF77, Bra77, EPT18, Sci82]. **Full-Text** [AF77]. **Fully** [DST94, GIS99, DI05, HK99, HLT01]. **fully-dynamic** [HdLT01]. **Function** [Ash64, BE62, CF59, FJ60, Gia64, GF60, Gre73, HP72a, HA56, LP15, Luk57, McK78, Mie57, MP65, MP66a, Nat67, Nau83, Nau89, Net59, Phu76, Pra60, She57a, She57b, Sho79, Weg69, dV71, FCB08, GJ12]. **Function-Free** [Nau89]. **Functional** [AMP73, ADS83, BDFS84, BV18, Cur59a, Cur59b, Fr63b, GS62, Hon82, Lom61, MSY81, MP70a, Via87, KT99, RV07].

**Functional-Dependency** [GS62]. **Functions** [AM85, Alt88, ABB*17, Bas58, Bov68, BAG14, Ben80, Ber69, BHT18, Blu67, Bol79, BM75, Bre76, Bsh93, BT96, CK15, CL95, Chu65, CC67, CaKMTM19, CvH65, Cu59, Dub66, DNR30, EGG92a, EGG92b, Fai85, Fra58a, Fra65, GKR16, GB74, GGM86, GKM86, Har63a, Har75, Hay76, Hl87, Hir58, Klu61, Klu82, KSG68, KSB81, KT78, Lin69, Mac55, Mar58, MCK87, MV15, Pet62, PT67, Ral63, Ran58, RS83, Rei87, Rob74, Rus68, San96, She57a, SS63, Sti81, Sto64b, Svo75, TM66, TI70, Ull72, Wan74b, Wec66, Weg88, dWF58, ADN*99, BBB*00, BDG*13, CL11, IFF01, NR04, YCW99, ZW03]. **Fundamental** [Kel73a]. **Further** [Har63b, Pag74]. **Fuzzy** [AJM80, Lee72].

**Gage** [Per54]. **Gallai** [SS13]. **Game** [AIK84, Ber63, Con91, Lai13, LT82, Nau83, Rei80a, San69, SD69, Tar83, KZ98, Vaz12]. **Games** [ABS15, AHC19, BGG17, CH14, CV17, EY15, HMZ13, HM13, KV15, ARV08, FGY00, GS07, PR08]. **Gamma** [GF60]. **Gap** [Con72, KV15, Din07]. **Gaps**
Bor72b, Bor72a, CK09. Gates [Ben80, But78, Pip89, Ric73b]. Gaussian [Mar76, Ske79]. Gaver [BCPW74]. Gene [ZZ17, ALS09]. General [BJ66, BW57a, Bre74, BM62, Cud70, DPW18a, DST92a, DST92b, DG57, GT91, GP83, Kar68, Lie59, Por66, RC69, SB82, Sur87, Tit55, Wil77, vRS91, ACR98, BU01, BGM+98, CW96, DR03, MT10, CI74a].

General-Purpose [BW57a, GP83]. Generalization [MMW07, Niv10]. Generalized [AK70, AS54, Bab75, Bai66, BIW63, BD87, BB61, CH86, CH88, CL62, Cur61, Cur63a, DLN73, DP85, Dye68, Erd66, GMS09, GS64, GJ82, Gj68, HZ80, LP73, NS82, Oli67, Pic64b, Py64, RP89, Yeh68, Yoe65, MSVV07, Noe79, SS06c, ZW03].

Generals [Bra87, LSP82, Lam83]. Generated [BR71, Hou58b]. Generating [BBK93, CLW95, Ehr73, HHHN14, Hob93, LY61, LR77, Mow67, Mul59, MC72, Zer85, BP03a].

Generation [AJ76, AJU77, AM78b, BL75, BS76, Cha72, CU59, Cov60, Den61, Fis65a, Gib69, GLW70, MB56, Mos54, Nat67, Ne60, PGE75, Pro80, RV78, SU70, Spr92, Van67, Win82, YCW99, BF01, DFSL14, Fus90].

Generative [Gor63]. Generator [GSK59, Gre61, Kro64, Rot60, WS67, SU05]. Generators [ADH63, CH86, CH88, CM67, Ell72, Gil63, HD64, MM65, RT69, RW88, Smi71a, TRA71, WS67, Ind06, Tre01].

Genus [FGM88, HI92, DFHT05]. Geometric [ABC17, DS91, Hod70, Shi10, Aro98, ARV09, BFJ+03, BGM+98, CS11, Mul11, OR02, RV07].

Gershgorin [Sm170]. Getting [Lam03]. GFSR [Tez87]. Given [BM92, Fit60, Kal88, RG67]. Givens [Can58, CD94, Joh61].

Global [BNR13, BN13, GW76, KU76, Kou77, Wil87, AAP96, DR00, vD95, vD97].

Globally [Was80]. go [Ram88, LS80]. Goal [Ne60, GJS12]. goal-oriented [GJS12].

Goals [LR81, Gra03]. Goes [HZ92]. Going [PZ19]. Golden [Got03].

Good [Cra79, Raz19, Tar75, KVV04]. Gossip [Hae15, Hae16, GGGK13, KKD04].

GPS [Ern69]. Gradient [KH64, Py164].

Graeffe [Bar60, Bau58a, Gra63, Wee60]. Grained [CD94, BGM99].

Grammar [CR86a, GG74, GL76, HS78a, HST87, Hun82b, Lee02].

Grammars [ABL80, Aho68, Bea82, CS68, Cud70, Dil89, EF89, GH72, Gre65, Hib74, Hun84, Jaz81, KT69, MSW83, MP70, McN67, Mic76, MLS76, Pav72, Ros67b, Ros69, San72, Boy05, EY09, NV02, RS99].

Grammatical [HS71, KS63, MSW82]. grand [Fei03, Hooa03]. Graph [AGPT16, ACP93, AK84, AM70, ADS83, BE70, BDHS12, BLR14, BE97, Blu94, Che17, CDMP92, CG70b, CFG17, DM87, DHK19, Fre91, FGM88, GGS91, GT91, GJ76a, GMM81, GS93, HMR83, Hsu75, Ja84, JRS14, KR90, KV94b, KNY19, LaP93, Lel74, LW93, LB79, MB85, Mar76, ME67, MB83, MHG+88, Mol18, MT69, Pav72, PS78, Pfa72, Sha70b, Sup83, TSOA80, Wan74a, Wei72, Wig83, ARV09, BK09, CFM10, EGIN97, FGY00, HMR+10, HK99, KMS98, Koc98, SGP11, SW01].

Graph-Like [Che17].

Graph-Matching [GT91]. Graph-Representable [Sha70b].

Graph-Theoretic [GS93, FGY00]. Graphical [DG71, FN93, Moi19].
Graphics [CLRS86]. Graphs [ADK17, APY91, Bak94, BHM11, Ber73, BJM79, BP15, CM93, CDRS93, CNP85, DK65, EBA72, EPL72, FOS14, GSH89, Gab76, GHL78, Gib69, GKS17, GSV84, HI92, HU74, HKN18, Hsu87, Hsu88, IRT78, JMMW79, Kah95, KT17, Ker71, Kow75, LMV16, MTTV97, MR87, Pfa75, PV76, Ram66, Ros72, SD76, SL71, Sl76, Str83, TNS82, Wag76, WLS85, Wel66, ACKM09, ATSWZ00, BKS10, CGP02, DFHT05, DKT13, DGP07, Gab06, GKS04, Gro12, HW04, ACKM09, ATSWZ00, BKS10, CGP02, DFHT05, DKT13, DGP07, Gab06, GKS04, Gro12, HW04, KK13, SPK13].

great [Bro03]. Greatest [Bro71, Kal88, MST91]. Greed [NV95]. Greedy [BW94, CK76, Fai85, JMM03, KR92, AAF01, HRM02].

Grid [CC16, FLS18]. Grid-Minor [CC16]. grids [FV02].

Gr¨obner [Baa93].


Guaranteed [KS75]. Guaranteeing [KPW18]. Guarded [BTS15, Ott12]. Guided [CO17, CEGJ03].

half [Bro03]. half-century-old [Bro03]. Halfspaces [DDFS14, Vem10]. Halting [AF67, BM84, CF12, Ell72, Ul69]. Hamilton [EHRS84, Rub74].

Hamiltonian [GHS75]. Hamiltonicity [CKN18]. Handling [BO56, GM70, GPV89, Lom61, Wal61]. Happened [BZ14].

Happened-before [BZ14]. Hard [BHR84a, CS88a, ESY85, GSV84, JMM77, LS80, LL73, Mey88, URG87, CT06, CGH05, CSL07, MR08, HL13].

Hard-Core [ESY85]. Hard-Real-Time [LL73]. Harder [HS90]. Hardness [Kho65, LY94, MS11, AZ06, AZ08, ALM98, CN06, CK09, FGL96, GMS09, LBNS09]. Hardware [Bry91, BRSU97]. harmonic [BG90].

Hash [Gon81, Mar71, Riv78, AD69, SSS96a]. Hashing [Bo79, FSSS92, GL88a, Gui78, KUS88, Lar83, LRY80, PT12, RS77, ULI72, Vit83, Yao85]. haven’t [Sho03]. Having [FZ77, HC72, Klu82]. Hazard [Huf57, IKL39].

Hazard-Free [Huf57, IKL39]. Hazards [YR64]. Head [CCF84, GM73, GM75, One75]. Headquarters [Man03]. Heads [CCF84, JSV97, YR78]. heap [Cha00a]. Heaps [FT87, Fre99]. Heat [Dou59, Ehr58, Sig78]. Heavy [Gav71, Mit72]. Height [Dev86, Dm40, Rec03]. Help [EC64, La93, Rie87, BRSU97]. helps [Voc03].

Henschen [Bri90]. Henschen-Naqvi [Bri90]. Herbrand [Lov72]. Hermite [GL64]. Hermitian [gs58]. Heuristic [BM85, GK88, IK77, MB85, Sna63, Sla63, SB68, dCS77, de 83, ZS99].

Heuristics [BM83, KL92, MP10]. Hidden [FSV06]. Hierarchical [CaKMTM19, Len89, Mit74, SK80]. Hierarchies [BY73, Dea89, Di 69a, ES86, LED76, MSW82, PZ19, RC70, TS81, BG10, Jay97]. Hierarchy [AH92b, BBS86, DV14, Gre69, HRS17, Ko90]. High [BC54, Bau58b, Den58, Fra61, Har66, KSY14, KMRZS17, Kro66, Leb56, MM75, Ral59, WYCF14, Yer66, AZ05, LW08, PSSZ13]. high-level [LW08].

High-Rate [KMRZS17, KSY14]. High-Scanning-Rate [Bau58b].
Increased [CK65, Klu83]. Increasing [HH57]. Increasingly [CKP17].
Incremental [MS89]. Incrementality [GM80]. Independence
[BR91, CH91a, FE76, HU66, Ros68, BN05, BKS+10, Bra10].
Independence-Reducible [CH91a]. Independent
[AC81, AHPW19, BF67, Blu67, Cha16, Dem92, Fra65, Gin61a, Hsu88, IK77,
KW85, Sag91, Sal76, SC80]. Index
[Ano58b, Ano95a, Ano97, Ano98a, Ano98c, CS77, Fra61, Fra76,
GM89, HK86, HMKW66, IOT19, You63, BYG08]. Index-Digit [Fra76].
Indexability [Yi12, HM+02]. Indexed [Aho68]. Indexes [AG86].
Indexing [BK77b, CM78, FM05, MK60, Mar61, O'C64, SL68, YS76, YSS78,
FM609, Shi10]. Indistinguishability [BV18]. Induced [ADK17].
Induction [RBCC19, Pit06]. Inductive [Kra62, Pit89, Weg77]. inefficiency
[RS09b]. Inequalities [Klu88, LGT14, Sho81]. INF [Sho77]. Inference
[Ang82, BD94, Cha69b, CKP17, Gre69, Har86].
Infinite-duration [AHC19]. Infinite-State [CKP17]. Infinitesimal [Sur87].
Influence [Low68]. Information
[Abe80, AGPV90, Bak62, Ben70, BO56, BT57, Cha74, Cha75, Coo64, Dal73,
DR85, FKRV15, Fui67, FHS13, GKR16, GLu63, GYY80, GM61, GM70,
GPV99, Heh77, IL84, JP84, Lip81, MK60, Mor68a, PM71, Rab89, RZ19,
Sal63, Sal71a, Sin86, Sti61, Was80, Wer79, Win65b, YLC76, YLS82. ACN08,
AL05, BLPS10, CKGS98, CM04, GS07, GK04, Gra03, Lev13, MSS01].
Information-technology [Gra03]. Information-Theoretic [Cha74, AL05].
Informational [GV61]. Informational-Logical [GV61]. Inherent
[GU66b, HU66, Mau69]. Initial [AGS17, GTWW77, KK70, Man75, Usm66].
Initial-Value [KK70]. Initializing [CH86, CH88]. Input
[Ba65, BF67, Cha70, CW17, Cof69a, Cof69b, Fa60, Gil66b, Gin61a, Hof84, HR63b,
HR63a, MS59, Oeh63, RW63, Sch64, SM81, Win64, LMNM03, MRR03, DK59].
Input-Error-Limiting [Win64]. Input-Independent [BF67, Gin61a].
Input-Output [Fer60, Gil66b, HR63b, HR63a, MS59, DK59]. input-queued
[LMNM03]. Input/Output [Cof69a, Cof69b]. inputs [ABF+02]. Inquiries
[Mar61]. Instability [Kos67, Mill75]. Instance
[ABC17, OKSW94, de 86]. Instance-Optimal [ABC17]. instances [GS10]. Instant
[SM81]. Institutions [GB92]. Instruction [CS83]. Instructions
[Ano68, Mau66, MO56]. Insurance [Wis54]. Integer
[BL19, BNN694b, Cha89, EC68, Fei84, Hei71, Kam89, Kan80, Kan83, LR77,
MST91, MTZ60, Pap81, Phu76, SK73, Srl65, TS74, SS06b, Tho99]. Integral
[And65b, Fis58, Gla56, Hans65, Her74, KK70, MM84, Plu62, SK77, SW68,
Tho57, Tra69, Two63]. Integralty [KV15]. Integrals
[DH59, Gau61b, Har64, Kac79, LW63a, LW63b, dWF58]. Integrated
[Bau56, FU82]. Integrating [Rah70]. Integration
[And66, Blu79, But65, Car58, Cas75, Cas76, Ema63, Fli60, HH57, HP66,
Kau71, Kro73, Lot56, Mor62, Pic64a, Rah69, RTW94, SL963, Wil59a].
intelligence [Fei03]. Interaction [DS92a, Yer65, JS96]. Interactive
[BKN14, BEGH17, GKR15, LFKN92, Bro97]. Interarrival [KW66].
Interconnection [GoI82, HP90, JT75]. Interdeparture [Tob82]. Interface
[Ber06]. Interleaved [BC73, Hof84]. Internal
[Flo61a, GL88a, HI59, IL79, Mac66, Goe61]. Interpolant [Sha67b].
Interpolation [Aki70, GL64, KP71, MT93, Slaj70, TI70, Fer64].
Interpolator [Mos55]. interpretation [CCM12]. interpretations [GRS00].
interpreted [BL00]. Interprocess [Lam86a]. Interrupting [HY75].
Intersecting [CE92]. Intersection [BK86, BK87, CD87b, FCB08, ZS99].
Intersections [Com68, Vem10]. Interval
[CRR18, Gel79, GL70, HJV01, LB79, NB95, AKN+08, KJJ03]. Interval-Linearizability [CRR18]. Intervals [HS91]. Intractability
[MS92]. intractable [Lib01]. Intrinsic [Rou15]. Intrinsically [Dil89, Jaz81].
Introduced [CM96]. Introduction
[LV09, MV05, Sal71b, SV06, VV09, Via11a]. Invariance [Pip89, HKM12].
Invariant [Doy62]. Invariants [BNR13, BN13, KB1+17]. Inventory [CG57].
Inverse [Att57, Bas58, BIW63, DLN73, DHM65, DH56, Erd66, MP70b,
Pyl64, Tit55, Cha00b]. Inverse-Ackermann [Cha00b]. Inverses
[HC72, FN10]. Inversion [Cru76, DA68, HC72, Mar58, NBC72, Pea67,
Pea69a, Ro94, Two63, Wat73, Wee66, Wil61, Zie68, Zoh69, von62]. Inverted
[BBH+87]. Invertible [Har63a]. Inverting [CLW95, FK99]. Investigation
[SM64, Sot65, TW61]. Invited
[Ano15, For16, Tar16a, Tar16b, Tari6d, Tar17a, Tar17b, Tar17f,
Tar17c, Tar17d, Tar17g, Tar17h, Tar17e, Tar18a, Tar18b, Tar18c, Tar18d,
Tar19, Via10b, Via11b, Via11c, Via11d, Via12c, Via12d, Via12e, Via12f,
Via12g, Via12h, Via13c, Via13d, Via13f, Via13e, Via13g, Via14c, Via14d,
Via14f, Via15b, Via15c, Via15d, Via15e, Via15f, Via15g, Via15h, WA15, Via11a]. Involving
[BL66, Ehr59, Har57, Rac82, dWF58]. IP [Adl05, BFM+19, Sha92, She92].
Irreducibility [Mus78]. Irreducible [HR63b, HR63a, Nat67]. Irredundant
[BRK74]. Isolation [CG18]. Isomorphism [Ber73, BJM79, CG70b, Fle62,
GHL+87, KMR95, LB79, SD76, Ul76, HMR+10]. itemsets [KMP+12].
Iterated [Sch74]. Iteration [Bau58a, BE91, CV59, Gau95, Gau60, HZM13,
KY83, KT74, Man67b, TW79, Was80]. Iterations [Hou56b, Was81].
Iterative [And65b, Bau78, BRT71, BGRS13, CS85, Fis65a, HST76, KU76,
Mol67, Par61, She59a, Tor64, Wai67, von56].

J [Nag61]. J. [Bui77]. JACM [Cof03, Fis03, Got03, Hal97, Hal03, Lei03,
Mil03, Ros03, Sot69, Jou03, Via10a, Via11a, Via13a]. Jacobi
[Cor63, GMvN59, Hai62, PT57]. Job [FM80, Leu93, MS11, Rus82]. Jobs
[Bru76, CAA74, McK87]. Johnson [KN14, Man79a]. Join
[BMT89, DL88a, MSY81, NPRR18, SC82]. Joins [BC81, Mor97, Tay93].
[CST+18]. Justification [Apt83].


Kutta [But67, But79, BL66, Car58, Cas75, Cas76, CR56, Fro61, GR60, Gru70].

labeled [FLMM09]. Labeling [ADK17, FK16, Sam81, ST72, KT02]. Labelling [DST92a, DST92b]. Lagrangian [JV01]. Laguerre [Wee66]. LALR [SSSU83]. Lambda [OR00]. Lambda-calculus [OR00]. Lamport [BZ14]. Language [Bro58, CK79, Cla79, FGP64, Flo61b, GH60, Gra62, Har67, Man69, McL65, Nev70, Rem81, VK76, Wir68a, Wir68b, AK98, Cap02, DR90, Lai13].

