A Bibliography on Pattern Matching, Regular Expressions, and String Matching

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Title word cross-reference

(l, d) [Tan14]. 1 [Mun07]. 2 [ASG99, BSM+07, BZ98, CR95b, KPR97, LT90b, OND98, SHCY93, Via02, Via04]. 3 [BSM+07, CJ93, LT90b, TCCK90]. ^{2} [Ram94]. ^{33} [BGFK15]. ^{4} [ZLN11]. c [WD99]. c^n [Rob79]. d [CGK08, CDEK95, dRL95]. δ [CIL+03]. ϵ [HM98, Lif03]. K [COZ09, ALP04, FWW13a, FGKU15, GG86, GU16, GGF13, Gra15, GL89, JL93, KVX12, NYuR15, NR17, WD99]. L_1 [LP08, LP11]. L_2 [LP11]. L_∞ [LP11]. L_p [WC14]. μ [DJ96]. N

[ML96a, ML96b, KST94, KWL07, KWLL08, Wag74]. $O(\mathrm{mod} T \bmod {}^3)$ [KKM+85]. $O(\log\log n)$ [BG90]. $O(n\lceil m/w\rceil)$ [GF08]. $O(n\log^2(n))$ [HM98]. $O(n\log^3 m)$ [CH97b]. $O(s^2)$ [CZ01]. q [HKN14, STK06, Sal12, ST95, ST96b, ST04, Ukk92]. r [Pol13]. ρ [CFK07]. $x^m y^n = z^p$ [NC92].

-automaton [COZ09]. **-bit** [KVX12]. **-calculus** [CFK07]. **-Cube** [ML96a, ML96b]. **-D** [SHCY93, BZ98]. **-Dimensional** [CDEK95, CR95b, KPR97, CGK08]. **-dimensions** [dRL95]. **-expression** [COZ09]. **-formulae** [WD99]. **-Free** [HM98, Lif03]. **-Gram** [ST95, HKN14, KST94, KWL07, KWLL08, Sal12, KWL07]. **-Gram/ 2L-approximation** [KWL07]. **-Grams** [ST04, STK06, Ukk92]. **-Interval** [Via02, Via04]. **-Like** [HK11]. **-M** [Ram94]. **-Matching** [CIL+03]. **-means** [WD99]. **-mismatches** [GGF13, Gra15]. **-motif** [Tan14]. **-norm** [WC14]. **-Samples** [ST96b]. **-Separated** [Pol13]. **-TM** [BGFK15].

.NET [AS04, SM04, Stu07].

/ [Bao93, IEE94b, SW94].

'08 [ACM08].

1003.1-2001 [IEE01a, IEE01d, IEE01c, IEE01b]. **10th** [PC99]. **11th** [GS00]. **12th** [AL01, Bun94]. **13th** [AT02]. **14th** [AAC+01, BYCC03]. **15th** [SMD04]. **16th** [ACP05]. **17th** [LV06]. **18th** [MZ07]. **1969** [ACM69]. **1974** [ACM74]. **1976** [ACM76]. **1978** [Win78]. **1979** [Ng79]. **1981** [ACM81]. **1984** [ACM84]. **1986** [ACM86]. **1987** [DT87]. **1990** [ACM90b, Cro92a, NEH90]. **1991** [ACM91]. **1992** [ACM92a, ACM92c, ACM92d, Sto92]. **1993** [ACM93a, ACM93b]. **1994** [ACM94a, ACM94d, SW94]. **1995** [ACM95a, ACM95b, ACM95c]. **1997** [ACM97b, ACM97c]. **1999** [ACM99a, ACM99b, AOV+99]. **19th** [ABB93, FL08].

2001 [AAC+01]. **2002** [B+02]. **2004** [SC04]. **2005** [SC05]. **2006** [ACM06]. **2007** [ACM07]. **2008** [ACM08, Neu10]. **2011** [SM09, SM11]. **20th** [KU09]. **21st** [ACM94a, AP10]. **22nd** [ACM95a, GM11]. **23rd** [KS12a]. **27th** [KP15].