Languages [Ang82, BBK93, Boo78, BM62, CB72, CRG67, DKW15, ER64b, ER80b, ES68b, Fai85, Gil66a, GR62, GR63a, GS63, GR63b, GS65, GU66a, GU66b, GH68, GMW91, Gor63, Gre66, Gre69, HS71, HH74, HU66, HR77, Hun82a, KL95, Klu82, KB07, Kor89, KY83, LW93, Lyn77, MNO88, MH82, NB96, Par66, Ros79a, Ros79b, Ros80a, Ros80b, Ros70a, Ros69, San65, Sud75, Sud78, VVAG97, BP03a, BLW98, BLS03, BGM99, FMW10, GK04, KMP00, NV02, Van07, Ano79, Gra77]. Lanky [ES15]. Laplace [Bas58, CM60, Cru76, DA68, L201, MP59, Tit55, Wee66]. Laplacian [CLTZ18]. Large [CLR16, Dea89, ES76, Har57, Has70, Joh61, Kau71, KT90, Lie59, Pea69b, Pol64, SU82, Sch66, TW84, CM04, RV07]. Large-Scale [Kau71]. Largest [Gau61a]. Last [MB83]. Latency [Knu61]. Latent [Bak62, Win65].


left-linear [TK95]. Legality [BB70]. Lemma [AI66, BM82, GST16, GJL19, Mo19, AKS12, MT10, HSS11]. Lemmas [Pet76]. Length [BGP17, Cer58, Cha66a, Cha69a, Gin58, Gl65, Gon81, KW89, LH90, LW57,
NW73, OR90, Pag74, WW73, dL89, GS06, Luc09, Yek08. **Length-Limited** [LH90]. **Lengths** [MM84, Wol65, Yen72, LMNM03]. **Lenses** [ANP+04]. **Less** [KT17]. **Letter** [AM80, GG61, Goe61, Le61, Liv60, Nag61, WSD59]. **Letters** [Er60, PGE75]. **Level** [HLS77, HR63b, HR63a, ILP97, LW08]. **Level-Clocked** [ILP97]. **Levels** [Zar59]. **Lewis** [HHR97]. **Lexicographic** [AG86]. **Lie** [BK72]. **Life** [Wis54]. **Like** [Che17, CC76a, CC76b, GR63b, Koc69, BCH+96]. **likelihood** [CT06]. **Limit** [Mon70]. **Limitations** [Cha74, HMR+10, KV94a, PV88, Sch64, SRM97]. **Limited** [AACHE15, AACHE18, Cof68, GL88a, Hib74, LH90, PK80, RS66, RS67]. **Limited-Entry** [RS66, RS67]. **Limited-Use** [AACHE15, AACHE18]. **Limiting** [Sch74, Win64]. **Limits** [NS06a]. **Lin** [Man79b]. **Lindenstrauss** [KN14]. **Line** [BB95, BLS92, CE92, ES81, GS78a, Gri73, HL76, IM83, JL83, JS82, Kal88, LL85, Loh74, Mae77, Man75, MS92, Mor68b, AAF+97, CDRS93, DGS01, Par61]. **Linear** [Abd71, AM94, ADG99, AB70, ADH15, ADG15, ABL17, BAG14, BJM79, BLTY94, CD87a, CS71, CG67, Cha95, Coh64, Col58, CC95, Cra55, Cry67, DP14, EC08, EH86, Efi85, FZ77, Fra60, Gab82, GS78a, Gal82, Gau59, Gau60, Gib69, Gil65, GLH57, GL88b, GW76, Gre66, GR79, GS90, GLW70, HPR15, Har76, HKN18, HS90, HK77, Jon62, Kam87, KLM19, KKT95, KSB06, KT19, Kor68, KSS10, LS11, LL78, Lin69, LS77, LKK83, Lov72, LB79, Man75, McC73, MW78, Meg84, MY80, Mey85, Mey84, Mor73, Mor75, Mou65a, NB96, Obs61, Pag76, Pav72, PK87, Plc74, RW92, RV87, Rei71, RG67, RPE81, RMK79, Rot70, SK78, San96, Sh01, Shr70, SC85, Sla72a, Sri76, Sto75, Sud75, Tar75, Tk07, TW84, TS81, TM66]. **Linear** [TSOA80, Two63, Was80, Wel66, Yan85, Zoh74, AC05, BP11, Coh00, FGMS05, GS06, HW04, Kar00, OR00, Raz09, Reg09, SS06a, Tho99, TKBR95, VY11, EGGI92a]. **Linear-Constraint** [BAG14]. **Linear-Time** [DP14, GS78a, Gab82, GS90, KKT95, Man75, NB96, TNS82, Kor68, KSS10]. **Linearizability** [CRR18]. **Lines** [HW67, Hue73, Hue74, KM74, Zaf70]. **Linguistic** [ACDF78, Zar59]. **Linguistics** [IW71]. **link** [HLPP99]. **linked** [BAP06]. **LISP** [BM75, Sum77]. **List** [BC74, Fox70, GH60, GH68, AS13]. **List-Processing** [GH60]. **List-Storage** [GH68]. **Listings** [CF12, Sco58]. **Lists** [DST94, MY79, BAP06, SS06a]. **Literals** [dV71]. **Literature** [Doy61]. **Little** [HZ92]. **Live** [BDFG19, Kot77]. **Lived** [HHPW14]. **Lively** [Nag61]. **LL** [Bea82]. **Lloyd** [ORSS12]. **Lloyd-type** [ORSS12]. **Load** [Bra77, Rab89, Ry91, TT85, AAF+97, KP02, Vol03]. **Loading** [AG73]. **Local** [AI16, AAPS96, Aki70, AGPT16, AF77, BNR13, BN13, BK14a, CHT77, FGLS19, GTS16, GB86, GJL11, HSS11, Huc73, Huc74, KL73, KMW16, Mool19, OT95, AKS12, FKP13, GHS11, MT10, ZY03, vD97]. **Locality** [BEPS16]. **Localization** [AB17, Gri86]. **Locally** [GS06, KMRZS17, FG01, Yek08]. **Locates** [Hue71]. **Locating** [Gau61a]. **Location** [FH80, GSV84, New65, JV01, JMM+03, KKD04]. **Lock** [ACHS16, SS06a]. **Lock-Free** [ACHS16, SS06a]. **Locking** [BS85, FHS13, KS83, Klu83, Kor83, MW84, RT90, TSG85, Yan82, Yan84].
Locks [KS83], Log [Lyn77, HN04, Rei08], log-space [Rei08], Logarithmic [AZ06, RV87, Sch88, Cha01, HdlT01], Logemann [NOT06], Logic [AM90, AP93, AH94, AV82, BCR13, BFM+19, BK14b, Bry91, BW57b, BW57c, CH91b, CC95, Dav17, Deb92, EG95, EH86, FMP+19, Gab16, GMSV93, Got95a, Got95b, HS91, Hog81, Jac82, Lok72, Mam66, MT91, McD82, Net59, Nev74, Pel87, Rob65, Sag80, SDFP81, SDFP87, She65a, She65b, VK76, Win71, vRS91, AB05, AK92, BMSS97, BL96, DFS14, EG90, GKS04, RSO0, SS99, SM02, TS01], Logical-Based [EG95], Logical [BHK59, CEW58, Eld59, GV61, Hod70, Hol62b, HKP84, HR63b, HR63a, KL95, Moc56, UV88], Logics [AVV97, CF12, CG83, CK17, HHP93, HLNW01, MST93, SC85, TK91, DV95, MR01], Logspace [LZ77], Long [BCLM56, HZ92, HHPW14, Ram86], Long-Lived [HHPW14], Longest [AH76, Gon81, Hir77, KR92, Lue09], Look [Mac57, Rah69, San69, MMW07], Look-Ahead [San69], Look-Up [Mac57], Lookup [Pap87], Loop [Bli72, GK58, HS56, Hun82a, KK74, KM72b, Sho81, Swa80, vdL86], Loop-Free [Bli72], Loopless [Ehr73], Loops [BAG14], looseness [ZY03, vBD97], Lopsided [KR89], Loss [Sev74, CKOR14], Lossless [GS07], Lovász [AI16, AKS12, GJL19, HSS11, Moi19, MT10], Love [GP18b], Loveland [NOT06], Low [AH92b, CW17, DDFS14, FHS13, LO85, OR07, AM07, CGT10, FKV04, CK95b], Low-Cost [CK95b], Low-Density [LO85], Low-Distortion [FHS13], Low-Rank [CW17, AM07, FKV04], Low-Weight [DDFS14], Lower [Abe80, AAKH94, AC05, AH92b, Asp98, BL04b, Cha90a, Cha90b, CFG+17, FGR+17, FMP+15, Fre81, FG79, GHS13, GW85, GHS09, HHHN14, HS78b, JK78, Kend, Kir81, Kis91, KM96, Kun76, LY89, MST91, Mey85, Mor73, PKR84, Raz13, Raz19, RWW8, Sch88, She14, Sl80, Tiw87, Tro84, Wil14, YY76, Yao1a, AS04, AK10, BBC+01, BSV03, EFR07, FLwMV05, JLV00, Raz04, Ste02, SM02, HS78a], LP [CLR16, JMM+03, MSU99], LP-based [MSU99], LR [Bea82, Mic76, MLS76], LRU [OO99], LRU- [OO99], LSH [CK15], LSH-Preserving [CK15], M [DNRS03, Laz84, OM78, RId76, Laz84, OM78, RId76], M/M/1 [RId76], M/M/C [OM78], M/M/m [Laz84], Machine [Baz57, Blu67, BCLM56, BS76, Bru76, Cur65, Das77, Gau59, Gau60, Gin58, Gin59, GH64, Har68, Hum84, Lev56, Lee61, Leh61, LR65, Ove66, RW63, Rob65, Röc84, SM64, Swi57, Was54, Yer65, Zar59, ZL58, AAF+97, BP01, BE09, CN06, CHW12, GKH9, BS59, Tre54], Machine-Independent [Blu67], Machine-Oriented [Rob65], Machinery [AHL88, Ane74, Wil54], Machines [AF67, AVV97, ADH63, Arb61, BF67, Bel60, Ber54, BZ83, BL75, Bsh93, Cas71, Coh64, Col71a, Coo71, Cur62, Cur63b, Elg54, ER64b, ER64a, ESvL80, FHV92, Far63, Fis65b, FKS95, Gil66b, GF67, Gin60, Gin61a, Gni68, GIS2, GV61].
SH88, SM90, Yan79, ANP07, BFJ+03, BK09, CFM10, CT06, GW95].
Maximum-Finding [PKR84]. Maximum-Flow [GT88b].
Maximum-Genus [FGM88]. Mean [BR71, CV17, Dad88, FM79, PTK90, RL80, TSG85, RL81]. Mean-Payoff [CV17]. Mean-Value [RL80, RL81]. meaning [BG96]. Means [AMR11, CDOY11, HA56, SB82, AK10, ORSS12]. Measure [DI87, FGK09].
Mechanical [Ber63, BM84, EG82, Gor63, Lov68, Mey65, PPV60, Sha88, Wel66, Lov69b]. Mechanism [LS11]. Mechanisms [BK15, DR16, Mur55, SAKS64, RS09b]. Mechanization [Bar60, Pie73]. Mechanized [O'C64]. Media [HWB56]. median [OR02, JV01]. Mediated [AKK+18]. Membership [BMT92, OPSPW19]. Membrane [GS57]. Memoriam [Ano98b, DNRS03]. Memories [Fal62, Por66, Rao78]. Memory [AAD+93, AG73, ABND95, AGHR17, Bry82, BC73, CE72, CLRS86, EMG16, Flo64, FK85, Gaul61a, Har67, Joa59, JM78, KS78, KE88, Kau71, Lie59, Log78, Mit74, Pui55, RC70, Raz19, SVN+13, Smi79, TG82, UW87, Wil87, WC74, Cap02, DHH97, DR00, FG99, GHS09, NR09, SN04].
Method [Aki70, Alo60, ABV60, AMR11, BJ66, BIW63, Ber54, Bre58, Bjo84, But65, But79, Cal59, CM74, CD60, Cor63, Cry71, CV59, DMM65, Dun65, Dun66, DG57, Ehr58, Fil60, Fra60, GC65, Glu63, Gof71, GMvN59, GF60, HH57, Han63, Has70, HHHN14, HW67, HI59, HP59, HR91, Jen73, Joh61, Joh93, Kei56, Kle67a, Lel61, Lin63, Lot56, Mar59, McL84, Mon68, Par55, Pet62, PT57, Pyl64, Rab66, RA63, Sal60, Shi69, Sho77, Shr70, Sig67, Ste67, SEY15, Sto64b, Tho57, TM66, TT70, Wal61, Wan93, War57, Was54, Wee60, WSD59, Win66b, YS76, Zaf70, ACR98, KT68]. Methodology [Bry91, Sun77, CGH04, LBNS09]. Methods [BK14a, Bau78, BNNS04, BF61, Bui79, But67, BL66, Cas75, Cha62, Chu61, CPT94, DLN73, DG71, DG62, DW64, Dye68, Edm69, Fis58, Fra65, Fri73, Fro61, Gil60, GR74, Gor57, GS64, Gru70, Han59e, Han62, HST76, Hen70, Kar68, KT67, KGT4, Kro66, Kur62, Les58, Lin69, LFKN92, Mae60, Mae63, MB85, MM75, MR62, Mul59, O'C64, Par61, Sha67b, Sin86, SB73, Tor64, Wil61, Zel68, ORSS12]. Metric [BKMZ15, FL18, KSU19, JV01, KT02, Lee80]. Metrical [BLS92, BLR10]. Metrics [KV15, CGT10, ENRS00]. MGS [Ple74]. Micro [Mer57].

Names [ABF17, BF61, LY61]. Naming [BY73]. Naqvi [Bri90]. narrow [BSW01]. narrowing [AEH00]. Nash [Bab16, CDT09, Vaz12]. National
[Mey65]. Natural [Cha69b, MV15]. NC [CM93, MT88]. Near [AG17, CC04, DJSW19, Fra65, GJ76a, HKN18, KLM19, KT19, LS11, Rub15, Sha70a, Cha01, Coh00, Kar00, ŠVV09]. Near-Linear [HKN18, KT19, Coh00, Kar00]. Near-logarithmic [Cha01]. Near-Minimax [Fra65, Sha70a]. Near-Optimal [AG17, GJ76a, AMM09, Cha10]. Nearest [CK95a, MTTV97, AMN +98, AMM09, Cha10].Nearly [BBBL95, CS85, DF814, ES17]. Necessary [Bon70, Esc60, Rob71]. Needed [DDS87, GW85, AEH00, HPRW96]. Negation [BT515, Ros94, Dar01, FCB08]. Negative [GT89, KV15, BG96]. Negative-Type [KV15]. Neighbor [MTTV97, AMN +98, AMM09, Cha10]. Neighborhood [Sup83]. Neighbours [BK14b]. Nested [CK95a, MTTV97, AMN +98, AMM09, Cha10]. Nearest-Linear [HKN18, KT19, Coh00, Kar00]. Near-logarithmic [Cha01]. Near-Minimax [Fra65, Sha70a]. Near-Optimal [AG17, GJ76a, AMM09, Cha10]. Nested [CK95a, MTTV97, AMN +98, AMM09, Cha10]. necessitating [AM09]. Neumann [CM61, Muk68]. Neural [ADO91, Arb61, SD62, OG96]. neuroidal [Val00]. neuromata [ˇSVV98]. Never [EH86]. News [Alt57a, Alt57b, Alt57c, Alt57d, Ano54a, Ano54b, Ano54c, Ano54d, Ano55a, Ano55b, Ano55c, Ano55d, Ano56f, Ano56g, Ano56h, Ano56i]. Newsletter [Ano56a, Ano56b, Ano56c, Ano56d, Ano56e, Ano56f, Ano56g, Ano56h, Ano56i]. Newton [Boj84, SEY15, TW79, Zel68]. Newtonian [EK10]. next [BK79, FMW10, Gra03, McC03]. Nicholas [Yer65]. Node [WW73, Yen72]. Nodes [EBA72]. Noise [ABL17, BKM14, BGM +98, CBDF +99, Kea98]. Noise-tolerant [BKW03, BGM +98, Kea98]. Nominal [Gab16, LP14]. Non [CPY17, CST +18, DPW18b, IKM17, MS92, Ukk82, HP07]. Non-adaptive [CST +18]. Non-Clairvoyant [IKM17]. Non-FIFO [MS92]. Non-Malleable [DPW18b]. Non-Monotone [CPY17]. non-probabilistic [HP07]. Non-Real-Time [Ukk82]. Nonarithmetical [Lom62]. Nonbinary [ZZ17]. Nonclairvoyant [BL04a, nonclairvoyantly [KP03]. Noncausal [AM90]. Nonconstructive [FL88]. Noncooperative [KL95]. Noncounting
Nondeterminism [AP86, HM85a, XDB83], Nondeterministic [Flo67, GH68, Gri68, G90, HS71, Iba72, MT85, Mat90, SFM78, SN85, Ste03]. Nondistinct [Bur76]. Nonequilibrium [Kob74b]. Nonhomogeneous [WSY+19]. Nondiagonal [HS76, IK77]. Noninteractive [GOS12, BLR13].


Nordsieck [KT68]. Norm [Bun71, FHS13]. Normal [Coo66, FJ60, GH59, Gre65, Hoo66a, Hoo66b, Kro64, Mul59, Ros67b, Yas67, AL05, Dar01]. Normal-Form [Gre65]. Normalization [CLW95, Lam82]. Normalized [CV59]. Norms [She59a]. Notation [RS83]. Note [Adi71b, Ano56a, AJM80, Cal59, Cas71, Chu81, Col58, Dev66, Fik59, Gla56, GF60, HM72, Iba72, Joh73, Kam89, KP71, Kra62, Lot56, Mey69, MP70b, Mor73, Pic67, Pri76, Ros71, Ros70a, SB82, San72, Sar83, SF80, Sud75, TM66, Ull72, WW73]. Notes [Gre61, Lyn69]. Nothing [GMW91].

Notices [Alt57a, Alt57b, Alt57c, Alt57d, Ano54a, Ano54b, Ano54c, Ano54d, Ano55a, Ano55b, Ano55c, Ano55d, Ano56f, Ano56g, Ano56h, Ano56i]. Notion [MP71a, Vaz12]. Notions [GMV86]. Nowhere [GKS17]. NP [AR05, AS98, Bak94, Coo63, GJ78, GPP91, GMW91, Got95a, GMS90, GI79, GSV84, HHR97, HL13, MS19, Mul11, MR08, Roc84]. NP-Complete [Bak94, GI79, Roc84, GPP91]. NP-Completeness [GJ78, MS19].

NP-Hard [HL13, GSV84, MR08]. NP-hardness [GMS90]. NQL [Sch78].

Null [Rei86]. Number [Abe68, AA69, AM85, ADH63, AM78b, Ben80, BKST78, Boy89, CLRS86, CH86, CH88, CM67, Gra63, GSK59, Gre61, GI79, Har3a, HD64, Kan65, Ked79, Kro64, LV57, LP73, MM65, NR04, Rot60, SM18, ST74, Smi71a, Tra71, Van67, Wan74a, Wes67, Fus90].

Number-Theoretic [GJ79, NR04]. Numbers [Cer58, Cha69b, Cov60, FL74, Hab70, Hen56b, KR93, Loi69, MP66b, Mos54, Pen65, Pic64b, Sch68, Sto64a, Tez87, BT07]. Numeric [Chu81, Sar83].