3.0 [BWN08]. **30th** [IEE89]. **31st** [IEE90, KLB12]. **32** [Gro91a]. **33rd** [IEE92]. **34th** [IEE93]. **36th** [IEE95a]. **38th** [IEE97]. **39th** [IEE98].

40th [ACM08]. **4th** [Apo93].

5 [B+05]. **50th** [IEE09]. **5PM** [BEM+12, BEM+13]. **5th** [CG94b].

6 [IEE01a, IEE01d, IEE01c]. **68** [HK77]. **6th** [BGNP94, GU95].

'79 [Ng79]. **7th** [HM96, Hwa85, Win78].

'86 [Cha86, CVP86]. **'87** [ACM87, Ano87]. **'88** [IEE88]. **8th** [AH97].

'90 [ACM90a, WN90]. **90k** [Gro91a]. **'92** [ACM92b]. **'93** [ABB93, Bao93, SC93]. **'94** [ACM94a, ACM94c, BGG+94, SW94]. **'95** [ACM95a, ACM95b, IEE95b, Lev95, SC95]. **'96** [SC96]. **'97** [ACM97a]. **'98** [ACM98, SC98]. **'99** [SC99]. **9th** [FC98, FJ92].

A-DFA [BC13b]. **A.** [AFI98, Pet95]. **Aarhus** [AH97]. **Abstract** [CDL95, Gon02, HOS85b, JO97, LM02, Pre99, AG06, Chl08, CM95, GPN96, GV00, HOS85a, Pie08, Zei08]. **Abstracting** [JSH09]. **abstraction** [Wad87]. **Abstractions** [Jok90, MNS07]. **accelerated** [MLC08, SR16]. **Accelerating** [BBK12, LLCC13, TT82]. **Accelerator** [TLC15, TLLL09]. **Accelerators** [HKL+14, MGW14]. **acceptors** [TIT83]. **Access** [Fal85, JSH09, KCK93]. **accesses** [DSv94]. **accessible** [SBR+07]. **According** [PV91]. **account** [KSVJ15]. **achieve** [AK08]. **Acid** [CCL87]. **ACM** [ACM69, ACM74, ACM83, ACM84, ACM86, ACM87, ACM89, ACM90a, ACM90b, ACM91, ACM92a, ACM92c, ACM92b, ACM92d, ACM93a, ACM93b, ACM94a, ACM94c, ACM94d, ACM95a, ACM95b, ACM97b, ACM97a, ACM97c, ACM98, ACM99a, ACM99b, ACM00, ACM06, ACM08, DGBH93, FMA02, KLB12, Len11, SW94, Sto92]. **ACM-SIAM** [ACM97b]. **ACM/SIGAPP** [DGBH93]. **Acquisition** [BZ98]. **across** [DCM15, SHS14]. **action** [Han92]. **actions** [CK08]. **ActionScript** [BWN08]. **activity** [BWG12]. **ActorSpace** [AC93]. **Ada** [Wes97, Wes97]. **Ada/Tcl** [Wes97]. **Adapted** [RJK79]. **Adapting** [DS04]. **Adaptive** [CW84, JP73, NdMM02b, SRR92, SRR95, SW09]. **Adding** [Sha88]. **address** [AAK+09, AEK+11]. **addressable** [LMT16]. **Addressing** [RJK79]. **Adjeroh** [Neu10]. **Administration** [Sar02]. **Advanced** [B+07]. **Adversaries** [HL10, HT14]. **Advisor** [Mu 95, MuT95, Mun95]. **Affine** [DN77, VS01]. **afind** [GN01]. **Against** [Bun95, HL10, LA12, BSTU08]. **aggressive** [Dai09]. **Agrep** [MW92b, GN01, WM92b]. **Ahead** [Yan95]. **Aho** [CW13, NK07, PLL10, TM05b, TZH+13, TVCM12]. **Aid** [AC75]. **Aided** [KP15]. **Albuquerque** [ACM92a]. **Algebra** [KN12, SS93a, BFS00, Coo86, Fat15, KMMPN85]. **Algebraic** [ACM94b, Bro93, Cha86, Hea71, Lev95, McI85b, Ng79, WN90, BD98, Fat15, McI85a, OR11]. **Algebras** [CM95]. **Algol** [Bro77, HK77]. **Algol-based** [Bro77]. **Algorithm** [AR00, AJS92, ACD01, BST+03, BYN96, Bar81, BC13b, Ben94, BM77, Bra94, Bre93, BL16, CF06, CLP98, CF85, Col94a, CH02, CGH+98, FL12a, Gal79, GP90, Gal95, GC01, IMP01, IST05, IS86, KRS97, KST94, Kül10, KV15, KZ02, LLCC13, LCL06, MW94, MUHT96, ML96a, ML96b, Mye92, Mye98, NBY01, OR12, PS10, Pou93, PK85, RPE81, Ski98, SW09, Sun90, Tak86, VB12, VB98, WPKL13, Wat96, WMM95, Yam01, Alb89, AGW13, BGJ89, BG90, Bre96, BC95, Cha93a, CLS95, CW13, CDC96,