Numerical [And65a, ABV60, Boo65, But65, CBHH61, CW67, Cas75, Cas76, CM61, Col58, Cra54, Cru76, Cry67, Dou59, DA68, Ehr58, Ema63, Fli60, Fra58b, FR63, GI60, Gl65, Gra5b, Her74, HW76, HJ61, Hou56b, Jon62, Kro67, Kro73, MY84, Mil73, Mil75, MR59, MR60, MR62, Moc71, Mor59, Mor62, Orn61, Phi62, Rab66, Rah69, Ske79, Spr92, Sta56, SW68, Two63, Usm66, Wee66, Wer79, Wil59a, Wil71]. Numerically [CLW95].
40

O [CAA74]. **obfuscating** [BGI+12]. **Obfuscation** [BV18]. **Object** [AK98, KLV95, VVAG97, Yak76, BN05, BY96, FG10, ZS99]. **Object-Creating** [VVAG97]. **Object-Oriented** [KLW95, BN05]. **Objective** [CaKMTM19, Phu76]. **Objects** [AI16, CRR18, CD87b, CoM68, AGMT95, FKL98, JCT98]. **Oblivious** [BPP+16, Goo11, SDS+18, GO96]. **Observation** [Ber75]. **Observational** [AGHR17]. **Obstacles** [RS94a, SR94]. **obstruction-free** [AGHK09]. **obtaining** [Cla79, Col87]. **Obtaining** [Gl63, HR63b, HR63a, Mon68, Pet62]. **Octave** [Neg66]. **Odd** [RMK79]. **Odd-Even** [RMK79]. **Off** [AP95, BHR19, BSZ06, CS11, CvH65, DJSW19, MSVV07, NR09, Sei02]. **ONR** [Neu54a, Neu54b, Neu54c, Neu54d, Neu55a, Neu55b, Neu55c, Neu55d]. **Ontology** [BKK+18]. **Ontology-Mediated** [BKK+18]. **Open** [BCMP75, GS76, GK58, Win82, Red03]. **Operating** [SM64]. **Operation** [Cof69a, Cof69b, Heh77, MC74, Sch64, Wee62, HK99]. **Operation-Preserving** [Wee62]. **Optimal** [Bol79, DP85, FB72, Pap79a, Rei72, Tay93, Yi12, Yi73, OOW99]. **Optimality** [Fl74]. **Optimisation** [WSY+19]. **Optimization**
[AV88, AG73, Bea72, Bea73a, Bea73b, BMR97, BG77, BR15, Ear74, Fui85, FMP+15, Fra69, FT87, GMSV93, HM13, HS90, MS18, RC70, Rot70, Shi69, You77, BFG03, CHW12, SSS96]. Optimized [Den61, GC65, GG61].
Optimizing [Gor56, ILP97]. Optimum
[CCF84, Chau65, Cra57, GM79, Gel79, KR89, MBM89, Wol65].

OR-dispersers [SSZ98]. Oracle [BFM+19, KMR95, CGH04]. Oracles
[BBS86, LS86, Tho04, TZ05]. ORAM [SDS+18]. Orbit
[COW16, Dye68, KL86]. Order [AM90, AAJS17, BKMZ15, CBHH61, Che17, CR56, Con57, Cra54, Cra57, Erd66, Fis56, FLO83, Fro61, Gab16, GKS17, Gru70, HNE4, Kob13, Kro66, KT74, LGT14, Man69, MG93, MM75, MR62, Mov67, MP71b, NM90, Pet15, Pic64a, Pic73, PZ19, Rei80b, Wer79, van72, BG98, BLS03, BKL+06, DKT13, EGG00, FG01, GKS04, JR07]. Ordered
[BG98, Fai85, MY79, AT07, BG01, SS06a].

Ordering [BZ14, EBA72, MB83, Rei71, Ros71, Sla72b, WH73]. Orderings
[BD94, JR07]. Ordinal [BY73, Sr176]. Ordinary
[BGP17, BKT67, Bui79, But65, Cas75, Cas76, Cha62, DG71, Gla65, Gra55b, Ham59e, Kro67, Kro73, MR62, Mor62, Pic64a, Pea69b, Win65b, EV62a]. Organizations
[Gau59, Gau60, WC74]. Organizing [AM78a]. orientable [DL07]. Oriented
[Gra62, KLW95, Nev74, Rob65, Wan93, BN05, GJS12]. Origin [DK65, Li59].

Orphan [HLMW92]. Orthogonal
[AF58, Bro65, Cha90a, Cha90b, CEG86, Fre81, You67]. Orthographic
[Wei66]. Orthologic [RS00]. Orthonormal [Rab66]. Orthonormalizing
[DR54]. Oscillating [Sob62]. Other
[BBE70, Boo82, Ehr73, GKS84, JK78, VV17, Aro98, Gro07]. Out-of-Kilter
[Sin86]. Outerplanar [BJM79]. Outline [Hol62b]. Outlines [Hol93].

Output [Cof69a, Cof69b, Fer60, Gil66b, Hof77, HR63b, HR63a, Leh74, MS59, SM81, DK59]. Output-Buffer [Hof77]. Overdetermined [Abd71, GLH57]. Overflow [EV57, Erc60]. Overhead [LS71]. Overlap [CAH94]. Overview
[HH71]. owned [DR00]. Ownership [BN05].

P [Coo03, Mul11, SEY15]. P-Time [SEY15]. P [ZY03]. Package [Wei66].

Packet [FGL77, Paw80, Tob82, Upf92, Adl05, AFGZ05, BU01].

Packet-Routing [Upf92]. Packing
[HM85b, LL85, RT88, Yao80, CJK+06, GG13b, Sei02, XB06]. Packings
[MNFT97]. PACT [Bak56, DL56, GM56, HS56, MO56, Moc65, Ste57]. Page
[ADU71, FE76, SMC79, OOW99]. Paged [Cof69a, Cof69b]. Pagenumber
[Liu69, Val15, Yeh68]. pairing [Fre99]. Pairs
[Fre91, PS78, DI04, PSSZ13, Zwi02]. Pairwise [Cha16, KT02].
Pairwise-Independent [Cha16]. Palindrome [Man75]. Palstar [GS78a].
pants [DL07]. Paper
[BCPW74, Bui77, CM57, For16, Gol60, HWB56, Nag61, dV59]. Paper-Tape
Periods [AM78b, BN71, NBC72, KLOW00].
Periodicity [HN07]. Periodification [KLOW00].
Periodic [BB58, CM93, DPRS89, GF67, GB69c, GB70]. periodically [GE01].
Permutation [BM92, EPL72, Fra76, KS74, MV15, NS82, Wak68a, Wak68b].
Permutations [Ehr73, HP99]. Permuting [GK84, PMH09].
Persistence [BB58, CM93, DPRS89, GF67, GB69c, GB70]. periodically [GE01].
Periodicity [HN07]. Periodification [KLOW00].
Periods [Dad88, Fit60].
Permutation [BM92, EPL72, Fra76, KS74, MV15, NS82, Wak68a, Wak68b].
Permutations [Ehr73, HP99]. Permuting [GK84, PMH09].
Persistence [BB58, CM93, DPRS89, GF67, GB69c, GB70]. periodically [GE01].
Periodicity [HN07]. Periodification [KLOW00].
Periods [Dad88, Fit60].
Permutation [BM92, EPL72, Fra76, KS74, MV15, NS82, Wak68a, Wak68b].
Permutations [Ehr73, HP99]. Permuting [GK84, PMH09].
Persistence [BB58, CM93, DPRS89, GF67, GB69c, GB70]. periodically [GE01].
Periodicity [HN07]. Periodification [KLOW00].
Periods [Dad88, Fit60].
KS16, Ko90, KMRZS17, Lad75, Leh61, LS80, Mát90, McC73, Mey84, Moo67, Mou65b, Mus75, Mus78, OR02, PW93, Sch80, ST74, Shi80, Smi70, SEY15, VV63, Yan85, Gro12, HP99, IFF01, JSV04, Raz09, RS09a, ST04.

**Polynomial-Space** [LS80].

**Polynomial-Time** [BBS86, CM93, CKV90, DV14, FL88, FLS18, HW76, Kan83, KL86, Ko90, Mát90, AFN04, Hal07, OR02, JSV04].

**Polynomials** [AF58, Boo65, FT88, Kal88, Rab66, RC86, Spi61, Wil78, Wil62, You67, BBC01].

**Polytope** [GML15, Rot17, AHPSV97, LZ01].

**Polytopes** [CK70, FMP15, HKM12].

**Posets** [FK16].

**Positive** [AG87, But78, CS84, AT11, Tho99].

**Possibility** [BGI12].

**Post** [AF67, BB61, Hoo66a, Hoo66b, WM74, Yas67].

**Posteriori** [Tsa74].

**Postman** [Fre79].

**Potential** [CK95a, San96].

**Potentiometers** [HA56].

**Potts** [GJ12].

**Power** [ABL17, BK78, CIV88, DH94, DS92a, Gau64, Hen56a, HH94, Iba77, Min57, PT12, Smi82, Spi61, dV59, ACKM09, BDLV98, GK04, MSU99, SRRM97].

**Power-law** [ACKM09].

**Powerful** [Gur85, Jez16, KP00].

**Powers** [Nip90].

**Practical** [Fik59, HS87, Mad66, Mor68a, Sho79, Sta72].

**Practically** [ACHS16].

**PRAM** [BH89, CD94].

**Pre** [Osb60].

**Pre-Conditioning** [Osb60].

**Precedence** [ADU72, Col70, GH73, Har60, KY83, Mar59, MP72, TPH86].

**Precedence-Based** [TPH86].

**Precision** [Blu55, BRE76, Cha66b, YS76, YLS82].

**Precondition** [KKM018].

**Preconditioning** [SS17].

**Predicate** [Hoa78, Man69, Sla70, VK76, van72].

**Predicates** [KS66].

**Predicting** [CEG86].

**Prediction** [CW67].

**Predictor** [Alo60, Cha62, CK65, GS64, Ham59e, HC63, Kar68, Kro66].

**Predictor-Corrector** [Alo60, Cha62, CK65, GS64, Ham59e, HC63, Kar68, Kro66].

**Predictors** [KT67].

**Preemptive** [BBD+15, CG93, GS78b, GJ80, HLS77, LL78, Mar82, MC70].

**Prefetching** [VK96].

**Prefix** [BP89, LF80, PGE75].

**Preconditions** [SS17].

**Preservation** [GU66b, ADK06, Ros08].

**Preserve** [GR63a].

**Preserved** [Gin60].

**Preserving** [Bav68, CK15, KLM+97, Rag03, Ram88, Wee72].

**Presidential** [Car57, Hou57, Hou56c].

**Pressburger** [Sj80].

**Prevention** [BCLM56].

**Price** [Rou15].

**Priced** [CL11].

**Pricing** [KUB+15].

**Primal** [AK16, BBN12, Mu87, Nip90, ST73, DPSV08, JV01].

**Primal-Dual** [AK16, BBN12, JV01].

**Primal-Simplex** [Mul78].

**Primality** [AB03, GK99].

**Prime** [DP75, Smi71a].

**Primes** [DP75, Fis65a, Fra61, HS68].

**Principal** [AK98].

**Primitives** [Kor83, Sta82].

**Principal** [CLMW11, Hal07].

**Principle** [Lee72, Rob65, HKM12, Raz04].

**Principles** [ADU71, Ano79, Gra77, HJV01].

**Prior** [EC64].

**Priorities** [Adi69, RA76].

**Priority** [Adi71a, Bab75, DLT07, FP94, KK74, Leu93, NT93b, Sim84, Cha00a, MSU99, Tho07].

**Privacy** [CKOR14, DJW14, BLR13, EFW10, FGY00, JRS09].

**Private** [CKGS98].
Probabilistic [AAHK94, AS98, BKB14, CHJS15, Con91, CM78, CY95, EPT18, Ell72, FKK11, GG78, IM83, Kar94, Ko90, KB81, MT85, MK60, MW84, NS06b, Pit89, Rac82, Sch80, SEY15, Adl05, CSV07, DS12, HP07, MPR98, RSG05, Tar08]. Probabilistically [Kam89]. Probabilities [AM80, CR86a, EC64, ME67, Wei62, ALS09]. Probability [AFR19, CC67, FH94, FH98, Gav67, GL71, HT93, OD67, She65a, She65b, Wil70, YW73, PSSZ13]. Probe [Gon81]. Probing [BBS90, MY80, FK87].

Problem [AF67, AHU76, AMOT90, BGP84, BMPT91, BMMN15, BJ66, BMT92, Bel62, BH74, BCS92, BN62, BM84, Bre70, BC73, Can62, CG70a, CF12, COW16, CD60, Coo66, CNPS0, CH84, Cur63b, DDFS14, Den58, Di 69b, Di 73, Dil89, DSS01, DM62, DG57, ER80a, Eh85, Ell72, EG82, ET76, Es81, FOS14, Fei84, FN93, Fre83, Fri63a, GM79, GG78, Gav83, GS57, Giv57, GT88b, GH75, GYY50, GF80, Gr68, GI79, GI81, Gus83, Har76, HRS88, HW76, Hir77, HP59, Hoo66a, HS74, Jaz81, Juh71, Kan80, KL86, KW85, KIM81, KR77, KS75, Kur62, LSP82, Lam83, Lam86a, Lam86b, Lin18, LR81, LW75, MM81, Men65, Mey84, Mic76, MP91, Moc71, MS16b, Net69, Oya87, Pau74, PW93, PH68, Re80a, RKN75, Sal75, San69, Sch74]. Problem [SM90, Shi80, Spr92, Tai79, TW61, TTK66, TS74, Tsi70, Ukk82, Val15, WF74, WC74, WC76, Wri75, Yao82, You55, Zaf69, AZ06, BFJ+03, BKW03, Bu13, CLL+08, DGS01, GG13a, Hal70, KS96, Kho05, ORSS12, SV03, Sei02, SS06c, SM02]. Problem-Solving [EG82, HQ68]. Problems [AIK84, ABS15, AK84, BIKK18, Bak94, BK14a, BH89, Ber54, Ber63, BHR84a, BMM18, BH65, BR54, BCLM56, Chi86, CM61, Col58, CC95, CKV90, Cry70, Cry71, Cud70, CFG+17, DJSW19, DH56, Dun65, Dun66, EC68, EK72, Eh69, EF75, Esc60, FMS87, Fre79, FG79, GT91, GMSV93, GL71, GR80b, GC65, GH72, Gur85, GSV84, HPR15, Har57, HH63, Har69, HZ80, HL13, HM85b, HS86, HS87, HI61, Hou85a, Hsu88, HR77, HS78a, HS87b, Hum82b, Hum84, IK75, Iba78, IL83, IRT78, Ja'83, Ja'84, KLM19, Kan83, KV15, Kir81, KS74, KNY19, Kou77, LAA58b, LM94a, LO85, LR65, LR77, LZ77, LY94, MAI78, MS18, MT55, MS11, McCo3, Mey88, MTZ60, Mot94, NJ57, PY82, Ram80, RWM94, RP89, RKN75, Rot70, SG76, Sav84, Shi69].

Problems [Sla63, ST72, TNS82, Tar81a, Tar81b, Usm66, Val75, Was71, Wil91, WW18, Yan79, AS04, AR05, Aro98, ALM+98, BSSV03, BK10, Bu06, CK09, GW95, GG13b, Gro07, GSV10, HLP99, Hoc01, JV01, KTO02, KPR04, KSS10, LMW02, Lib01, MGLA00, Red03, Ste03, Val03]. Procedural [Ros79a]. Procedure [Bar60, BV84, Ber73, Com68, CR56, DP60, FLSY74, Fr62, Fr63b, Gin67, GH59, KT69, Kow75, LR77, Loo69a, Mad66, Mat81, Mou65b, PPV60, Rub74, Sch61, Sha70a, Sho79, von56, NOT06]. Procedures [Aki70, And66, And65b, Blu71, Cas76, GR60, Har64, HC63, Jo76, JM60, LW93, LW57, Lam82, Lov72, Mac57, Mac60, Mos58, NO80, Sla64, Sni84, Sni76, Wun67]. Process [Bar60, BN71, BJL+82, Car58, FLP85, GG13+17, Gra63, Smi79, BGJ10, MGLA00]. Processes [Apt83, BBK93, Bau58a, BR71, BHR84b, CDPP14, EY15, GS92b, MM79, She59a, BP01, CSV07].
Processing
[BLT93, BW91, BKS17, Blu58, Bry82, CW67, CN95, CAA74, Fox70, GHG60, GM61, HM85b, Imi91, K166, Lon62, Mcg59, NT93b, Oet57, Orm61, Pap87, Pea67, Pea68, PGL76, RS66, RP66, SL68, SS79, Tre54, GHS09]. Processor
[AK84, CMT70, CG93, FMI80, Gab82, GS78b, HY75, KM72a, Kne93, Llo82, Pri76, SC80]. Processor-Sharing [CMT70]. Processors
[DJ81, FK85, GJ76b, Gen78, GK84, HS76, IK77, KA88, LL78, Pea69b]. Produced
[Boy89, Two63]. Producing
[MO56]. Product
[BKK84, CHT77, CM83, CM96, DLN73, DHM85, HMI3, Jai15, Mck87, SB82, We65, We67, dL89, Noc79]. Product-Form
[CM83, CM96, Mck87, SB82, dL89]. Production
[Mau67a, Mel56]. Products
[Erd66, Kam89, Mor97]. Program
[AGOW66, Ber63, Bra67, BM62, Cha75, CB72, ER64b, Fri63a, Gor56, GUS83, HCS88, HRL63b, HR63a, Hu682a, Hu684, Kel73a, Kel73b, Log78, Log79, Lov77, Ram88, RD81, Rut64, Sch74, SFR68, Sla63, SB68, Smi82, Sum77, Tit55, TQ82, Wan80, Weg76, DNS05, DPSV08, EKL10, Vaz12]. Programmability
[Por66]. Programmed
[Boy57, Ros69, MS59]. Programmers
[Row57]. Programming
[AM94, Ano79, AV82, BNNS94, BHK59, Bel60, Bel62, BS59, Bon70, CK79, Cla79, Ch29, CC95, CB72, DEL80, EC68, ER64b, EGGI92a, EGGI92b, Fei84, FN93, Fox70, Ghl63, GM81, GB92, GB65, Gor57, Gra77, Gra62, Har76, Hel89, Hol62a, Hu682a, Kun80, Kan83, KH64, KB67, LS11, LL78, LR77, Lip57, McL65, Meg84, Mer57, MH82, MTZ60, Nev70, Pap81, Rem81, Rut55, Sch61, Sri65, Sri76, SR60, Ti58, TS74, VK76, Wir68a, Wir68b, YL57, Yer66, Gw95, KMS98, Lai13, MYE99, SS06b, Sku01, GK59]. Programs
[AP93, ADH15, AK16, BL90, BL79, BK95, BKK14, BIZ18, BD77, Cha66a, Cha69a, Cha69b, Deh92, GMSV93, GI81, Gur85, Heh77, HL76, Hog81, IM83, IL83, If57, JMM77, JM78, Ka88, KOB13, Kow79, Lee61, Man69, MP70a, Mat81, Pag74, Phu76, RV80, RS66, RS67, Ros94, SD69, SJ80, Tsi70, Weg88, Wei66, You77, vsR91, AB05, BN05, BGI+12, BV04, CW96, SS06b]. progress
[Hal98]. Projection
[Py64]. projections
[Mc03, Pac10]. Projects
[DRY16]. Pronounceable
[LY61]. Proof
[Apt83, ALM+98, BD94, BV84, BG15, BM84, Cha70, CG93, DAv77, FSL74, GMW91, GL70, GP18a, Ha83, Kow75, LFKN92, Mao69, MH89, PPV60, Raz16, Sha88, She92, HN07, LMW05, MT10, OOW99, Raz03]. proof-of-compliance
[LMW05]. Proofs
[BD94, BB77, GMW91, GKR15, HZ92, MV15, NVS83, AS98, BSW01, BY96, FGL+96]. Propagated
[Att57]. Propagation
[BCLM56, CO17, Gra55b, MMW07]. Proper
[Di 73, Fik59]. Properties
[ABL80, AMP73, BB70, BMZ15, Bol79, CLT18, Cha62, Coh64, DLT94, FH92, Far63, Gia60, GZ82, GKS17, Her90, Hib62, Hoa78, Hod70, Hue80, LR72, LR78, LW93, Man69, M70a, Mar13, Mon70, MP71a, MP71b, PS70, RS83, Ros68, Sel72, VV17, WS76, BKL+06, Cap02, CHL96, DKT13, FG01, JCG07]. Property
[BB58, GGR98, KBI+17, KNY19, Set74, Set75, Toy87, dS58, JRS09].
Property-Directed [KBI+17]. Proposed [Fis58]. Propositional [BK14b, CH91b, HS91, Raz03, Raz16, Sag80, SDPF81, SDPF87, SC85, van72, EM07].

Prospects [GV61]. Protection [San88, GO96]. Protein [Sha67a, BER06, Shi10, XB06]. protein-protein [BER06]. Protocol [Bra87, SDS+18]. Protocols [AGPV90, BT85, CMS89, HZ92, KS83, MS92, MS16a, TL95, Aha99, AB05, AAF+01, BOG02, KKD04, MPR98, PD98].


Pushdown [CV17, Col71a, Coo71, Ukk82, Val75, HH94]. Putnam [NCT06]. PV [HZ80]. Pyramid [Klu85].

QIP [JJUW11]. QR [CR86b]. Quadratic [AM85, FJ60, Phu76, Rub15, Sku01]. Quadrature [Gat83, LRT97, Lyn69, Mor59, Ral59, Ric75, Two63, Wer79]. Quadratic [Wei66]. Quadrilateral [KP71]. Quadtrees [Sam81]. Qualitative [BGG17, DFPP02, BT00]. Quality [ABK16, Nau83]. Quanta [PLG76].

Quantification [DP60]. Quantifier [PZ19, BR96, Bas99, KK13]. Quantifiers [Tor91]. Quantifying [RS09b]. Quantile [Igl76]. Quantized [MP71a, MP71b]. Quantum [AS04, BBC+01, BN79, Bro82, HM13, HZ16, MS16a, Unr15, ANTSV02, AKS12, Hal07, HMR+10, JRS09, May01, NS06a, RS00, Sho03]. Quasi [Cry67, Mon68, Ze68, RS09a]. Quasi-Euclidean [Mon68]. Quasi-Linear [Cry67]. Quasi-Newton [Ze68]. quasi-polynomial [RS09a]. Quasicyclic [Han62]. Quasilinear [Scha87]. Queries [AGK+17, AHK93, BC81, BKK+18, CM87, CY82, ES17, Fre81, GS92a, GUK+16, GLV12, HN84, Klu88, Mar13, Sag91, ADK06, BL00, Cha10, CC04, Chi86, CNS07, DS12, FFM08, GLS01, GKS06, HPR96, HKM+02, Kea98, SSS96]. Quotient [ABB+17, Bab16, BKS17, BSKK+16, Che17, CST+18, FFG02, Iml91, Klu82].
KMRZS17, KUB⁺¹⁵, Rei86, Wil91, AK98, AL08, BDLW98, BLSS03, BKW03, GKPS05, Kif98, MR10a, NV02, Van07, Yek08, tCL09. Query-Based [KUB⁺¹⁵]. Querying [BLR14, LMV16]. Question [Coo64, Koc69, Coo03]. Question-Answering [Coo64, Koc69]. Questions [HU68a, Koc69, Rac82, Win82]. Queue [AAI69, Adi71a, AHY73, Bab75, Cof69a, Cof69b, Del70, FP94, Kam82, Kne93, Kob74a, Laa84, LS71, MM84, Ril76, dL89, Cha00a, LMM03]. Queue-Dependent [Del70]. Queue-Length [dL89]. Queued [LMNM03]. Queues [ADW68, BMT89, Bra77, CHT77, CM83, CK68, DLT94, Del70, HP72b, IW71, Kle66, KM72a, KT90, Kob74a, Kob74b, KR76, Leu93, Mae77, MC74, OM78, One75, PKT90, Ras70, TPH86, Van78, Noe79]. Queues [Adi69, Adi73, BCMP75, BKK84, Cho80, CI74a, FAC81, HM72, IS78, JMG93, Oma77, PTW88, RA76, SD83, Sim84, Tar72, Tho07]. Queuing [BL90, CM96, CLW95, CG86, DCKT92, ES86, Gla91, GM92, Haj83, HM90, Hof84, Lam82, McK87, MY84, RL80, RL81, RTW94, SB82, SM81, Sur83, Tow80, TW88, dL89, BKR⁺⁰¹]. Quotients [GS63].

R [Bui77]. R. [ZY03]. Race [BS89]. Radius [LM86]. Radix [HI59, Mac66, Mat82]. RAM [SDS⁺¹⁸]. Ramakrishna [Mul11]. RAMs [DR00, GO96, PMH09]. Ramsey [BKS⁺¹⁰, KNY19, MSM85]. Random [AI16, ADH63, AP86, BYG08, BC93, BB58, BB59, BSSV03, FHS98, VH06]. Randomness [MS16a, GUV09]. Range [Cha00a, Cha01, Cha02, CCF84, HV07]. Rank [BAG14, YW73, AC08, BSSV03, FHS98, VH06]. Ranking [BAG14, YW73, AT10, ACN08]. Raster [CLRS86]. Raster-Graphics [CLRS86]. Rasterizing [Hob89]. Rate [ADG15, Bau58b, BSKK⁺¹⁶, BEGH17, GS16, Ked79, KMRZS17, Cha00a, KSY14]. Rates [Bry82, DW64, JM60, MM84, SM16a]. Ratio [FE76, CL11]. Rational [Bas58, Hen56b, KM76, Kif98, KMRZS17, Cha00a, KSY14]. Read [ADL94]. Reachability [DKM⁺¹⁸, Tho04]. Reaching [DLP⁺¹⁶, PSL80]. Reactive [VV12, PM06]. Read-Once [AHK93]. Read/Write [CCF84, HV07]. Reach-Once [AHK93]. Read/Write [CCF84, HV07]. Real [BLT93, CW65, Col71a, ES17, EV62a, EV62b, FHMN19, Fis65a, FMR72, Gal81, GH68, GMvN59, Hei71, Hol62a, Isr57, La64, LS81a, LL73, MS19,
Man67a, MC70, Oya87, Ros67a, Ros68, Rub55, Sch64, TW61, Ukk82, Wan74b, Yak76, von56, Bas99, KT99. **Real-Time**
[BLT93, Col71a, Fis65a, FMR72, GH68, Isr57, LS81a, Man67a, MC70, Oya87, Ros67a, Ros68, Rub55, Sch64, TW61, FMNP19, KT99]. **Realistic** [CMS89].

**Realization** [CEW58, Gil66b, PPV60]. **Really** [AH94, ES15]. **reason** [KR97]. **Reasonable** [Doy65]. **Reasoning** [ABK16, BNR13, BN13, FH94, FH98, GS92b, GS93, KKMO18, KJJ03, NB95, Opp80, Wan93, BMSS09, DFPP02, FH01, HP07]. **RECAL** [CG86].

**Recognition** [Alt62, Ble66, Chu65, CC67, Doy62, DW64, EC64, GS78a, Gla57, Gre66, Gri66, Har67, HS68, Kei61, Lyn77, MF63, McA93, O’C65, DR00].

**Recognizes** [Hue73, Hue74]. **Recognizing** [GSH89, Hsu87, Joh71].

**Recompression** [Jez16]. **Reconciliation** [ZZ17]. **Reconciling** [MR10b].

**Reconfiguration** [LS87]. **Reconstructing** [BKL99, Sha67a].

**reconstruction** [CS11]. **Recontamination** [LaP93]. **Record** [CC76b, ES76, CC76a]. **Recording** [Per54]. **Records** [GS73, MW78, Wol65].

**Recoverable** [TL95]. **Rectangle** [GL88b, MP86]. **rectangular** [FV02, Zwi02]. **Rectilinear** [Hwa79, DKP98]. **Recurrence** [Cra55, Cra57, KMW67, Kar94]. **Recurrences** [DS13, HK77, Kun76, Rout1].

**recurrent** [OG96]. **Recursion** [IW91, JM78, Sch74, Fus90, Pit06, SP07].

**Recursive** [AM82, BL79, Blu67, BD77, Di 69b, FY09, FY15, Gau61b, GB74, HN84, HL66, LR72, Nau89, RV80, SS63, Transaction69, JR07]. **Recursively** [Cul79, ERR81, ER80b, GR63b, Opp80]. **Reduced** [Col67, DG57, Has70].

**Reducibilities** [Hom87]. **Reducibility** [GB69c, GB70, JMMW79, Lad75, Lyn75, AK10]. **Reducible** [CH91a, HU74, WLS85].

**Reduction** [AAJS17, ACPS93, Bra67, CH90, Cur62, Gin59, Gra63, GH72, HWB56, IOT19, Lio71, LR81, RW88, Wil59b, ZL58, AFN04, BC05].

**Reductions** [Hue80, HSt8a, HSt8b, PS81b, RMK79, Wil87, Lib01].

**Redundancy** [Sch63]. **redux** [Via13a]. **References** [DS78]. **Refinement** [AGHR17, Mad66, Mol67, Bro97, CGJ+03, MMHW97]. **Refining** [XDB83].

**Refutation** [CS71]. **Refutational** [HR91]. **Refutations** [HW74]. **Regards** [EV57]. **Regenerative** [IS78, IL79]. **Region** [AAI86, BNR13, GSV15, MP91].

**Register** [BP01, BSt6, CH86, CH88, HKMW66, LP73, RT69, SAG94, You58].

**Register-machine** [BP01]. **Registers** [Mow67]. **Regression** [CW17, Shr70, Sri76, Wal61]. **Regret** [AG17]. **Regular** [BLR14, BE97, Brz64, BG69, DKKW15, FU82, GH64, Gin67, HV95, Kah95, Mye92, OF61, Sal66, ACKM09, ACM02, BCG07, BYG96, BP03a, KLSS05].

**Regularity** [Val75]. **Reinforcement** [Cun85]. **Relabeling** [ST72].


**Relational** [AV88, AV89, AVV97, ANV13, BK87, BDLW98, BL00, BC81, CP84, Fag83, Gal82, GH66, GPV89, IL84, Klu82, Mai80, MH89, Men79, Rei86, SU82, SY80, SDPF81, SDPF87, AL05, GE01, WR03]. **Relations**
[BDFS84, Col70, FHS13, Gil66b, Gla65, Har74, HU68b, Iba77, KMW67, Kar94, MW86, McA93, NB95, PF79, BG98, BLSS03, KMP00, KJJ03].

Relationship [Bea82, BW94, LBB67]. Relationships
[BMV90, WM74, KT02]. Relative [Ber75, KMR95, LF88, Sup83, JRS09].

Relativizations [XDB83]. Relativized [Ko90, Rac82]. Relativizing [LS86].

Relaxation [JM60, JV01]. Relaxations [CLRS16, Sku01]. Relaxed
[SBN+13]. Relaxed-Memory [SVN+13]. relaxing [AFH96]. Release
[Mar82, Unr15]. Relevance [MK60, YLC76]. Reliability
[DI87, Had88, Jac54, WB97]. Reliable [AAF+94, FLMS93, BPC+12, CT96].

Remarks [CM57, Mor60, Nag61, dV59, Liv60]. Remote [Boy05, Gav71].

Removing [MS16b]. Renamable [Sla67]. Renaming
[AACH+14, ABND+90, Lew78, CR12]. Renamings [Log78, Log79]. Rent
[GMPZ17]. Repairable [LM94b, dG89]. Repeated [Gra55b, LR81].

Resolving [BC85]. Resource
[Dal73, DJSW19, Ja83, KIM81, Lio82, AAPS96, BNBYF+01, KKD04].

Resources [TW88]. Respect [Leh57]. Response [Bro82, IS78].

result-checking [WB97]. Resultant [Bar60, CE00]. Resultants [Col71b].

Results [Ble66, CM85, Di 73, DV16, GJ78, Gen78, GK84, Har63b, HS87, HU69, Jai15, JS82, Kap68, Kel73a, Ko90, Lio71, Pag74, Par55, Par61, PKT90, Re71, TM73, Van67, AAF+01, Bas99, CN06, Has01, MMHW97]. Retiring
[Hou57]. Retrieval [AF77, ACDF78, Bak62, BBH+87, BK77b, CC76a, CC76b, Coo64, Eli74, EF75, FP86, Gup79, HSTV14, MK60, Sla63, Sal73, Sta72, Sti61, Win65b, YLC76, YL77, YLS82, CKGS98, MSS01]. Retrieve
[Mor68a]. Retry [LS88]. revealing [JMM+03]. revelation [LOS02].
Reversal [Iba78]. Reversal-Bounded [Iba78]. reversals [HP99]. Reverse
[ Erd66]. Reversibility [BM70, DLT94]. Reversible [Ang82]. Reviews
[Ano60, Ham56b, Ham56c, Ham56d, Ham57a, Ham57b, Ham57c, Ham57d,
Ham58a, Ham58b, Ham58c, Ham58d, Ham59a, Ham59b, Ham59c, Ham59d,
Ham60]. Revised [DHM65]. Revision [DPW18a]. Revisited
[EH86, Min82, Sep90, CGH04]. Revising [ADG15]. Revocable
[Unr15]. Rewrite [GNP+93, HWW90]. Rewriting
[DM87, Hue80, Toy87, WZC95, BT95, TKB95]. Rewritings [BKK+18].
Richardson [Fra60]. Riemannian [CGOS13]. right [MLS76].
right-context [MLS76]. rights [Hal00]. Rigid [GNRS92]. Rigorous
[BFM+99, KMP+12]. Ring [ASW88, Fit60, FL87, Wan93]. Rings
[AAHK94, LPR13, DMR08]. RNA [Sha67a]. Road [Doy61]. Robin [Ras70].
Robots [Mur55, YUKY17]. Robust
[CLM11, DFS14, FK15, JAY97, MS16a, Rab94]. Robustly [ABND95].
Robustness [BFGY19, Rou15, Sur83]. Role [RW88, Sal70]. Romberg
[And66]. Room [KR76]. Root [Lem74, Lov16, Mou65b, Wee60].
Root-Squaring [Wee60]. Rooted [Gre73]. Roots
[BJ66, Bre67, MM75, Mou65b]. Rosser
[MNO88, DLRW15, Ros73a, Set74, Set75, Sha88, Toy87]. Rotational
[Hou58b]. Rotations [PT57, Zer85]. Round
[Dou59, KL70, LP15, Ras70, SD83, BPC+12, CS99]. Round-Off
[Dou59, KL70, CS99]. Round-Robin [Ras70]. Rounding
[BG13, DRY16, GCEO06]. Roundoff [BR71, KL73]. Rounds
[BYCHS17, Bra87, HSS18]. Route [Pol64]. Routine [Bas58, Lyn69, YL57].
Routines [Eld59]. Routing [BB95, BBL95, CK95b, DEP10, GJ94, GN94,
GL88b, Haj83, MP86, N880, P89, Tow80, Upf92, ABNC+96, AGH00.
AFGZ05, AAF+97, BOG02, RBU97, BFU01, HW04, JSM03, RT02]. row
[vD95]. row-convex [vD95]. RS [ER64a]. RS-Machines [ER64a]. RSA
[BF01, HN04]. Rules [GNP+93, HWW90, Nan89, Ral59, UV88, MR10b].
Rumor [CGLP18, Hae15]. run [WB97]. run-time [WB97]. Runge
[But67, But79, BL66, Car58, Cas75, Cas76, FRO61, GR60, GRU70]. Running

S [FHO72]. S-Semigroups [FHO72]. S.P.M. [Kle66]. Safe [Yan82].
Salesman [Bel62, BH74, CFP85, FN93, GG78, MTZ60, MS16b, PB89, SV19.
Aro98, BFJ+93]. Same [CCS14]. Sample [CBDF+99, MY16, RC86, WIl91].
Sample-efficient [CBDF+99]. Samplesort [FM70]. Sampling
[AG17, Bay72, Dav77, FM70, GJL91, RV07, ACKM09, BYG08, CMYZ12,
DLT07, SVV09, Vem10]. SAT [BSK+16, GST16, NOT06, PPSZ05].
Satellite [Dye68]. Satisfaction [BK14a, BMR97, BMM18, CLRS16, GMV86,
Hon82, LS81b, Mar13, BK10, BuL06, BuL13, Gro07]. Satisfiability
[DV14, FK15, HZ16, Pla04, Sch78, ANP07, BFG08, FLvMV05, GW95].
Savage [DFPP02]. scaffolding [HRM02]. Scalable [KS11]. Scalar [Was81].
**Scale** [ABDCBH97, DK65, Kau71, MS18, Pea69b]. **Scale-sensitive** [ABDCBH97]. **Scaled** [FL74]. **Scaling** [BFGY19, GT91, Gia64, Lam82, Ske79, BKP07]. **Scan** [One75, RR64]. **Scanning** [Bau58b]. **scenario** [CSV07]. **Schaefer** [BP15]. **Scheduled** [Cof69a, Cof69b]. **Schedules** [AC81, CT81, DVSC77, Man67a]. **Scheduling** [AZ05, BLT93, BBD+15, BL99, Gab82, GJ76b, GS76, GS78b, GJ80, HS87, HS76, HLS77, IK77, IKM17, KM72a, KN81, KSS75, KSS77, LL78, Leu93, LL73, Llo82, Mar82, MS11, MC70, NJ75, PTW88, PK80, Ras70, Rei68, RY91, Sah76, SC80, Sev74, She67, AFGZ05, AAF+97, BNYF+01, BL04a, BGM99, CN06, KMP09, MSU99, SS06, Sku01]. **Schema** [ADLM14, GS10, Hel89, FN10, JV01]. **Schemas** [AMP73, GS83]. **Schemata** [GG74, Kel73a, Kel73b, Log78, Log79, Rut64]. **Schematic** [San88]. **Scheme** [FK16, KU80, Lie59, Upf92, YY73, Zaf69, Coh00, DR03, KLOW00, RS09a, SS06b]. **Schemes** [AHPW19, BMH11, FBM83, BK86, BK87, CM87, CH91a, Edw54, Fag83, FLS18, GH73, HM85b, Hum82a, Hum84, LRY80, MY80, Mon70, MY16, RS77, Sag91, San88, Upf84, Aro98, KSS10, OR02]. **Schinzel** [Niv10, Pet15]. **Science** [Ham69, Min70, San72, Bro03, Val03]. **Sciences** [AM80, Leb56]. **Scientific** [Gof71, O'C65, Sal71a]. **Scott** [LP14]. **Search** [AM78a, BM83, BM85, BC74, Bur76, DP85, Dev86, DG71, EC68, Fal62, FGLS19, FK19, Fre82b, Fre85, Fri73, GC65, Hen70, HJ61, KZ93, KNY19, Leu93, MB85, MT93, Mey84, MM75, Mil75, Nau83, Por66, Rub74, SD69, ST85, SMC79, Tar83, Vit83, Wei72, Wil87, Wil84, dCS77, de 83, AT07, ByG08, BFG+99, Drm03, FG99, KZTH05, Kor08, MP10, MR98, Rec03]. **Searchers** [Doy61]. **Searching** [Bab63, BT57, Cha90a, Cha90b, Dav90, GMM81, Gon81, Hib62, HY77, MHG+88, Sta70, AMN+88, AMM09, ByG96]. **Second** [DH59, Dun65, Dun66, FLO83, Has70, LW63a, LW63b, Pie73, EGG00, GKS04]. **Second-Order** [FLO83, Pie73, EGG00, GKS04]. **Secondary** [GS73]. **Secrecy** [Aba99, AB05]. **Secretary** [BIKK18]. **Secrets** [Rab94]. **Section** [Via14a, LV09, VV09, Via10b]. **Secure** [ABF17, DDWY93, GHKL11, KOY09]. **Securely** [MS16a]. **Security** [AW08, Chi86, LS77, Rab89, Rei79, WYCF14, Aba99, AB05, HN04, LMW05, LW08, May01]. seen [Gro07]. **Segment** [vO93]. **Segmentation** [Den65, ES76, HP76, KPR04, Hoc01]. **Segmented** [CAA74]. **Segments** [CE92]. **Selected** [Ja'84]. **Selection** [CM89, DM81, FG79, GM79, GS69, JK78, Kir81, Nev70, Row57, TWS80]. **Self** [AM78a, Cas71, DW04, JRS+14, Kra62, LR19, ST85, von66, AK10]. **Self-Adjusting** [ST85]. **Self-Consistency** [Kra62]. **Self-Describing** [Cas71]. **Self-Organizing** [AM78a]. **self-reducibility** [AK10]. **Self-Reproducing** [von66]. **Self-Stabilising** [LR19]. **Self-Stabilizing** [JRS+14, DW04]. **selfish** [RT02]. **Semantic** [Doy61, FCB08, GK68, HR91, KP80, MR87, RV80, SL97]. **Semantic-Syntax-Directed** [KP80]. **Semantics** [BG70, Gab16, GTWW77,
[BC81, BN71, Cas76, DL56, Fri63b, GOBS69, dS58, AT11, BB10].