CNPS15, CR91, Dai09, DR06, DS04, Der95, Dow91, Gal92, GBY90a, GBY90b, GLS92, Han93, HFS05, HR03, IKX15, IP96, II86, ISHY88, KKM+85, KR89, KST92, Kim99, KKR+13, KIH15, LV86b, Lee82, Liu81, LHCK04, Maa06, MBY91, Mis03, MS95, Mye99, NRO12, Neb06]. **algorithm** [PLL10, PS90, Per94, Ryt80, SW90, SS94, SGYM00, Sto02, Tak96b, Tak93, TZYH14, TM05b, TU88, Tho68, WW03, Wat03, YT03, YHV+15, ZC99, dB93]. **algorithme** [Alb89]. **Algorithms** [ACM97b, AHU74, ALR08, iA94, ADLM96, BY96, BLP94, BS97, BH02, BJM79, BCFL12, CL92, CHL14, Chu95, CHZ06, CLR90, CR92, CCG+94, DB86, FL12b, Gal76b, GG97, GS85, GIG77, GK86, Gus97, Hig86, HSTS01, ISNH94, JTU96, KTU87, KR81, KR87, KP99c, Kha16, KMT+01, Lab12, Lec95, LT16, LS94, Lut02, MP05, Mut97, Ott94, Par96, Pol13, RS98, SV94, SN92, Sed83, Sed90, Sim94, Tar81a, VG01, YD95, ZZ12, de 82, ALP04, ADLM01, ARS16, BYF96, Bak93, Bar84, CMO+08, CDDM05, CLT07, CWZ10, CCG+93, CT96, CR94, CL96, DC94, ECSS88, Gal75, Gal76a, Gal84, GG13, Ind98, JU91, KN00, Lec07, MAC14, MW92b, Mha05, MM07, MR13, NR02, Par98, PDC94, QLY07, Sal12, Sch91a, Sch91b, SZ05, Tan14, Val09, VHL+12, WZ96, A+08, Len93]. **Alignment** [BLP94, Ben94, BDFW94, HPM94, JWZ94, KK08, LPT12, LPR+08, Pol13, RND97, CLT07]. **Alignments** [Cha94]. **All-Against-All** [LA12, BSTU08]. **Allocation** [VSM87, YD95]. **Allowing** [FNU02, CCF13, WM92a]. **Allows** [Man94, Man97]. **Almost** [CGPS13, GR99]. **Almost-linear** [CGPS13]. **Almost-optimal** [GR99]. **Alphabet** [AFM94, ABF94a, CR95b, KR94, TP97, AFI98, AGM05, GP92]. **Alphabet-Independent** [CR95b, KR94, GP92]. **Alphabets** [Bre94a, CLP98, Fre02, KT06, KST12, STK10, Cro92b, Fre03, YHV+15]. **Alternating** [BL16]. **Alternative** [Bar81, JWZ94, AP90, Fat15]. **Alto** [IEE93, IEE98]. **Amar** [Neu10]. **Ambiguity** [MGH93]. **ambiguous** [NdMM02a]. **American** [NEH90]. **Analysing** [HH93a, HH93b]. **Analysis** [AHU74, AJS92, BBH+87, FO76, GBY90a, KR92, Les95, Liu88, LS94, Par96, Par98, SJ13, SCFC94, Sca11, SWZ01, WCW82, Yan95, DSv94, GLS07, GBY90b, HV93, MAC14, MP09, MLM+08, NA90, SW93, TPT13]. **analyst** [ZV97]. **analytical** [Bar84]. **analyze** [CFM00]. **analyzer** [ZGE85]. **Analyzing** [HSTS01, MNNS12]. **ands** [Edw07]. **animate** [BYF96]. **annotated** [GGN06, RH81]. **annotation** [YCJK08]. **Annual** [ACM81, ACM87, ACM92a, ACM93a, ACM97b, ACM00, ACM08, AP10, AH97, AT02, FC98, FL08, FJ92, GM11, HM96, IEE90, IEE92, IEE93, IEE95a, IEE97, IEE98, IEE09, KS12a, KU09, Len93, LV06, MZ07, NEH90, ACM74, ACM76, ACM84, ACM86, ACM89, ACM90b, ACM91, ACM92d, ACM93b, ACM94d, ACM95c, ACM97c, ACM99b, AL01, Apo92, Apo93, ACP05, BYCC03, CG94b, DT87, GU95, GS00, IEE89, IEE95b, PC99, SMD04]. **Answer** [KKSL01, ADT15]. **Answering** [KKSL01, ZCÖZ12, AL08, CDL08, CKC07]. **Answers** [Ano92a]. **Antidictionaries** [STSA99]. **Antisymmetric** [Gil70]. **Antonio** [IEE94b]. **ants** [Joh01]. **any** [PW93]. **Application** [GPP04, GT90, Hud89, IK83,

MKF91, MGW14, NA90, WKA94, Akl78, CFK07, Fat15, Lau00, Man76, MW94, MM03, SHS14, TIAY90, WKR09, dLFM07]. **application-database** [SHS14]. **application-specific** [WKR09]. **Applications** [BM00, Brz62, CL94, Gia93, GV05, HSTS01, Hui92, HN05, IEE94b, IEE95b, IIK08, MHKR12, Pol13, Sch95, AS04, Bak93, B+07, Che96, FMdB99, FG99, FLSS93a, FLSS93b, GV00, Ind97, KKP92, RTO15, SR16, SWZ01, VHL+12, WYA+07]. **Applied** [DGBH93, PDL98, DGBH93]. **Applying** [AK08, SdM01]. **Approach** [ABF94a, CCH09, Cox09, DC94, FKRV15, FL12b, IMR08, KTSA99, LP13, Lut02, NR98, NR99b, RM88, Sha93, Tar81b, B+05, BYG92, BSTU08, FMdB99, GPR95b, GW92, Goo05, HLN09, LBK08, Mus03, dSOMY15, PP85, SVS97, SD91, Sri93]. **Approaches** [BM08, vNG01, FBMA05, MR13]. **Approximate** [Aku94, Aku95, AAK+09, AEK+11, ACD01, BYP92, BYN96, BYN97, BYN98, BYN99, BCP02, BH02, BM00, BK93d, Bun95, CJM12, CLS+10, CL90, CL92, CM94, CL94, CCH09, CN02, CH02, CIM+02, EMC96, FNU02, Fre06, Fu96, GP90, GIMV03, GGF13, HD80, HLS07, HM00, HHLS06, HN02, HN05, IMP01, JTU96, KM92, KM95a, KST16, LSW08, LH03, LP11, LLW+15, MW92a, MW92b, Mel95, MM02, Mye98, MOG98, Nav98, NBY99a, NBY99b, NBY01, Nav04a, OM88, PMD01, Par96, PW95, Phi94, PP09, STK10, ST95, ST96b, ST04, Tak94, TU93, Ukk92, Ukk93, UW93, VRD01, Wri94, WM92b, WMM95, ZMAB03, van14, AGW13, BYP96, BLPL92, BFG09, CRV06, DLF+15, DC94, FN04, HLS+11, HFN05, Hyy08, JU91, KST92, KWL07, KNT11, LV86b, LV89, LT97, LLL13]. **approximate** [MW94, MM03, MM07, Mus05, Mye99, Nak14, NBY99c, Nav00, NKT+01, Nav01a, NF04, NC06, Par98, Sad93, SW90, TLS16, WC14, ZD95]. **Approximated** [PW93]. **Approximately** [Cob94, Mye95]. **Approximating** [TY97]. **Approximation** [ADLM96, ADLM01, BLP94, CM08, KR89, KWL07, TU88]. **April** [ACM74, ACM84, ACM90a, AGS93d, Apo92, SC93, SC96, SC98, SC02]. **Arabic** [Kul11, Mus03, Mus05, ZA87]. **arbiters** [SMT+86]. **Arbitrary** [Nav04a, YH92]. **arc** [GGN06]. **arc-annotated** [GGN06]. **Architectural** [CL09, IS90]. **Architecture** [BTC06, CG87, CF85, HKL+14, LHCH93, Lee09, TS05, YP12, FKSB06, KRL87, MM07, ZV97]. **Architectures** [TVCM12]. **Arden** [LHCH93]. **area** [SV87]. **Ariel** [Han92]. **Arithmetic** [Hwa85, MHKR12, MP88]. **Arizona** [Apo92, ACM97a]. **Array** [CPW88, GHK+91, LK90, WBA83, DK13, ME97, MM07, LK88]. **Arrays** [AOK02, ABM08, GV05, Neu10, Bak78, CR91, DSv94, GV00, HHLS06]. **arrivals** [SWZ01]. **Art** [DGBH93]. **Artificial** [IEE94b]. **ASCII** [Pol01]. **Asia** [IEE94a]. **Asia-Pacific** [IEE94a]. **Asilomar** [CG94b]. **Aspects** [FJ92]. **Assembly** [MW92b, Sno01, FL71]. **assertional** [PS90]. **assertions** [Jay92]. **assessment** [HBRV10]. **assignments** [Mor02]. **assist** [KKM+06]. **Association** [DT87]. **Associative** [Eke95, YIAS89]. **Associative-Commutative** [Eke95]. **Astronautics** [WKA94]. **Asymmetric** [QWX+13]. **asymptotic** [KC11]. **Athens** [Len11]. **Atlanta**