**Semaphore** [Sta82].

**Semi** [BC81, BN71, Cas76, DL56, Fri63b, GOBS69, dS58, AT11, BB10].

**Semi-Automated** [GOBS69].

**Semi-Automatic** [DL56].

**Semi-Decision** [Fri63b].

**Semi-Definite** [dS58, AT11].

**Semi-Implicit** [Cas76].

**Semi-Joins** [BC81].

**Semi-Markov** [BN71].

**semi-supervised** [BB10].

**Semialgebraic** [BCL19].

**semicomputable** [BT95].

**Semidefinite** [AK16, GW95, KM98, Sku01].

**Semidegenerate** [KK70].

**Semigroup** [Oeh63].

**Semigroups** [FHO72, OPSPW19].

**Semilinear** [Ros70].

**Semiring** [BMR97].

**Semiring-Based** [BMR97].

**Semirings** [JS82].

**Sense** [Tob82].

**sensitive** [ABDCBH97].

**Separable** [HS90, VY11].

**Separated** [Sti65].

**Separated** [Ko90, SFM78].

**Separators** [ABL17, MTTV97].

**September** [Hou56c].

**Sequence** [CH84, ER80a, FM79, Gon81, MS92, RT69, TL95, TRE73, Tro84].

**Sequences** [AG86, AM78b, Ata94, BB58, Boy89, Bro65, Bur76, Cer58, Cha66a, Cha69a, Col67, Hab70, Ort60, Pet15, RV78, Sha70a, AGH00, BP03a, KR14, Niv10].

**Sequencing** [Bau76, BDF81, Hel61, Sch61].

**Sequential** [Apt83, Bel60, BH84b, Cur62, Cur63b, Far63, GS69, Gil65, Gil66b, GF67, Gin59, GC65, Har63b, Hib61, Kar67, Ker71, Kle66, Lin63, Mos58, Mov70, OF61, Ran58, RP66].

**sequentially** [FKL98].

**Serial** [Cov60, Meg83].

**Serializability** [Pap79b, Set82, Yan84].

**Series** [AS54, BK78, CBHH61, Cru76, Hen56a, HY75, Min57, SL71, Spi61, TNS82, dV59, YCW99].

**Series-Parallel** [SL71, TNS82, YCW99].

**Served** [Men65].

**Server** [BBMN15, DG16, GO00, KP95, SS90c].

**Servers** [vdLL86].

**Service** [BGH+95, BDF81, Del70, HM72, Ho84, KM72b, KW66, MM86, PTW88, Pri76, SB82, Sev74].

**Service-Time** [SB82].

**Serving** [Leu93].

**Session** [HYC16].

**Set** [Aab71, AHPW19, Ata94, BRK74, BKST78, CBHH61, CF59, FOS14, GW90, Hsu88, KW85, Kir81, KLP75, Lew78, Pac10, Rei72, Rit63, SLM91, SK73, Tar75, Ty84, WH73, WRC65, Zoh74, AFN04, Bu06, CeLT00, CLL+08, Fe98, FCB08, GK96, GG13b].

**Set-Operation** [Ata94].

**set-theoretically** [FCB08].

**Sets** [AAJS17, AGPT16, Bar65, Bra67, Bro64, BCL19, CK95a, Cha69b, CH91b, Che17, CS83, Cul79, Di 69a, ERR81, ES17, GNP+93, Gin61b, GH64, GH60, HW74, Lyn75, Mar76, Mat82, MP66b, PS81b, Ros70a, Ros94, Sch68, Sla72b, WLS85, v71, AT07, KSW90, SSS96, WR03, Zwi02].

**Settling** [CDT09, CST+18].

**Severals** [Ber69, KSS75, KSS77, NT93b, She59a, Wil62].

**Shape** [CDOY11].

**Share** [LT96, UW87, BS59, BB59, DK59, GK59, MS59, She59b].

**Shared** [AAD+93, BJL+82, CK68, ES76, EGM16, KU88, KS83, KM72a, KN81, Kne93, KW66, Ras70, AGMT95, BF01, Cap02, DHW97, FK98, HV07, JCT98, Kle67b, SN04].

**Shared-Memory** [EGM16, Cap02].

**Shares** [KPW18].

**Sharing** [Ad69, AA69, Ad71a, Ad71b, AGOW66, ABN95, Bab75, BN71, Co66, CMT70, FMI00, Fra69, HP72b, KM72a, NBC72, Rab94].
She67, WYCF14, GKPR07, RS09b]. Sharp [Pet15]. Shellability [GPP+19].
Shellsort [Goo11, JLV00]. Shift [CH86, CH88, LP73, Mow67, RT69, You58].
Shift-Register [RT69]. Shifting [BE62, BSP82, Jen73, PV76]. Shop [CT81, GS76, KS73, MS11, Röe84].
Short [BSW01, ES15]. Shortest [ADF+16, AMOT90, BMPT91, BLTY94, CGS15, Fre91, GYY80, HKN18,
Joh73, Joh77, MP91, OR90, RS94b, SR94, Wag76, WW73, Yen72, AHPSV97, 
AM05, BS88, Coh00, DL07, DI04, Kho05, PSSZ13, Tho99, Zwi02].
Shortest-Path [OR90]. Shot [HPW14]. Should [Yao81b]. Showing [Dil89, Jaz81].
Shrink [HHHN14]. Shrinking [RT69]. Shifting [BE62, BSP82, Jen73, PV76].
Short [BSW01, ES15]. Shortest [ADF+16, AMOT90, BMPT91, BLTY94, CGS15, Fre91, GYY80, HKN18,
Joh73, Joh77, MP91, OR90, RS94b, SR94, Wag76, WW73, Yen72, AHPSV97, 
AM05, BS88, Coh00, DL07, DI04, Kho05, PSSZ13, Tho99, Zwi02].
Simulations [HS66, KA88, LS81a, Nic93]. Simulator [Cur65]. Simultaneous
[CBHH61, Rei87]. Single [BLP09, BE62, Bai66, Bru76, BJL+82, Car58, DCKT92, Elg54, Fra65, 
HKN18, RR64, RS94b, AGL00, BL04a, BP03b, CKL+07, KR09, Tho99].
[Bai66]. Single-Exponential [RS94b]. Single-Scan [RR64]. Single-Source
[BAF16]. singularities [Pel98]. SINR [AEK+12]. situation [PR99]. Size
[BP89, CCSS14, Cha75, FE76, GL76, GLVV12, Mor62, RV87, Rid76, Rob71, 
Wol65, Raz09]. Size-Time [BP89]. Sizing [AG73]. Skeletons
[Mon68, Mon69]. Skew [McK78]. Skip [JRS+14, JRS+14]. Sleep [Leu93].
Slotted [Tob82]. Slowing [Col87]. SLR [ML76]. Small
[BI18, Cla95, RC56, KSW09, SM02]. Smaller [AM85]. Smallest
[Bin58, Man75, MB83]. Smallest-Last [MB83]. Smooth [Aki70, ES17].
Smoothed [AMR11, BR15, ST04]. SMT [BBEG18]. Snapshot [CG18],
Snapshots [AAD+93, AACHE15, AACHE18, EFR07]. SNOBOL [FGP64].
Sockets [BEM+19]. soft [Cha00a]. Software [GR96, McL84, WB97].
Sojourn [BKK84, Kue93, McK87, MY84]. Sojourn-Time [MY84]. Solitude
[AHK94]. Solution
[BJ66, Boj84, BKT67, CG70a, CG67, CM60, CM61, Col58, Cry67, Cry70, Cur63b, Dou59, EC68, Fis56, Fis58, Fra60, Fra58b, FR63, Gau59, Gau60, Gla65, Gra55b, HST76, Her74, HW67, Hoc65, HP59, HJ61, Hou58a, Kac79, Kar68, Kro67, Laa58a, Lan59, McC73, MR59, MR60, MR62, MP59, Mou65a, Phi62, Phu76, RG67, RKN75, SB82, Shi80, Sta56, Sto73, SW68, TW61, TW84, Two63, Usm66, Was81, You56, Zoh74, vdLL86, CR86a]. Solutions [Abd71, BGP17, BH65, CK76, DDFS14, Ehr59, KIM81, Laa58b, Lam86b, LV75, MO68, Osb61, Pap84, Sig67, SL71, You55, Noe79, MW84]. Solvability [AF67, Coo66, Di 73, GH64, MRR03]. Solvable [BK14a, CC95, Fri63a, HZ80, LZ77]. Solve [BC81]. Solver [San69]. Solvers [ADG15, SK78, CCM12]. Solves [Sla63]. Solving [ABV60, ADH15, Ber54, BV04, BBE18, BB94, CHT96, CR56, CD60, Cry71, Ehr58, EG82, FOS14, Fri73, Gat83, GC65, GSV84, Has70, Hen70, LO85, Leh61, LKK83, MS18, Mey85, Moe67, NOT06, QH68, Ram80, Rot70, SK77, Tar81a, Tho57, War57, Was71, RW94]. Some [AIK84, Adi71b, AM70, Bie67, Bui79, Cau58, Chu61, Col55, DH56, EHR84, Eur74, EF75, Fei03, FL74, FW74, Fre79, Gen78, GR63b, Has01, Har64, Hib62, Hoa78, HU69, IRT78, Ja’83, JS82, Kap68, Kar67, KP90, Lio71, Lov72, Mai78, Man67b, MS74, Mit74, NJ57, Par61, PS81b, PR99, Rei72, RT88, Rob74, Rut55, ST74, Spe67, SD69, Srd65, SR71, Tar83, TM73, Tsa74, Ukk82, Van67, Wil71, WM74, vS89, PM71, Sal71a]. Sometimes [EH86, Rei86]. Sort [GH86, NV95, RV87, Sob62, VH06]. Sorted [WY88, Yao81b]. Sorting [BB87, BN62, Col87, CS88b, DPPSS9, Flo60, Flo61a, FM70, Fr56, Goe61, GK96, Goo11, Hib62, Hib63, HII59, Hor75, Hor78, IS56, Leh57, Liv60, Mac66, Man79a, MBA89, MP75, Nag59, Nag61, NS82, NV95, Tar72, FCMM00, FG05, HP99, KLOW00, Tho07]. sorting-complexity [FCM00]. Sound [Rei86, SAKS64]. Soundness [Bau85]. Source [AAJS17, AFGZ05, HKN18, Kam82, Lov77, Sch64, Tho99]. Source-to-Source [Lov77]. Sources [Par79, Par80, Kle99]. Space [AM09, BG15, Con91, DEL80, DM81, DG62, ET76, GS90, HHWP14, HSTV14, HPV77, Hor78, Ja’83, LT82, LS80, LED76, Log79, Lyn77, McC76, PU89, Pip78, Raz19, Rei80a, Sav84, YUKY17, ATSWZ00, BSSV03, CRS01, FHS98, FLyMV05, Rei08]. Space-Bounded [Con91]. Space-Economical [McC76]. Space-Efficient [HSTV14]. Space-Time [DEL80, Log79, Sav84, AM09]. Spacefilling [PB89]. Spaces [HHHN14, KSN19, MP71a, MP71b, SMI71d, span [VJ00]]. Spanner [AB17]. Spanners [ES15, KFRV15]. Spanning [Hwa79, KKT95, PY82, SL15, Sup83, ACK08, Cha00b, CHL01, HdlT01, PR02]. SPARQL [GUK+16]. Sparse [AHPW19, BBS86, CEG86, EGGI2a, EGGI2b, FKS84, GRI86, GLV70, Joh77, Kam87, LS86, Lyn75, TY79, Wag76, CE00, CFM10, DKT13]. Sparser [KN14]. Sparsification [DV14, EGIN97, AY13]. Sparsity [CW17]. Spatial [KKD04, BKL+06]. Special [MW86, ZL85, LV97, VV09]. Specifiable [Hul84]. Specific [Pet62]. Specification
Specifications [Lei54, BT95, BG96]. Spectra [AK70]. Spectral [CLTZ18, Gau64, LGT14, LM86, Neg66, She59a, BLR10, KVV04]. Spectrum [BT96]. Speech [SAKS64]. Speed [BKPO7, BC54, Cha69b, Den58, Fra61, GFL87, KP00, Leb56, PT57, Rub15, TWS80, AZ05]. Speedcoding [Bac54]. Speeding [Blu71, EGIN97]. Speedup [CN95, CHK82, LR79]. Sphere [CKM+14, MTTV97]. Sphere-Packings [MTTV97]. Spherical [CU59]. Spectra [AK70]. Spectral [CLTZ18, Gau64, LGT14, LM86, Neg66, She59a, BLR10, CJK+06]. Squaring [Wee60]. Sri [Mul11]. st [BK09]. st-flow [BK09]. Stabilising [LR19]. Stability [BW91, Cha62, CK65, MTTV97]. Stabilizability [OWA91]. Stabilization [Man67a]. Stabilizing [JRS+14, DW04]. Stable [Bui79, Con57, CI74a, CI74b, DG71, FOS14, Gil65, Ham59e, Hor78, Igl76, Ind06, ILG87, Mow67, SK78, SB73]. Stack [Aho69, BL75, ESvL80, GGH67a, GGH67b, Hs71, Ull69]. Stacks [Tar72]. staged [DP01]. Stages [But67]. stall [AGL00]. Standard [BH74, Got95b]. Standardized [Gor57]. standards [BOG02, Mey65]. Star [Br67, Mey69]. Star-Free [Mey69]. start [Via10a]. Starting [Alo60]. Starvation [Sta82]. Starvation-Free [Sta82]. State [AF67, BZ83, CKP17, Cur63b, DS92a, DS92b, Gin60, HHHN14, Hib61, Liu63, Liu69, LM94b, MH89, MM86, Tow80, Wat61, CSV09, OGG96, PD98]. State-Dependent [MM86, Tow80]. Statement [Lam86b, Rem81]. Statements [BK79, Els59]. States [Gin58, Gin59, Gin61a, HM13, RW88, SM81, ASV06, HMR+10, NS06a]. Static [AG73, Bar16, Eli74, HMS01, TTS5, YR64, BP03b, CMM12, Mac02]. Stationary [Was80]. Statistical [Doy65, DW64, DU66, FGR+17, Hem64, Her74, HJ61, LBB67, MP65, PS70, SW68, YLC76, van72, BDKW03, Kea98, SV03, Ch69a, MP66a]. Statistically [KMP+12]. statistics [FSV06, Hal02]. Steady [LM94b], stealing [BL09]. Steiner [BHM11, BGRS13, Cha72]. stencil [FV02]. Step [AACHE15, AACHE18, BT76, Ca58, KT68, Pic64a]. Step-by-Step [Pic64a]. Steps [AM85, BKS17, WSR97]. Stiff [Bui79, Cas75, Cas76]. Stiffly [DG71]. Stirling [Pic64b]. Stochastic [BGG17, Bru76, CI74a, CI74b, Das88, EY15, Gil63, HMZ13, HY75, Hoe77, Igl76, N687, San69, Sch72, Shi69, YR09, FPS98, GE01, MSU99, SPK13, SS06b]. Stock [Hal99a, Hal99b]. Stopping [DRS90]. Storage [ADW68, BCW85, Bau58b, CCF88, CM74, CC76a, CC76b, CR56, DL56, ELi74, Fra69, FM70, FB75, GL71, GH68, GL88a, GM73, GM75, GS73, Gup79, GM70, Hof84, HWB56, Kar67, MW78, Men65, PRR74, PK80, RS70, Rob71, Rob74, RS74, RS75, SM79, T66, TS81, YW73, AKMS11]. Store [Col71a, Rob71]. Stored [ER64b]. Storing [FKS84, Sin86, Ty79]. Straight [H76, IM83, IL83, JS82, Ka88]. Straight-Line
Mit74, Mit72, MC70, NT93a, NT93b, ÖWA91, Per67, Pri76, RC70, Ras70.

**Systems** [Ros73a, SM64, Sal66, SK80, Sl72a, SEY15, Sti65, Sur87, TT85, 
Toy87, TW84, Ver95, VV12, Wil77, Yan82, Yas67, dG89, AGL00, AT10, 
BT95, Bro97, CT96, EY09, FGY00, HV02, MS96, MRR03, TKB95].  
**Systolic** [vdSS89].

**Table** [FKS84, Pap87, Riv78, TY79, BFG03].  
**Tabled** [CW96].  
**Tables** [Lar76, Mac57, Pag74, PU89, Pic64b, Pic64a, RS66, RS67, Yao81b, SS06a, 
WR03].  
**Tabulation** [PT12].  
**Tag** [CM64].  
**Tagged** [Yel75].  
**takes** [ST04].

**Taking** [BC93, Hal99a, Hal99b].  
**Tape** [Bab63, Blu58, Bro64, ER64a, FMR72, GS65, Gli65, Har68, HS66, HWB56, 
HU68b, Iba72, LS81a, Sud75, Sud78].  
**Tape-Bounded** [HU69, Sud75].

**Tapes** [Gin61b, JSV97].  
**Tardos** [HS19].  
**Tarjan** [Deo76].  
**Task** [BBD+15, BCS92, BL92, Bru76, FK85, HB02, KSS75, KSS77, Man67a].  
**Task-Scheduling** [KSS75, KSS77].  
**Tasks** [AC81, BDF81, CRR18, DJ81, GJ76b, GS90, IK77, MC70, Sah76, SC80].

**Tausworthe** [TRA71, TRE73].  
**Tautogies** [BE97].  
**Taxonomic** [MG93].  
**Taylor** [CBHH61].  
**Tchebysheff** [dV59].  
**TCP** [BFM+19, DGS01, LPW02].  
**TCP/IP** [BFM+19].  
**Technical** [BT69].  
**Technique** [AM70, Bab63, BB77, CS85, ES76, GOS12, Gui78, Hof77, 
Hol62a, Isr57, Kla60, Lip57, RR64, Rut55, Sal63, ST73, SR60, Usm66, Niv10].  
**technology** [Gra03].  
**Telescoping** [Mac60].  
**Teletype** [Pol64].  
**temperature** [BKP07].  
**Template** [SU82].  
**Temporal** [AM90, AH94, BKMZ15, BMM18, 
CKP17, Dav17, Dey89, EH86, NB95, SC85, AKH02, KJ03].  
**Temporary** [PK80].  
**Tensor** [DLN73, HM13, HL13, Raz13].  
**Tensor-Rank** [Raz13].  
**Term** [Hue80, Svo75, Toy87, Ven87, Yu75, YSS78, YLS82, BT95, TKB95].

**Terminal** [Gav71, Gin58, Hii61].  
**Terminals** [LW57, Men65].  
**Terminating** [Hun84].  
**Termination** [AH92a, Bri90, TKB95, UV88].  
**Terms** [Coo71, GK68, Kar81, Spi61].  
**Ternary** [YR64].  
**Test** [BFM+19, CG57, Eld59, GHL+87, Isr57, Kro67, LR77, Mus78, SD76, SS13].

**Test-Oracle** [BFM+19].  
**Testable** [KMRZS17, GS06].  
**Testing** [BF+13, Bra67, BR54, CST+18, DK73, Gla63, GR17, GP18a, HK55, 
HM13, Hon82, HT74, Kamb80, KNY19, Kro73, Len89, MS81, O’C64, RD81, 
Set74, SSSU83, AB03, AC05, CSV07, GSS99, GGR98, GK99, Set75].  
**Tests** [Gra55a, GSK59, Row57, Set78, UV88].  
**tetrahedra** [ES09].  
**Text** [AF77, BW94, BBH+87, Doy55, KR92, SL68, Sal73, BYG96, FM05].  
**Textual** [SS82, FGMS05].  
**Their** [BF95, CK15, CLW95, CS84, 
FT87, Gau69, Gau60, GMW91, GFL87, Iba78, KBI+17, MM79, Nat67, Nip90, 
OF61, PV76, ANP+04, Har64, LR99, Niv10, Nou83, O’C64].  
**Them** [DA68, GMPZ17].  
**Theorem** [And81, Baa93, BP15, BDFG19, Cha70, CC16, DEL80, DS13, GR60, 
GNRS92, Gre65, HRST17, Haj83, Hen79, HL76, HR91, Kar68, KY83, KG74].
Lov68, Lov69b, Lov69a, MSW83, MSM85, Nev74, Ove74, Pap82, Pap85, Pet76, Rob63, Sha88, Sla67, SB68, Sla72b, Sla74, Sti73, TW88, War62, Win82, WRC65, WC867, de 86, Bu06, DNS05, Din07, ZY03, CGS15, Dix73b.