[ACM83, ACM99b, IEE09]. **Atlas** [TMV+01]. **Atoms** [Les79]. **attribute** [Har02]. **Attributed** [CTF+98, Gro92]. **attribution** [Far92]. **Audio** [DCM15]. **Audit** [KNMH00]. **Augmented** [SA96]. **August** [ABB93, BGNP94, B+02, IEE95b, WN90]. **authenticated** [PPTT15]. **Authorizing** [WYA+07]. **Automata** [Ant95, Cha02a, CLOZ04, DM11, FL12a, Ghi62, Gol93, GH13, GH15, HSW97, KPR97, KPR00, KV15, LT16, Loh10, MS98, MHKR12, MHT09, MY60, Mel95, Moh97, MR09b, NR98, NWE97, Ned98, Pet92, RS59, SM56, SM74, She59, SSSS10, Sim94, UW93, BDFR08, BS86, BH96, BK93c, CR87, GOMSJVGP08, HW07, HM00, HR00, Kle56, Lau00, NR00, NWE99, NdMM02a, NK07, Pet94, Ryt89, SY72, SBR+07, SH85, VW11, YH91, YB13, ZZH16]. **automata-driven** [NWE99]. **automata-like** [YH91]. **Automated** [Bun94, Bun94]. **Automaten** [SM74]. **Automatic** [BA06, DMWW77, KP93, RTO15, SWY75, SMS15, WKR09, Ear74, MR09a, PS93a]. **Automatically** [CGP+08, Kuk92, Mor02, SdM01]. **Automating** [Kah06]. **Automaton** [CZ01, GJ16, LY86, Ant96, BYG96, COZ09, Hur84, Lei80, TLLL07, TLLL09, ZC99]. **automaton-matching** [TLLL09]. **availability** [LLL12]. **Average** [FN04, HKN14, NF04, Sal12, SCFC94, CGR99, GFG11, Quo92]. **Average-case** [HKN14, SCFC94, Quo92]. **Average-optimal** [FN04]. **Avoiding** [Fos89, Thi93]. **aware** [WOQ+07]. **AWK** [Mis89]. **AWK-like** [Mis89]. **Axiom** [Ano68, JT94]. **axiomatization** [HN11].

B [Pet95, FG99, FV16]. **B-Tree** [FV16, FG99]. **Back** [GH15, ESL89, Lar98]. **background** [RH81]. **Backing** [BAP06]. **Backtracking** [FKP77]. **backward** [Sal12]. **Bad** [Len93, MLM+08]. **Baeza** [Hyy08]. **Baeza-Yates** [Hyy08]. **Balancing** [MM02, MM03]. **Baltimore** [ACM90b]. **Banff** [A+08]. **Barcelona** [LV06]. **Base** [IEE01a]. **Based** [AOK02, BL16, CDM11, CZCD09, D'A98, FL12a, GR96, HH83, Kid09, KKSL01, KVX12, KNMH00, LT09, LS94, Lut02, MU02, Mye98, ND02, PS10, SF01, TMV+01, TK07, WPKL13, WD99, WZU14, Yun12, AFI98, ARS16, BC06, BFS00, CW13, CLP95, CK08, DLF+15, Far92, Gan89a, Gre88, Ier09, IIK08, II08, KS07, KN00, LLL12, LHCK04, MLC08, Mye99, NRO12, PD12, SZ05, TM04, TP07a, TP07b, TPT13, WL15b, WSW16, YT03, ZV97, ZZ12, ZYX+12, Ano96, Bro77]. **Bases** [AAC+01, B+02, Gon83, ABB93]. **Batched** [Man86]. **Bayesian** [SD91]. **Be** [Cox07, LY86, PW93, Sch91a, Sch91b, AK09b]. **Beach** [HM96, CVP86, IEE97]. **Beam** [DMWW77]. **beams** [NA90]. **Beautiful** [OW07]. **BEG** [ESL89]. **Beginning** [JNS08]. **Behavior** [CDM11, Wei83, LYWL08]. **Beijing** [ACM07, Bao93]. **Bell** [Neu10]. **Berkeley** [ACM86]. **Best** [Ben94, BK93d]. **Best-First** [BK93d]. **Better** [Gon02]. **Between** [Pre99, BGJ01, LSV08, Rot91]. **bible** [Blu08, BWN08]. **Bibliographic** [AC75, CPW88]. **bibliography** [RH81]. **bidirectional** [KH06, KST16]. **big** [Sch81]. **billion** [SWW+12]. **Binary** [BFKL13, GHLW15, Bra90, GG13, LMT16]. **binding** [Wes97]. **binoid** [HWJ03, HSJ04]. **binoids** [HSJ04]. **Bioinformatics** [Gon02]. **Biological**