**Theorem-Proving** [HR91, Lov68, Lov69b, Lov69a, MSW83, MSM85, Nev74, Ove74, Rob63, SB68, Sti73, Dix73]. **Theoremhood** [van72].

**Theorems** [BB77, BM75, ESY85, Ros73a, Sla70, Smi70, CKL+07, LR99, Ros08, Rout1].

**Theoretic** [Cha74, CM78, FHV91, GS93, GI79, MH89, AL05, FGY00, KVW99, Ros08, Rou1].

**Theoretical** [AM70, EK72, Kle67b, KS74, MH82, Zad72, HS87].

**Theoretically** [FCB08]. **Theories** [Ban93, BE91, CS71, CCM12, LS95, McD82, PSS1b, Sho84, Sla72b, SB84, BG98, NOT06]. **Theory** [AV82, ACPS93, AGS17, BL90, BK87, Blu67, BHR84b, BT71, Cha75, CLRS86, Cur63a, Cur63b, DP60, Ehr82, Glu63, GB92, Had88, Har66, Har69, HH71, Hol62b, HY84, IW91, KK70, Kap68, Kle66, KG74, Lam66, Man66, Nel87, PSC7, Pie73, RBCC19, Ras70, RZ19, SW98, SW85, Svo75, Ven87, Ver95, Wan57, WH80, Yen82, Yeh68, You69, Zel72, von66, BLR13, BKR+01, DFP02, EM07, FKP13, GJS12, MN05, Mull1, Pel98, SK96, SCD02, SN04, ZWO03].

**Thermocouple** [Per54]. **Thesis** [Yao03].

**Thin** [ES15]. **Thinning** [SR71].

**Third** [CR56, Neg66, Zaf69, Gra77]. **Third-Order** [CR56]. **Thompson** [AG17].

**Thoughts** [Sal71a]. **threads** [CHL01].

**Three** [Al60, BM85, Bro93, CESC14, CD87b, Con68, DV95, Kei56, Red03, RS94b, ROC84, Ros83, She57b, Val03, YUKY17, Zar59, AHPSV97, BK99, BT00, ES09].

**Three-Dimensional** [Con68, Ros83, YUKY17, BK99].

**Three-Machine** [Roc84].

**Three-Point** [Al60, Kei56].

**Threeosomes** [GP18b].

**Threshold** [Mol18, She65b, WYCF14, Win71, Fei98, She65a]. **Thresholded** [Skl70].

**Throughput** [BFGY19].

**Thue** [Boo82, MNO88].

**tick** [DFSL14].

**tick-generation** [DFSL14].

**Tight** [AB17, AAHK94, AACH+14, AC08, CeLT00, CFG+17, DHK19, FG10, FV02, GST16, Kla85, LT82, LLW10, AZ08, Kol04]. **tightness** [vd97].

**Time** [AIK84, Adi69, AL69, Adi71a, AM94, AGOW66, ADLS94, Bab75, BL93, BBS86, BE11, Bar16, BSSV03, BZ14, Ber75, BN71, BP89, BGP17, BKK84, BK81, BK82, BDF81, BCL19, CW65, CMS89, Cho80, CW17, Co86, CK68, CMT70, CM93, Col71a, CR95, Coo71, CKV90, Dav17, DEL80, Del70, DV14, DSM81, DP14, DFK91, EFR07, EH86, FL88, Fis65a, FMR72, Flo60, Fio6a, FLS18, FLvMV05, Fra69, FKS84, GSH95, GSH97, Gal81, Gal82, Gal95, GPA+93, GH86, GS93, GS76, GL88b, GW85, GR79, GS73, GS90, HS01, Hal98, HPR15, HPT2b, HKNN18, HW76, H062a, HU86b, HPV77, Hor78, Isr57, Ja83, Kam87, Kan83, KLM, KKT95, KT19, KST16, Kle67b, KM72a, KN81, Kne93, Kmu61, Ko90, KW66, Lad75, LT82, LS81a, LED76, LS77].

**Time** [LL73, Log79, LB79, Man67a, Man75, Mát90, McK87, Meg84, MY84, MMR15, MC70, NC72, NB96, OR90, Oya87, Paw80, Pp78, Pri76, Rasz70, Raz19, RV87, RS66, Rei80a, Rl76, Ros67a, Ros68, Rub55, SM64, SB82, SH88, Sav72, Sav84, SS79, SD83, Sch64, SFM78, Sev74, She67, Spe97, Spi69, SEY15,
Sti65, TNS82, Tob82, TW61, TSOA80, Ukk82, Val15, Wag97, Win65a, Win67, vW96, AFN04, AGL00, AHK02, AZ05, Aro98, AMM09, BL04a, BP11, BM11, Cha01, CFM10, Coh00, FGMS05, FMNP19, Gro12, Hal07, HK99, HW04, JSV04, KP03, KT99, Kar00, KSS10, KVW00, OR02, PPSZ05, PSSZ13, RS09a, SSS06, ST04, Ste03, Tho99, WB97, Hal02. Time-Bounded [Coo71]. Time-Dependent [OR90, Rid76]. Time-Domain [Sti65]. Time-Shared [CK68, KN81, KW66, Ras70, Kle67b]. Time-Sharing [Adi69, AAI69, ADi71a, ADi71b, AGOW66, Bab75, BN71, Cof68, Fra69, HP72b, NBC72, She67]. Time-Space [Ja'83, LT82, Pip78, Raz19, Rei80a, BSSV03, FLvMV05]. Time-varying [AZ05]. Time-work [Spe97]. Timed [ACM02, FMNP19, Par79, Par80, Unr15]. Timed-Release [Unr15]. Times [AC81, BDF81, CAA74, IS78, KM74, KW66, Mar82, RKN75, SC80]. Timestamp [HHPW14, HV02]. timestamping [DW99]. Timing [ADLS94]. Toeplitz [HC72, Wat73, Zoh69, Zoh74]. Tolerance [CYZG14, Rab89, BN01]. Tolerant [DHSS95, DI87, LS88, BUM04, DFL14, JCT98, Kea98]. Tools [ACDF78, FL88]. Top [CF68, HSTV14, SMK18, UV88]. Top-Down [CF68, SMK18, UV88]. topic [BGJ10]. Topics [Ear74]. Topological [Cry71, MP71a, MP71b, Nat67, BKL06, HS99]. Topologies [Das77]. Topology [Cha72, KLPP15, TM73, CR12]. Total [Col70, HNK18, LW57, NW73, Sew74, BL04a]. trace [AT11]. traceable [DW99]. traceback [Adl05]. Traced [BIM95]. traceroute [ACKM99]. Tracking [AP95]. Tractability [Che17, Mca93, GKS04]. Tractable [Mar13, NB95, CJKK00, GMS09, KJ03]. Trade [Adl05, AGPV90, Dal73, DEL80, Di05, HMR83, Ja'83, LT82, PU89, Pip78, Rei80a, Sav84, BPC+12, BSSV03]. Trade-Off [AGPV90, Dal73, PU89, Pip78, Rei80a, BPC+12, BSSV03]. Trade-Offs [DEL80, Ja'83, Sav84, Adl05, Di05, HMR83, LT82]. Tradeoff [Log79]. Tradeoffs [Raz16, AMM09, Spe97]. Trailing [BFGL79, FG76]. Trajectories [LWS55]. Transaction [AV89, BBG89]. Transaction-Based [AV89]. Transactional [AGHR17]. Transactions [AV88, BDFG19]. Transcendental [Lan59]. Transcendentals [Dav77, RD81]. Transcode [HW55]. Transcription [Bla59]. Transducers [AD17, SMK18, ANV13]. Transducing [KR14]. Transduction [LS68]. Transfer [Abe80, GK58, HA56, JP84, Sal60]. Transferability [AGK+17]. Transfinite [HR91]. Transform [Bas58, DA68, KB81, LMN93, Mor73, NBC72, Pap79a, Pea68, Tit55, LZ01, Man01]. Transformation [BMT92, BH74, BD77, LV77, VAAG97, Wan80, Wee62]. Transformations [Har86, Wil59b]. Transformed [But79]. Transformer [She65a, She65b]. Transformers [Hoa78]. Transforming [HP99, MLS76]. Transforms [Cru76, DA68, KN14, KL70, We66]. Transient [RW88]. Transition [Bav68, Lam73, OD67, BG96]. Transition-Preserving [Bav68]. Transitions [Jun03]. Transitive [EPL72, TS10, BG98, Di05]. Translated [Yer65]. Translating [AGG62, Got95b]. Translation
Transmission [DDWY93, MS92, TL95, BPC+12]. Transportation
[Den58, DG57, Har76, Ram80, RKN75, ST73, TW61]. Transposing
[Ber58, WSD59]. Trapdoor [BM92]. Trapezoids [AAI86]. Traveling
[BH74, CNP85, GG78, MTZ60, MS16b, Arc98, BFJ+03]. Travelling
[Bel62, PB89]. Traversal [HP76]. Traversing [Pap76]. Treatment
[Bel62, Cra54, Ki67b, BT00, BM96]. Tree
[AD17, BPS82, BGRS13, CH90, Cur61, Cur63a, CMNP18, Dav90, DGM94,
FM70, FL18, GSV15, Gav83, GS83, HP76, HR91, HY77, Hwa79, McC76,
MSM85, PY82, PS81a, Ros73a, SMK18, Sta70, Tai79, ACK08, Cha00b, CT06,
FCFM00, FG99, FFG02, FG01, HLT01, PR02, Ree03, Shi10, TS10].
tree-decomposable [FG01]. tree-decompositions [FFG02].
Tree-Manipulation [Ros73a]. Tree-Searching [Dav90]. Tree-to-String
[SMK18]. Tree-to-Tree [Tai79]. Trees
[AJ76, AM78a, ADK17, BC93, Bur76, Cha72, Dev86, FK16, GJ80, Got95a,
Gre73, GSV84, Har86, Hen85, Hib62, HO82, JSS16, KLM19, KR89, KKT95,
KW89, MT85, Nau83, NW73, Pfa75, Pr80, RR92, Ros79b, RP89, RV78,
San69, SL15, SD69, ST85, Sni84, SF80, Spr92, ST72, Sta72, Sup83, Tar79,
Tar83, Weg88, Wi187, Yan85, Yi12, Zer85, ZZ17, vO93, AT07, BMSS09,
CH01, Drn03, FLMM09, GKS06, KZ98, MR98, Van07].
Treewidth [BHM11, GLVV12]. Trench [Zoh69]. Triangle [WW18]. Triangles [GP18b].
Triangular [Wil59b]. Triangularization [Hou58c, Mor60]. Triangulation
[KSW09, MR08, RS09a]. Triangulations [Rub15, BM11]. Tridiagonal
[HST76, Ort60, Sto73]. Tridiagonalization [Hou58b]. Tries
[Szp90, BYG96]. Trinomial [LV57]. Trip [SD83]. Triple [Elg54, von62].
Triple-Diagonal [von62]. Trivalent [GH87]. True [BC14, GOS13].
Truncation [Gra55b, Laa58b, Wee60]. trust [LMW05]. Truth
[LOS02, Mic57, Nat67, Net59, Pra60]. Truthful [BKS15, DV16, LS11].
Tsthebysheff [Min67]. TSP [AKS15, KLS05, TV19]. Tuned [Hob93].
Tunnel [HW856]. Tuple [AG86]. Turing [Yao03, Ar61, Cas71, Cur65,
Fis65b, Har68, HS66, Hu69, Hum84, Kar67, LR65, RW63, Wan57, Wat61].
Turn [GN94, HMZ13]. Turn-Based [HMZ13]. turnip [HP99]. Two
[AM85, BMSS09, BKT67, BS85, BL66, CCF84, Cal61, CD87b, Co68, CG93,
CH79, CP91, DW64, Fei84, Gab82, GJ76b, GR62, GS65, GH70, GI82, HP72b,
HS66, Hib61, HW67, HW76, HR63b, HR63a, ILP97, Ita78, JSV97, Kan80,
KS66, KSG68, La 64, Lee80, Lip57, MR10a, Par61, PS78, Ram80, Rei71, Sal66,
Shi80, Wag97, Wes67, Win82, de 86, vdLL86, BS88, CDT09, SS06c, GHKL11].
Two-Commodity [Ita78, Ram80]. Two-Dimensional [Cal61, Lee80].
Two-Level [HR63b, HR63a]. Two-line [Par61]. Two-Party [GHKL11].
Two-Phase [BS85, ILP97]. two-player [CDT09]. Two-Point [HW67].
Two-Processor [CG93, Gab82]. Two-query [MR10a]. two-server [SS06c].
Two-Tape [GS65, HS66]. Two-Variable [Fei84, Kan80, BMSS09].
Two-Way [CP91, GH70, GI82, KS66]. Typability [KTU94]. Type
Mac55, MS16a, Mon68, Mou65b, Oli67, Pea67, PGE75, PT57, Pul55, Pyl64, Sal63, Sam81, SD76, Sev74, She14, Tar72, Ver95, Was80, Wee66, Win82, Yen72, YSS78, YLS82, Zer85, dG89, FKL98, GW95, GKH99, HV02, JV01, JMM+03, KOY09, KRV09, KSW09, PD98, PMH09, Zwi02. USSR [GV61].


REFERENCES


XML [AW08, ADLM14, AL05, AL08, BLPS10, BMSS09, FL02, FK16, GKPS05]. XPath [BFG08, BP11, FFM08, GKPS05, MS04, tCL09, TS10]. XrML [HW08].

Yaw [ZL58]. years [McC03]. Yen [WW73]. Yield [GMW91]. Young [Til58].

Zero [GMW91, Gos12, Hei71, Joh71, Ros71, BBP95, DNS04, SV03, DS92b]. Zero-Knowledge [GMW91, Gos12, BBP95, DNS04]. Zeros [Fra58a, Klo61, RS63, Smi70, Wan74b, Wil78]. Zvegintzov [Yer65].

References


REFERENCES


[AAF+97] James Aspnes, Yossi Azar, Amos Fiat, Serge Plotkin, and Orli Waarts. On-line routing of virtual circuits with applications to

**Andrews:2001:USR**


**Agrawal:2015:AVS**


**Abrahamson:1994:TLB**


**Adiri:1969:TSQ**


**Asano:1986:PPR**


[ABNC+96] Alok Aggarwal, Amotz Bar-Noy, Don Coppersmith, Rajiv Ramaswami, Baruch Schieber, and Madhu Sudan. Efficient rout-
REFERENCES


Ailon:2005:LBL

Attiya:2008:TBA

Attar:1978:KLT

Alistarh:2016:LFC

Awerbuch:2008:OMS

Achlioptas:2009:BTS

Asarin:2002:TRE
REFERENCES


REFERENCES


Avron:2015:RAL


Allard:1963:MCR


Adiri:1969:CTS


Adiri:1971:DTS


Adiri:1971:NSM


Adiri:1973:CQB

Atserias:2006:PUH


Alstrup:2017:OIU


Adler:2005:TOP


Amano:2014:XSM


Attiya:1994:BTR


Alon:1999:LHF

REFERENCES


August 2012. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).

Ascher:1958:SEU

Aanderaa:1967:SHP

Attar:1977:LFF

Attiya:2003:AAP

Andrews:2005:SRS

Alur:1996:BRP

Arjomandi:1983:ESV
REFERENCES


the ACM, 9(2):222–239, April 1962. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


Attiya:2017:CTM


Ameloot:2017:PCT


Albers:2000:MST


Afek:1995:CFS

Arden:1966:PAS


Andersen:2016:AOL


Awerbuch:1990:TBI


Awodey:2017:HIA


Aceto:1992:TDD


Allender:1992:LBL


Alur:1994:RTL

REFERENCES


REFERENCES


REFERENCES

March 2010. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


Alt:1957:NNa  

Alt:1957:NNb  

Alt:1957:NNc  

Alt:1957:NNd  

Alt:1962:DPR  

Alt:1988:CCC  

Alt:2003:JAB  

Ashenhurst:1959:UFP  
REFERENCES


REFERENCES


REFERENCES


Andrews:1968:RM


Andrews:1981:TPM


Angluin:1982:IRL


Anonymous:1954:NNa


Anonymous:1954:NNb


Anonymous:1954:NNc


Anonymous:1954:NNd


Anonymous:1955:NNa

REFERENCES


REFERENCES


Anonymous:1968:CJA


Anonymous:1974:CJA


Anonymous:1979:CPF


Anonymous:1995:SI


Anonymous:1997:A1


Anonymous:1998:MPC


Anonymous:2015:IAF


Agarwal:2004:LAP


Achlioptas:2007:MSR


Ambainis:2002:DQC


Ameloot:2013:RTD

REFERENCES


REFERENCES

CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


Aaronson:2004:QLB


Angelopoulos:2013:PLU


Ashenhurst:1964:FEU


Aspnes:1998:LBD


Ambainis:2006:CHM


Attiya:1988:CAR

REFERENCES

Alexander:1971:BCD


Andersson:2007:DOS


Altman:2010:AAP


Avron:2011:RAE


Atallah:1994:PAE


Atserias:2004:SCU


Armoni:2000:SAC

REFERENCES

Atta:1957:EPE


Apt:1982:CTL


Abiteboul:1988:EOR


Abiteboul:1989:TBA


Abiteboul:1997:FLR


Abadi:2008:SAC


Awerbuch:1985:CNS

Alon:2013:MSN


Alon:1995:CC


Andrews:2005:STV


Andrews:2006:LHU


Andrews:2008:ATH


Baader:1993:UCT

REFERENCES


REFERENCES


[Bar16] Leonid Barenboim. Deterministic ($\Delta + 1$)-coloring in sublinear (in $\Delta$) time in static, dynamic, and faulty networks. *Journal of
the ACM, 63(5):47:1–47:??, December 2016. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


Bauer:1985:SCS


Bavel:1968:STP


Bayes:1972:MVS


Bazilevskii:1957:UED


Bofinger:1958:PPP


Bratman:1959:SSS


Brigham:1961:GSP

Borko:1963:ADC


Borko:1964:ADC


Ballantyne:1977:APT


Bender:1985:ESF


Buntine:1994:SED


Bay:1995:DLR


Balcan:2010:DMS

REFERENCES

19:46, March 2010. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).

Beimel:2000:LFR


Berger:1995:NOA


Beals:2001:QLB


Baruah:2015:PUS


Baer:1970:LOP


Brandl:2018:PIE

REFERENCES

2018. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


REFERENCES


REFERENCES

Bhatt:1996:OEB


Burgisser:2019:CHB


Brown:1956:PPM


Baskett:1975:OCM


Balkovich:1974:CPG


Billionnet:1992:EAT


Baker:1985:ARC

REFERENCES


REFERENCES


REFERENCES


REFERENCES

December 2017. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


REFERENCES


REFERENCES


[BFMY83] Catriel Beeri, Ronald Fagin, David Maier, and Mihalis Yannakakis. On the desirability of acyclic database schemes. *Journal


REFERENCES


Bournez:2017:PTC


Byrka:2013:STA


Bramble:1965:ASM


Bellmore:1974:TMP


Beame:1989:OBD


Bellman:1959:ADP


Bergstra:1990:MA


REFERENCES


REFERENCES


REFERENCES


Barto:2014:CSP

Brotherston:2014:UPS

Boxma:1984:PFS

Brazdil:2014:EAP

Bienvenu:2018:OMQ

Berger:1999:RTD
REFERENCES


REFERENCES


REFERENCES


[BLSS03] Michael Benedikt, Leonid Libkin, Thomas Schwentick, and Luc Segoufin. Definable relations and first-order query languages over

[Baccelli:1993:ESP]


REFERENCES


REFERENCES


REFERENCES

Bistarelli:1997:SBC

Bojanczyk:2009:TVL

Baccelli:1989:AFJ

Beaudry:1992:MPA

Bose:1962:SP

Bhat:1971:BPA
REFERENCES


REFERENCES


REFERENCES


REFERENCES


Badanidiyuru:2012:TBN

Bilardi:2016:NOA

Brock:1954:Pat

Benschop:1971:MSE

Berger:1991:SWI

Basu:1996:CAC


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[BSLRZ14] Eli Ben-Sasson, Shachar Lovett, and Noga Ron-Zewi. An additive combinatorics approach relating rank to communication...