[CL94, Lut02, YDDB15, ECSS88, NR02]. **Biology** [Lab12, Gus97, Val09]. **Biometrics** [Rei03]. **Bipartite** [Eke95]. **bisimulation** [BCG07]. **Bit** [CF06, CHL14, GF08, HN02, HN05, KKK11, Kül10, Mye98, NR98, TBS06, TLS16, AAK+09, CL09, GS93b, HFN05, Hyy08, KVX12, KIH15, Mye99, NR00]. **Bit-Parallel** [CF06, CHL14, HN02, HN05, Kül10, NR98, GF08, TLS16, Hyy08, KIH15]. **bit-parallelism** [HFN05, NR00]. **bit-serial** [GS93b]. **Bit-Split** [KKK11, TBS06]. **Bit-Vector** [Mye98, Mye99]. **bits** [AEK+11]. **Bitwise** [KF91]. **biXid** [KH06]. **Blackboard** [DJ96]. **BLIM** [Kül10]. **Blindfolded** [EF13]. **Block** [LT97, Chr96, HFFA09]. **block-interchanges** [Chr96]. **Blocked** [FTJ95]. **Blocking** [Bon07]. **Bloom** [MA12]. **Bluetooth** [LTL04]. **BNF** [Man06]. **board** [AAB+86]. **Body** [JM85, BWG12]. **body-worn** [BWG12]. **bonds** [PS89]. **BonXai** [MNNS12]. **Book** [Hum97, Neu10, Uma97]. **Bookshelf** [BF97, Lut02]. **Boolean** [SJ13]. **Boomerang** [BFP+08]. **Boosting** [CDL+15, LLW+15]. **bottom** [BDB90, CPT92, Cha87]. **bottom-up** [BDB90, CPT92, Cha87]. **Bound** [BG92, GK86, Les94, BG91, GZ10, Ind98, Lif03, LP08]. **boundaries** [SHS14]. **Bounded** [Dur94, BFK+03, CR95a, FK96, KNT11]. **Bounds** [CM08, Col94a, CHPZ95, CH97a, GG91, GG92, GHW05, KS94, BCT93, CJPS13, CH92, Shi97, SV87]. **Boyer** [Ber00, Col94a, DR06, EMC96, Gal79, NT05, Ryt80, STK10, Sto02, Tak96b, TU93, WW03]. **Brain** [TMV+01]. **brains** [Joh01]. **Branching** [Dur94, BK86]. **Bridging** [BGJ01]. **British** [ACM92d, ACM08, MG94]. **Bruijn** [Sri88]. **Brute** [GHK14]. **Brute-force** [GHK14]. **BSR** [Sto96]. **BST** [SCFC94]. **BUFFERS** [Duf82]. **Building** [BC06, GHK+91, DF00]. **Burrows** [Neu10, ABM08, ZMAB03]. **buses** [KRL87]. **business** [BJK+12]. **buts** [Edw07]. **BWT** [AMB+02, FBMA05]. **BWT-transformed** [AMB+02]. **byte** [TMK+02].

C [Eck89, GS93b, Hol84, KOI94, Mad01, Mis89, OK94, Sed90, SDS14, SM04, Stu07, Wea94]. **CA** [CG94b, KP15, ACM92b]. **Cache** [FV16, HLS+11, TLC15]. **Cache-Oblivious** [FV16, HLS+11]. **caches** [HFFA09]. **Caching** [PS10]. **CADE** [Bun94]. **CADE-12** [Bun94]. **calculi** [Dow91, Dow93]. **Calculus** [For02, CFK07]. **California** [ACM69, ACM86, ACM92c, ACM93b, ACM95a, ACM95b, HM96, IEE93, Sto92, IEE98, USE92]. **Call** [Jon07]. **Call-pattern** [Jon07]. **calls** [FF08]. **Camera** [LT90b]. **Can** [Cal00, Cox07, Sch91a, Sch91b]. **Canada** [ACM92d, ACM94d, ACM08, A+08, GS00, MZ07, Lev95, MG94]. **Candidates** [MUHT96]. **Cannot** [LY86, PW93, JL93]. **Capabilities** [Cal00, Fri97b]. **Captions** [GR96]. **Capturing** [MCF+11]. **Car** [KK02]. **Care** [Aku94, Aku95]. **Cares** [BL94, KR97, MBY91, NR17]. **Carolina** [ACM93a, IEE89]. **Carte** [yWL12]. **Cascaded** [GC01]. **CASCON** [BGG+94]. **Case** [CCL87, FTJ95, Gal79, JM85, PV91, Shi92, Duf82, Fen01b, GF08, HKN14, KT90, Quo92, SCFC94, SKS96]. **Cases** [ALLL98a, ALLL98b, BAC06]. **Categorical** [LT90a, TG96]. **Categories**