**Becker:1982:SAM**


**Beame:2003:TST**


**Ben-Sasson:2001:SPN**


**Berkovits:1965:MMA**


**Blum:2006:OAM**


**Bracken:1957:ISC**


[BT00] Ronen I. Brafman and Moshe Tennenholtz. An axiomatic treatment of three qualitative decision criteria. *Journal of the ACM*,

REFERENCES
REFERENCES


Burks:1970:ECA


Burge:1976:ABS


Butcher:1965:MMM


Butcher:1967:MGR


Butler:1978:ADF


Butcher:1979:TIR


Beeri:1984:PPD


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[Chazal:2013:PBC] Frédéric Chazal, Leonidas J. Guibas, Steve Y. Oudot, and Primož Skraba. Persistence-based clustering in Riemannian man-


[CGO13] Frédéric Chazal, Leonidas J. Guibas, Steve Y. Oudot, and Primož Skraba. Persistence-based clustering in Riemannian man-
REFERENCES


REFERENCEs


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES

CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).

Cherniavsky:1979:CCH


Callahan:1995:DMP


Chien:1995:PAR


Chuzhoy:2009:PFC


Chierichetti:2015:LPF


Chor:1998:PIR


REFERENCES

CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).

Christodoulou:2016:BCA


Cosmadakis:1990:PTI


Crane:1962:SGC


Cicalese:2011:CRE


Chuzhoy:2016:PAA


Clarke:1979:PLC

REFERENCES

Clarkson:1995:VAL


Chen:2008:FPA


Candes:2011:RPC


Chor:1986:ANT


Chan:2016:ACS


Chan:2018:SPH

REFERENCES

Choudhury:1995:CNC


Cordray:1957:RRP


Chow:1960:BCS


Chow:1961:NSN


Cocke:1964:UTS


Coveyou:1967:FAU


Chien:1974:DSM

REFERENCES


 REFERENCES


[Crescenzi:2004:AIE]

[Czerwinski:2018:MTP]

[Chor:1989:SCT]

[Coffman:1970:WTD]

[Cormode:2012:CSD]

[Chang:1995:BSE]
REFERENCES


REFERENCES

178

Coffman:1969:EAD


Coffman:2003:J


Cohn:1955:SEI


Cohn:1964:PLM


Cohen:2000:PTN


Cole:1958:NNS


Collins:1967:SRP

REFERENCES


REFERENCES


Coveyou:1960:SCG


Chonev:2016:COP


Cosmadakis:1984:URV


Crochemore:1991:TWS


Conway:1994:EDM


Chen:2017:CNM


Conte:1956:KTO

REFERENCES


REFERENCES


REFERENCES


1984. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


REFERENCES


REFERENCES

Carroll:1967:APP


Chen:1996:TED


Clarkson:2017:LRA


Chow:1982:CFQ


Courcoubetis:1995:CPV


Chen:2014:CFT


Dubner:1968:NIL

REFERENCES


REFERENCES


[DDST16] Benjamin Doerr, Carola Doerr, Reto Spöhel, and Henning Thomas. Playing Mastermind with many colors. Journal of
REFERENCES

the ACM, 63(5):42:1–42:??, December 2016. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).

Dolev:1993:PSM


deChampeaux:1983:BHS


deChampeaux:1986:SFI1


Dean:1989:UTH


Debray:1992:EDA


Delbrouck:1970:FQS

 REFERENCES


REFERENCES

2010. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


[DFK91] Martin Dyer, Alan Frieze, and Ravi Kannan. A random polynomial time algorithm for approximating the volume of convex bodies. *Journal of the ACM*, 38(1):1–17, January 1991. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic). URL http://www.acm.org/pubs/toc/Abstracts/0004-5411/102783.html. A constant time oracle is assumed for determining if a point in space is inside or outside a convex body in $n$-dimensional Euclidean space. The algorithm runs in time bounded by a polynomial in $n$, the dimension of the body, and $1/\epsilon$, where $\epsilon$ is the relative error bound. With probability $3/4$, it finds an approximation satisfying the error bound.


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


November 2014. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Shlomi Dolev and Jennifer L. Welch. Self-stabilizing clock synchronization in the presence of Byzantine faults. *Journal of the*
REFERENCES


REFERENCES


**Edmundson:1969:NMA**


**Edwards:1954:SAM**


**Elias:1975:CSS**


**Engelfriet:1989:PSV**


**Ellen:2007:TLB**


**Evfimievski:2010:EP**


**Ernst:1982:MDC**

REFERENCES


REFERENCES


[Ehr59] Louis W. Ehrlich. Monte Carlo solutions of boundary value problems involving the difference analogue of $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + \left(\frac{K}{y}\right)\left(\frac{\partial u}{\partial y}\right) = 0$. *Journal of the ACM*, 6(2):204–218, April 1959. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


REFERENCES

Even:2000:DCA


Even:1972:PGT


Ehrhard:2018:FAP


Elgot:1964:RMA


Elgot:1964:RAS


Ehrenfeucht:1980:SEP


Engelfriet:1980:FPL

REFERENCES


REFERENCES


REFERENCES

719. October 1976. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


REFERENCES


Fuller:1975:ADS


Frisch:2008:SSD


Farach-Colton:2000:SCS


Fagin:1976:IMR


Feit:1984:FAT


Feige:1998:TAS

Feigenbaum:2003:SCG


Ferguson:1960:IOB


Ferguson:1964:MC1


Flum:2002:QET


Flesca:2008:MXQ


Feldstein:1976:CED


Fussenegger:1979:CAL


[Feige:1996:IPH] Uriel Feige, Shafi Goldwasser, Laszlo Lovász, Shmuel Safra, and Mario Szegedy. Interactive proofs and the hardness of approx-


REFERENCES


REFERENCES


[FKRV15] Ronald Fagin, Benny Kimelfeld, Frederick Reiss, and Stijn Vansummeren. Document spanners: a formal approach to infor-
REFERENCES


Frederickson:1987:ELS

Michael L. Fredman, János Komlós, and Endre Szemerédi. Storing a sparse table with $O(1)$ worst case access time. *Journal of the ACM*, 31(3):538–544, July 1984. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic). Extends the work of Tarjan and Yao [TY79], using a two-level data structure, the first containing pointers to the second, and the second containing blocks accessible by a perfect hashing function.

[FKS84]

Frievalds:1995:IFL


[FKS95]

Frieze:2004:FMC


[FKV04]

Fenner:1974:SNB


[FL74]

Frederickson:1987:ELS


[FL87]

Fellows:1988:NTP

REFERENCES


REFERENCES


Fischer:1985:IDC  
Michael J. Fischer, Nancy A. Lynch, and Michael S. Paterson. Impossibility of distributed consensus with one faulty process. Journal of the ACM, 32(2):374–382, April 1985. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic). URL http://www.acm.org/pubs/toc/Abstracts/0004-5411/214121.html. This paper proves that every completely asynchronous, deterministic algorithm for Byzantine agreement has the possibility of nontermination, even with only one faulty processor. This impossibility result does not hold in the synchronous case. For completely asynchronous probabilistic algorithms, the problem is avoided since termination is only required with probability 1. See Section xxx for an example of such a probabilistic algorithm for asynchronous Byzantine agreement.

Fomin:2016:ECR  

Fomin:2018:EGM  

Fleisig:1974:IME  

Fortnow:2005:TSL  
REFERENCES


[FMR72] Patrick C. Fischer, Albert R. Meyer, and Arnold L. Rosenberg. Real-time simulation of multihead tape units. *Journal of the...
REFERENCES


[FOS14] Yuri Faenza, Gianpaolo Oriolo, and Gautier Stauffer. Solving the weighted stable set problem in claw-free graphs via decomposi-
REFERENCES

Fisch:1970:ALP


Coho. ISSN 0004-5411 (print), 1557-735X (electronic).

Flajolet:1986:PMR


Fischer:1994:FPQ


Fernandes:1998:EDV


Freudenstein:1963:NSS


556, 1963. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).

Frank:1958:FZA


0004-5411 (print), 1557-735X (electronic).
REFERENCES


Fredman:1981:LBC


Fredman:1982:CMA


Freuder:1982:SCB


Frederickson:1983:IDS


Frederickson:1991:PGD


Fredman:1999:EPH

Friend:1956:SEC

Friedman:1962:DPC

Friedman:1963:CPS

Friedman:1963:SDP

Friedli:1973:OCA

Froese:1961:ERK

Flajolet:2006:HWS

Fredman:1987:FHT
Michael L. Fredman and Robert Endre Tarjan. Fibonacci heaps and their uses in improved network optimization algo-


REFERENCES


REFERENCES


REFERENCES

July 1971. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


Gelenbe:1979:OCI


Gentleman:1978:SCR


Gordon:1960:NMC


Gill:1967:PDS


Greibach:1980:SPS


Glebergh:1987:EMC


Gardner:1961:LEO

1961. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic). See [Den61].


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES

Goldwasser:2015:DCI


Ganor:2016:ESI


Gottlob:2004:ESO


Gottlob:2006:CQT


Grohe:2017:DFO


Gershinsky:1964:AHI


Good:1970:CIA

REFERENCES


REFERENCES


Gustavson:1970:SGO


Greenwald:1956:CAU


Gurk:1961:DSI


Gurk:1970:SRI


Gotlieb:1973:PMH


Gotlieb:1975:EPM


Galil:1979:FSA

REFERENCES


[Gal2017] Ya’akov (Kobi) Gal, Moshe Mash, Ariel D. Procaccia, and Yair Zick. Which is the fairest (rent division) of them all? *Journal of


REFERENCES

1557-735X (electronic). URL http://www.acm.org/pubs/toc/Abstracts/0004-5411/116852.html. They show that for a language $L$ in NP and a string $w$ in $L$, there exists a probabilistic interactive proof that efficiently demonstrates membership of $x$ in $L$ without conveying additional information. Previously, zero-knowledge proofs were known only for some problems that were in both NP and co-NP. A preliminary version of this paper appeared in Proc. 27th Ann. IEEE Symp. on Foundations of Computer Science, 1986, under the title “Proofs that yield nothing but their validity and a methodology of cryptographic protocol design.”.


REFERENCES


Guard:1969:SAM


Goetz:1961:LEI


Goffman:1971:MMA


Goldstein:1957:DCNa


Goldstein:1957:DCNb


Goldstein:1957:DCNc


Goldstein:1957:DCNd

REFERENCES


REFERENCES

11:1–11:35, June 2012. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


REFERENCES


October 1966. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).

Greibach:1969:IHC


Green:1973:PEF


Griffiths:1968:UEP


Griffiths:1973:MMA


Grimson:1986:CLC


Grohe:2007:CHC


Grohe:2012:FPD


REFERENCES


REFERENCES


REFERENCES


[GT88a] Zvi Galil and Éva Tardos. An $O(n^2(m + n \log n) \log n)$ min-cost flow algorithm. Journal of the ACM, 35(2):374–386, April
REFERENCES


REFERENCES

June 2009. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).

**Gutenmakher:1961:PUI**


**Gorbunov:2015:ABE**


**Graham:1976:FUL**


**Greenberg:1985:LBT**


**Graham:1990:EES**


**Goemans:1995:IAA**


REFERENCES


REFERENCES

Halpern:2003:JA


Hallgren:2007:PTQ


Hammersley:1956:CMC


Hamming:1956:BRa


Hamming:1956:BRb


Hamming:1956:BRc


Hamming:1957:BRa


Hamming:1957:BRb

REFERENCES


REFERENCES


REFERENCES

Harary:1960:CPM

Harrison:1963:NCI

Hartmanis:1963:FRS

Hartt:1964:SAP

Harrison:1966:AES

Hartmanis:1967:MRC

Hartmanis:1968:CCO

Hartmanis:1969:CUP
1969. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


[Harris:1976:CTP]


[Harel:1986:ETI]


[Hartmanis:2003:SCC]


[Hashimoto:1970:MSL]


[Haastad:2001:SOI]


[Hayes:1975:FSS]

REFERENCES


[Holm:2001:PLD] Jacob Holm, Kristian de Lichtenberg, and Mikkel Thorup. Polylogarithmic deterministic fully-dynamic algorithms for connec-


Hemaspaandra:1997:EAD


Hildebrandt:1959:REI


Heath:1992:PGG


Hibbard:1961:LUB


Hibbard:1962:SCP


Hibbard:1963:SSA


Hibbard:1974:CLG

REFERENCES


REFERENCES

1977. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


January 1984. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).

Holtz:1966:SRD


Hoffmann:1976:CTS


Hirschberg:1987:NAF


Hillar:2013:MTP


Herlihy:1992:COM


Hella:2001:LAO

REFERENCES


REFERENCES

Harrow:2013:TPS


Hong:1983:CTO


Hallgren:2010:LQC


Halevy:2001:SAD


Hansen:2013:SIS


Henschen:1984:CQR


Haastad:2004:SAR

2004. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


1965. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES

Homer:1987:MDP


Honeyman:1982:TSF


Hooper:1966:IPP


Hooper:1966:MPN


Horowitz:1975:SAP


Horvath:1978:SSA


Householder:1956:BNA


Householder:1956:CMI

REFERENCES


April 1972. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


Hellerstein:1996:HMQ


Hopcroft:1977:TVS


House:1963:ECP


House:1963:CPO


Hunt:1977:ECP


Harrison:1978:AGR


Hsiang:1991:PRC


REFERENCES


REFERENCES

Hochbaum:1986:UAA


Hochbaum:1987:UDA


Hochbaum:1990:CSO


Halpern:1991:PML


Herlihy:1999:TSA


Harris:2019:MTF

REFERENCES

Haeupler:2011:NCA

Harris:2018:DCS

Heller:1976:AIM

Hon:2014:SEF

Hsu:1975:AFM

Hsu:1987:RPP

Hsu:1988:CMI
REFERENCES

302


REFERENCES


REFERENCES


305

Hume:1955:TSA


Hicks:1967:NSP


Henschen:1974:URH


Hirschberg:1976:PTA


Han:1990:EFP


Hochstein:2004:EDR


Halpern:2008:FFX

REFERENCES


REFERENCES

March 2016. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


Ibarra:1978:RBM


Inselberg:1987:CAP


Iwata:2001:CSP


Iglehart:1976:SSS


Ingargiola:1974:FOD


Ibarra:1975:FAA


Ibarra:1977:HAS


REFERENCES

Ishii:1997:OTP


Ibarra:1983:PAD

[IM83] Oscar H. Ibarra and Shlomo Moran. Probabilistic algorithms for deciding equivalence of straight-line programs. *Journal of the ACM*, 30(1):217–228, January 1983. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic). They study the complexity of deciding the equivalence of straight-line programs, i.e., those in which there are no loops, and only statements of the form $x := y$, $x := y + z$, $x := y - z$, and $x := y \cdot z$ are permitted. Given two such programs $P$ and $Q$, Ibarra and Moran ask the question: Is $P = Q$? If the domain of the variables is an infinite field such as the integers, then they show that there exists a polynomial-time probabilistic algorithm to solve this problem. If the domain is a finite field, the problem is shown to be NP-hard.

Imielinski:1991:AQP


Impagliazzo:2019:PS


Indyk:2006:SDP


Iwata:2019:IRD

REFERENCES


JaJa:1980:CBF

JaJa:1983:TST

JaJa:1984:VCS

Jac54

Jac82

Jaf83

Jaf90

Jai15
REFERENCES

2015. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


REFERENCES


JaJa:1984:ITD


Jouannaud:2007:PHO


Jain:2009:PQR


Jacob:2014:SSS


Jerrum:1982:SEC


Joung:1996:CSC


Jancar:2008:UBD

REFERENCES

2008. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


[JV01] Kamal Jain and Vijay V. Vazirani. Approximation algorithms for metric facility location and k-Median problems using the primal-


Kaminski:1987:LTA


Kaminski:1989:NPV

Michael Kaminski. A note on probabilistically verifying integer and polynomial products. *Journal of the ACM*, 36(1):142–149, January 1989. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic). URL http://www.acm.org/pubs/toc/Abstracts/0004-5411/214082.html. The author describes probabilistic algorithms for verifying the product of two \( n \)-bit integers in \( O(n) \) bit operations, and for verifying the product of two polynomials of degree \( n \) over integral domains in \( 4n + o(n) \) algebraic operations. The error probability is \( o\left(\frac{1}{n^{1/\epsilon}}\right) \) for any \( \epsilon > 0 \).

Kanner:1965:NBC


Kannan:1980:PAT


Kannan:1983:PTA


Kaplan:1968:SCR

REFERENCES


REFERENCES


REFERENCES


Kifer:1998:DAQ

[135x681] REFERENCES


Katoh:1981:ABS


Kirkpatrick:1981:ULB


Kissin:1991:ULB


Krokhin:2003:RAT


Kagiwada:1970:IVT


Katz:1974:PDL

REFERENCES

Kolaitis:2013:RGP

Kempe:2004:SGR

Kaminski:2018:WPR

Karger:1995:RLT

Kaneko:1970:ARE

Kaneko:1973:LRE

Kannan:1986:PTA


REFERENCES


REFERENCES


Konheim:1972:SLS


Konheim:1974:WLT


Karhumaki:2000:ELR


Kirsch:2012:ERA


Kumar:2009:UAS


Kurtz:1995:ICF

REFERENCES

Kopparty:2017:HRL


Karger:1998:AGC


Karp:1967:OCU


Kuhn:2016:LCL


Kleinrock:1981:OSA


Kane:2014:SJL

Knauer:1975:SPC


Knessl:1993:STD


Knuth:1961:MDL


Komargodski:2019:WBV


Ko:1990:SCR


Kobayashi:1974:ADAb

Hisashi Kobayashi. Application of the diffusion approximation to queueing networks II: Nonequilibrium distributions and applications to computer modeling. *Journal of the ACM*, 21(3):
Kobayashi:2013:MCH

Kochen:1969:AQA

Koltun:2004:ATU

Korolev:1958:CCC

Korth:1983:LPD

Kortelainen:1989:CFC

Korf:2008:LTD


REFERENCES

Koutsoupias:1995:SC


Koscielski:1996:CMA


Kalyanasundaram:2000:SPC


Kameda:2002:PDD


Kalyanasundaram:2003:MFT


Kutten:2015:CUL


Kleinberg:2004:SP

REFERENCES

280, March 2004. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


[KSS75] K. L. Krause, V. Y. Shen, and H. D. Schwetman. Analysis of several task-scheduling algorithms for a model of multiprogramming


REFERENCES


REFERENCES


Koutris:2015:QBD


Kung:1976:NAL


Kurtzberg:1962:AMA


Kearns:1994:CLL


Khuller:1994:BAG


Kolaitis:2004:F


Khot:2015:UGC

Subhash A. Khot and Nisheeth K. Vishnoi. The unique games conjecture, integrality gap for cut problems and embeddability


[KW85] Richard M. Karp and Avi Wigderson. A fast parallel algorithm for the maximal independent set problem. *Journal of the ACM*, 32(4):762–773, October 1985. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic). URL http://www.acm.org/pubs/toc/Abstracts/0004-5411/4226.html. This important paper showed that the maximal independent set problem for graphs can be solved in polylogarithmic time using a polynomial number of processes on a PRAM in which concurrent reads and writes are disallowed. They derive their algorithm from a randomized one using a technique that has become known as derandomization via $k$-wise independence.


REFERENCES

Laasonen:1958:TED


Ladner:1975:SPT


Laird:2013:GSP


Lam:1982:DSG


Lamport:1983:WBG


Lamport:1986:MEPa


Lamport:1986:MEPb

Lampson:2003:GCU


Lance:1959:SAT


LaPaugh:1993:RDH


Larson:1976:ECC


Larson:1983:AUH


Latouche:1981:AAM


Lawler:1964:AMB


Lazar:1984:OFC

Lueker:1979:LTA


Lewis:1967:SDS


Leyton-Brown:2009:EHM


Lebedev:1956:HSE


Lipton:1976:STH


Lee:1961:CAM


Lee:1972:FLR

REFERENCES

Lee:1980:TDV


Lee:2002:FCF


Lehmer:1957:SCR


Lehmer:1961:MMS


Lehot:1974:OAD


Leiner:1954:SSD


Leichner:1957:DCC


Leighton:1991:LE


REFERENCES


[Lie59] Julius Lieblein. A general analysis of variance scheme applicable to a computer with a very large memory. *Journal of the ACM*, 6
REFERENCES


REFERENCES

Lindell:2006:CAB


Lenzen:2010:TBC


Lubachevsky:1986:CAA


Ladkin:1994:BCP


Lui:1994:CBS


Linial:1993:CDC

Leonardi:2003:BDQ


Lamport:1985:SCP


Libkin:2016:QGD


Li:2002:CSS


Li:2005:BPC


Leiner:1959:PNM


Liu:1997:EBA

Lagarias:1985:SLD


Logrippo:1978:REM


Logrippo:1979:RMP


Loizou:1969:NJC


Lombardi:1961:SHF


Lombardi:1962:MSN


Lomet:1973:FTD


Lovett:2016:CBR


Lowe:1968:IDB


Lewis:1973:GFS


Lee:1979:OAF


Losch:2014:DSN


Lin:2015:CRN


Lyubashevsky:2013:ILL

Lotker:2015:IDA


Low:2002:UTV


Lin:1965:CST


Landweber:1972:RPA


Lin:1977:DPG


Landweber:1978:PCF


Lemme:1979:SPA

REFERENCES


1977. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


DEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


REFERENCES


REFERENCES

Maddison:1966:PNL


Maehly:1960:MFR


Maehly:1963:MFR


Maekawa:1977:QMC


Maier:1978:CSP


Maier:1980:MCR


Mamelak:1966:PCL


Mandelbaum:2003:RH


Markov:1958:ICS


Marimont:1959:NMC


Maron:1961:AIE


Martin:1971:DEA


Martelli:1976:GEA


Martel:1982:PSR

REFERENCES


REFERENCES


Michel:1974:SFQ


Mitra:1987:RPC


McAllester:1993:ART


McAllester:2002:CAS


McClellan:1973:ESS


McCright:1976:SES

REFERENCES


REFERENCES


REFERENCES


REFERENCES

McAllester:1993:TSF


Mundhenk:2000:CFH


Meyer:1982:ADP


McCune:1989:MSC


Megiddo:1988:CSG


Mickunas:1976:CCP

REFERENCES


REFERENCES


Milne:1979:CPT


Mayr:1981:CFC


McKenna:1984:AEI


Mitra:1986:AEC


Mohring:1997:MRB


Mostefaoui:2015:SFA

Achour Mostéfaoui, Hamouma Moumen, and Michel Raynal. Signature-free asynchronous binary Byzantine consensus with $t < n/3$, $O(n^2)$ messages, and $O(1)$ expected time. *Journal of the ACM*, 62(4):31:1–31:??, August 2015. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).
Maneva:2007:NLS

Merro:2005:BTM

McNaughton:1988:CRT

Miller:1956:PCI

Morris:1968:CSM

Mock:1956:LOP

Mock:1971:NAN
REFERENCES


REFERENCES

Morrison:1959:NQM

Morrison:1960:RUT

Morrison:1962:OMS

Morrison:1968:PPA

Morse:1968:MMA

Morgenstern:1973:NLB

Morgenstern:1975:LCC


REFERENCES


REFERENCES


REFERENCES


REFERENCES

CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).

Mostefaoui:2003:CIV


Mock:1959:SSP


Michie:1974:SBD


Muller:1989:IMD


Mansour:1992:IBP


Marcus:1996:FMD

REFERENCES


Meghini:2001:MMI


Mansour:1991:LBI


Marek:1993:MN


Mohring:1999:ASS


Mehta:2007:AGO


Maurer:1982:DHG

H. A. Maurer, A. Salomaa, and D. Wood. Dense hierarchies of grammatical families. *Journal of the ACM*, 29(1):118–126,
REFERENCES

January 1982. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


REFERENCES

376–383, July 1959. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


**McKellar:1978:DPR**


**Mitra:1984:PMD**


**Manna:1986:SRA**


**Mendelson:1979:PMO**


**Mendelson:1980:NAA**


**Melamed:1984:NCS**


REFERENCES


REFERENCES

Netherwood:1959:LMT


Neumann:1954:SODa


Neumann:1954:SODb


Neumann:1954:SODc


Neumann:1954:SODd


Neumann:1955:SODa


Neumann:1955:SODb


Neumann:1955:SODc

REFERENCES


Naughton:1994:HFP


Naor:2004:NTC


Naor:2009:COM


Nassimi:1980:ORA


Nassimi:1982:PPS


Nayak:2006:LAQ


Nederhof:2006:PPS

REFERENCES


Odell:1967:CFP


Oehmke:1963:SAI


Oettinger:1957:AIA


Ott:1961:DSM


Omlin:1996:CDF


Orponen:1994:IC


Oliver:1967:AFE

REFERENCES

1967. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


Ortega:1960:SST


Osborne:1960:PCM


Osborne:1961:LSS


O'Hearn:1995:PLV


Otto:2012:HAG


Overheu:1966:AMS


Overbeek:1974:NCA

REFERENCES


REFERENCES


REFERENCES

Parsons:1955:SDC

Parter:1961:SCR

Parikh:1966:CFL

Parchmann:1979:CSM

Parchmann:1980:CCS

Pavlidis:1972:LCF

Pawlikowski:1980:MWT


Pellegrini:1998:EFS


Penney:1965:BSC


Perley:1954:ASG


Perkins:1956:EPC


Perlis:1967:SAS


Peterka:1962:MOS


Peterson:1976:TPL

REFERENCES

Pettie:2015:SBD


Pippenger:1979:RAC


Pfaltz:1972:GS


Pfaltz:1975:RGK


Perl:1975:EGO


Potier:1976:AAC


Phillips:1962:TNS

REFERENCES


Pitt:1989:PII

L. Pitt. Probabilistic inductive inference. *Journal of the ACM*, 36(2):383–433, April 1989. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic). URL http://www.acm.org/pubs/toc/Abstracts/0004-5411/62053.html. Inductive inference machines construct total recursive functions $\phi(x)$ given examples of the input and output of $\phi$. Probabilistic inductive inference machines are permitted coin tosses while constructing $\phi$, and are only required to construct $\phi$ with probability $p$, $0 < p < 1$. This paper shows a discrete hierarchy of inferability parameterized by $p$, for $p \leq 1/2$. Any machine that can be constructed by probabilistic inference with $p > 1/2$ can also be constructed deterministically.

Pitts:2006:ASR


Papadimitriou:1980:FSL


Pflug:1987:LPN


Pachl:1984:LBD


Pattipati:1990:AMV


REFERENCES

Perl:1981:MMT


Peterson:1981:CSR


Pierce:2000:BEP


Pease:1980:RAP

M. Pease, R. Shostak, and L. Lamport. Reaching agreements in the presence of faults. *Journal of the ACM*, 27(2):228–234, April 1980. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic). This paper is similar to their 1982 publication [LSP82], but contains a rigorous proof of the impossibility of Byzantine agreement for the case \( n = 3, t = 1 \). As usual, \( n \) is the total number of processes and \( t \) is the number of faulty processes.

Peres:2013:APS

Yuval Peres, Dmitry Sotnikov, Benny Sudakov, and Uri Zwick. All-pairs shortest paths in \( O(n^2) \) time with high probability. *Journal of the ACM*, 60(4):26:1–26:25, August 2013. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).

Pope:1957:MFR

REFERENCES

Patrascu:2012:PST


Panwar:1988:OSP


Peleg:1989:TBS


Pulvari:1955:MMU


Pippenger:1976:SGT


Pitt:1988:CLL


Pitt:1993:MCD

Leonard Pitt and Manfred K. Warmuth. The minimum consistent DFA problem cannot be approximated within any poly-

**Papadimitriou:1982:CRS**


**PY64**


**Place:2019:GHF**


**Quinlan:1968:FDP**


**Rosberg:1976:MQE**


**Rabinowitz:1966:NEC**


[Rac82] Charles Rackoff. Relativized questions involving probabilistic algorithms. *Journal of the ACM*, 29(1):261–268, January 1982. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic). Rackoff attempts to prove $R \neq P$ by assuming $P \neq NP$ and relativization (i.e., for a class of languages $C$, $C^A$ is the same as $C$ except that one can answer questions concerning membership in $A$ in constant time). Interestingly, he proves that for some oracle $A$, $P^A \neq NP^A$ and $R^A \neq P^A$, and at the same time, for some other oracle $B$, $P^B \neq NP^B$ and $R^B \neq P^B$. An earlier version of this paper appeared in *Proc. 10th Ann. ACM Symp. on Theory of Computing*, 1978, pp. 338–342.


Rao:1978:PAC


Rasch:1970:QTS


Razborov:2003:PPC


Raz:2004:RLB


Raz:2009:MLF


Raz:2013:TRL


Razborov:2016:NKT


Raz:2019:FLR


REFERENCES


REFERENCES

Richards:1973:EESb


Richards:1973:EESa


Richman:1974:CSI


Rice:1975:MAQ


Rider:1976:SAA


Ritchie:1963:FAS


Rivest:1978:OAK


Ross:1975:CSE

[ RKN75 ] G. Terry Ross, D. Klingman, and A. Napier. A computational study of the effects of problem dimensions on solution times for


1974. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES

---


---


---


---


---


---


---


---

**[Rot17]**  Thomas Rothvoss. The matching polytope has exponential extension complexity. *Journal of the ACM*, 64(6):41:1–41:??,
November 2017. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


REFERENCES


REFERENCES


Rathmann:1994:CHS


Ross:1991:OLB


Rao:1965:MMA


Romashchenko:2019:OCM


Sacca:1985:CDH


Sagiv:1980:AIM

REFERENCES


REFERENCES


Sanders:1965:DAC

Jerry Sanders. Document association and classification based on
CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).

Sandewall:1969:PPS

Erik J. Sandewall. A planning problem solver based on look-
ahead in stochastic game trees. *Journal of the ACM*, 16(3):364–
382, July 1969. CODEN JACOAH. ISSN 0004-5411 (print),
1557-735X (electronic).

Santos:1972:NBG

Eugene S. Santos. A note on bracketed grammars. *Journal of
the ACM*, 19(2):222–224, April 1972. CODEN JACOAH. ISSN
0004-5411 (print), 1557-735X (electronic).

Sandhu:1988:SPM

Ravinderpal Singh Sandhu. The schematic protection model:
Its definition and analysis for acyclic attenuation schemes. *Jour-
ISSN 0004-5411 (print), 1557-735X (electronic). URL http://

Santos:1996:LPF

Eugene Santos, Jr. On linear potential functions for approxi-
mating Bayesian computations. *Journal of the ACM*, 43(3):399–
430, May 1996. CODEN JACOAH. ISSN 0004-5411 (print),
Abstracts/jacm/233552.html.

Sarwate:1983:NNM

D. V. Sarwate. A note on “A note on multiple error detection
in ASCII numeric data communication”. *Journal of the ACM*,
30(1):33–35, January 1983. CODEN JACOAH. ISSN 0004-5411
(print), 1557-735X (electronic).

Savage:1972:CWT

J. E. Savage. Computational work and time on finite machines.
JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).
REFERENCES


REFERENCES


[SD76] Douglas C. Schmidt and Larry E. Druffel. A fast backtracking algorithm to test directed graphs for isomorphism using distance


REFERENCES

[Sethi:1974:TCR]

[Sethi:1975:ETC]

[Sethi:1978:CEE]

[Sethi:1982:UAM]

[Sevcik:1974:SMT]

[Stewart:2015:UBN]

[Solomon:1980:NEB]
Seiferas:1978:SNT


Sklansky:1968:FPT


Sahni:1976:CAP


Sarma:2011:EPG


Schank:1975:IPC


Sasaki:1988:TCM


Shaw:1966:DAC

REFERENCES

Shapiro:1967:ARP


Shaw:1967:MMM


Shampine:1970:EPN


Shaw:1970:PGR


Shankar:1988:MPC


Shamir:1992:IP


Shenitzer:1957:CAC

Sherman:1957:DTP


Sheldon:1959:SNS


Shell:1959:SSC


Sheng:1965:CTL


Sheng:1965:TLE


Shemer:1967:SMC


Shen:1992:IPS

Sherstov:2014:CLB


Shimizu:1969:SAM


Shiloach:1980:PSU


Shibuya:2010:GST


Shostak:1977:SIM


Shostak:1979:PDP


Shostak:1981:DLI


REFERENCES


REFERENCES

Selman:1996:KCT

Skeel:1979:SNS

Sklansky:1970:TCO

Schreiber:2018:OMW

Skutella:2001:CQS

Salton:1968:CEI

Simon:1971:OSS


Spielberg:1961:RPS


Spira:1969:TRG


Seshadhri:2013:DAS


Sprugnoli:1992:GBT


Stein:1960:CAD


Steffanelli:1971:SPT


Storer:1994:SPP


REFERENCES


[SSS96] Mark Scharbrodt, Thomas Schickinger, and Angelika Steger. A new average case analysis for completion time scheduling. *Journal of
REFERENCES

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
<th>Journal</th>
<th>Year</th>
<th>Pages</th>
<th>Digital ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST72</td>
<td>Accelerated algorithms for labeling and relabeling of trees, with applications to distribution problems.</td>
<td>Journal of the ACM</td>
<td>1972</td>
<td>712–726</td>
<td>CODEN JACOAH.</td>
</tr>
<tr>
<td>ST74</td>
<td>On the number of multiplications for the evaluation of a polynomial and some of its derivatives.</td>
<td>Journal of the ACM</td>
<td>1974</td>
<td>161–167</td>
<td>CODEN JACOAH.</td>
</tr>
</tbody>
</table>
REFERENCES


REFERENCES


REFERENCES

April 1981. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).

[S] Stockmal:1964:CPR

[S] Stocker:1964:DMC


REFERENCES


Stefankovic:2009:ASA

Strand:1968:SEN

Sagiv:1982:SDC

Stewart:1991:M

Stoer:1997:SMC

Sima:1998:TN
REFERENCES

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
</tr>
</thead>
</table>


Tardos:2019:IAF


Tay:1993:OSM


tenCate:2009:CQC


Tezuka:1987:DGP


Tzelnic:1982:APB


Thompson:1957:BMS


Thorup:1999:USS


REFERENCES


Toyama:1995:TDS


Tempero:1995:RST


Tsuda:1966:NLE


Tourlakis:1973:SRC


Takamizawa:1982:LTC


Tobagi:1982:DPD

Tornheim:1964:CMI


Toran:1991:CCD


Towsley:1980:QNM


Toyama:1987:CRP


Tsitsiklis:1986:PPB


Trainiter:1963:ARA


Trauth:1966:GTA

REFERENCES


S. Tsukiyama, I. Shirakawa, H. Ozaki, and H. Ariyoshi. An algorithm to enumerate all cutsets of a graph in linear time per
REFERENCES

Tantawi:1985:OSL


Toyoda:1966:AAA


Tarjan:1984:WCA


Traub:2019:APT


Totschek:1961:IRT


Traub:1979:CCN


Traub:1984:OSL

1984. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


REFERENCES

Upfal:1992:DPR


Urquhart:1987:HER


Usmani:1966:BVT


Ullman:1988:ETT


Upfal:1987:HSM


Valiant:1975:RRP


Valiant:2000:NAC

REFERENCES


[Vanzummeren:2007:DWD]

[Vazirani:2012:NRC]

[Veanes:2017:MD]

[vanBeek:1995:MGC]

[vanBeek:1997:CTL]

[vandeLiefvoort:1986:MAS]
vandeSnepscheut:1989:DSS


Vempala:2010:RSB


Venkataraman:1987:DPE


Verma:1995:TUH


Vitter:2006:DSR


Vianu:1987:DFD

REFERENCES

Vianu:2010:EJS


Vianu:2010:IAS


Vianu:2011:IJI


Vianu:2011:IAF


Vianu:2011:IAFa


Vianu:2011:IAFb


Vianu:2012:IAFa


Vianu:2012:IAFb


REFERENCES

Vianu:2013:IAF


Vianu:2014:FIA


Vianu:2014:IAFb


Vianu:2014:IAF


Vianu:2014:IAFa


Vianu:2015:IAFb


Vianu:2015:IAF


Vianu:2015:IAFa

REFERENCES


REFERENCES

Walsh:1961:CFM

Walther:1988:MSU

Wang:1957:VTT

Wang:1974:ACN

Wang:1974:UEZ

Wand:1978:NIR

Wand:1980:CBP

Wang:1993:MRE


REFERENCES


[War57]


[Was54]


[Was71]


[Was80]


[Was81]


[Wat61]
Watson:1973:AIB


Wasserman:1997:SRR


Wong:1974:CPR


Wong:1976:BSE


Weeg:1960:TEG


Weeg:1962:SAO


Weeg:1965:AGD


REFERENCES


REFERENCES


Williams:1962:APS


Wilkes:1968:CTN


Willis:1970:CCP


Wilkinson:1971:SCN


Wilhelm:1977:GMP


Wilf:1978:GBA


Williamson:1984:DFS


Willard:1987:MST

REFERENCES


REFERENCES

Weinberger:1957:SDE

Willard:1985:ARR

Wang:1985:FVS

Wojcik:1974:ASR

Wolman:1965:FOC

Wu:2003:PDC

Wos:1965:ECS
REFERENCES

499

Wos:1967:CDT


Wright:1975:CMP


Wegbreit:1976:PPC


Wheeler:1959:LEM


Wirth:2019:NPD


Wunderlich:1967:SPD


Williams:1973:NYA

Williams:2018:SEB


Wang:2014:NAI


Wang:1995:DMR


Xu:2006:FAA


Xu:1983:RNR


Yakimovsky:1976:BOD


Yannakakis:1979:ECR

Mihalis Yannakakis. The effect of a connectivity requirement on the complexity of maximum subgraph problems. *Journal of the
REFERENCES


Yannakakis:1982:TSL


Yannakakis:1984:SL


Yannakakis:1985:PAM


Yao:1980:NAP


Yao:1981:LBF


Yao:1981:STS


Yao:1982:PCK

Yao:1985:UHO


Yao:2003:CPC


Yasuhara:1967:RPN


Young:1999:GUS


Yu:1993:AMD


Yeh:1968:GPA


Yekhanin:2008:TQL

REFERENCES


REFERENCES


[YUKY17] Yukiko Yamauchi, Taichi Uehara, Shuji Kijima, and Masafumi Yamashita. Plane formation by synchronous mobile robots in
the three-dimensional Euclidean space. *Journal of the ACM*, 64 (3):16:1–16:??, June 2017. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


REFERENCES


REFERENCES

Zohar:1974:STS


Zoltners:1978:DDB


Zhou:1999:ABB


Zhong:2003:CTG


Zwick:2002:APS


Zhang:2003:EPV


Zheng:2017:RNG