[Kul11]. **CAV** [KP15]. **Cell** [AK09b, Sca11]. **Cell/B.E.** [Sca11]. **Center** [ACM89, Bao93]. **Centric** [TLC15]. **CGI** [Han01]. **CGOOD** [TG96]. **Chain** [MNS10, LBK08, SMT+86]. **Chalmers** [AJ89a, AJ89b]. **change** [Joh94a]. **Character** [CLP95, Dav73, HZ13, HH93a, HK77, TMK+02, Wol86, CT96, HH93b, Per94, Vin77a, Vin77b]. **Characterisation** [KST12]. **Characteristic** [ISNH94]. **Characteristics** [HH83]. **Characterization** [HEWK03, BCG07, IMS97, VW11]. **Characters** [Aku94, Aku95, Mha05, GH82]. **Charleston** [ACM93a]. **Chart** [Mu 95, MuT95, Mun95]. **Charts** [GM02]. **Checking** [FF08, Gin67, HN00, MW94, NRO12]. **Chemical** [Les79]. **Chicago** [ACM06]. **China** [ACM07, B+02]. **Chinese** [GWvG10, GH82, HZ13]. **chip** [CDC96, SV87]. **Chips** [TLC15]. **Choices** [LD10, LS99]. **Choosing** [LLL12]. **Chord** [YJ84]. **Chromosome** [KS94]. **Church** [KKM+85]. **Circuit** [PM78]. **Circuits** [Brz64a, Brz65, FU82]. **Circular** [CHL14, LA12, Boo80]. **cities** [Joh01]. **Class** [EU98, Kin92, Kul11, SA96, Sch13, BAC06, CRV06, Kod79, Pie08, Wal89]. **classes** [Lei85]. **Classic** [HSTS01, RB05, MAC14]. **Classification** [Bon07, Lee91, WZJH12, LMT16, TZH+13]. **Clients** [CDM11]. **clone** [Joh94a]. **Closed** [Kul11]. **Closed-Class** [Kul11]. **Closest** [KF91]. **Closure** [LMN16, AS85, Jed87, Lee82, LH03]. **Cloud** [CDM11]. **cluster** [MM03]. **clustering** [KAT07]. **Coconut** [AK09b]. **Code** [AGT89, Cox12, Fra83, GFH82, GHF83a, GHF83b, Gie90, ND02, RTT02b, SED14, VSM87, WNL+83, AG06, BDB90, CLS95, FHP92, Gan89a, GHS82, HV93, MSRR00, NAR08, OW07]. **code-generator** [FHP92]. **Coded** [BG95, Chu95, BC95]. **Coder** [MP88]. **Codes** [YK11, Bra90, Mei08]. **Coding** [CW84, Dav73, JSC83, Kid09, Ind97, MP88, Shi97]. **Cognitive** [PW06]. **cohabit** [Wad87]. **coinductive** [HN11]. **Collage** [IST05, KMT+01, KMS+03]. **collections** [BC13a, CHLS07, CMRV10, HAI02, WL15a]. **Colony** [ACM83]. **Color** [Hui92]. **Columbia** [ACM92d, ACM08, MG94]. **Com** [Lia84]. **Com-pu-ter** [Lia84]. **Combating** [KEG+08]. **combinator** [Sta89]. **Combinatorial** [BM08, Cro92a, GIMV03, Mei08, SLTB+06, Val09, WCM+94a, WCM+94b, CDDM05, HLN09, AL01, AP10, Ano92b, Apo92, Apo93, AH97, AT02, ACP05, BYCC03, CG94b, FC98, FL08, GU95, GS00, GM11, HM96, KS12a, KU09, LV06, MZ07, PC99, SMD04, Lab12]. **combinators** [LT90a]. **Combining** [Ber00, HBRV10, NR00]. **command** [Blu08]. **Comments** [Akl78, ZZ12, Gro91a]. **Common** [Ale94, IF94, DK13, FGKU15, Gra15, Maa06, Mid98, TU88, Mu 95, MuT95, Mun95]. **Commonwealth** [ACM89]. **Communication** [Bao93, HSL10]. **Commutative** [Eke95, HY92]. **Compact** [Asp12, HAR10, NR01, Ric79, YP12, ZZH16, BFC08]. **CompactDFA** [BBHK14]. **Comparative** [JM85, PSK08]. **Comparator** [Bur84, Bur82]. **Comparing** [Hua94]. **Comparison** [BCT98, JTU96, Lav91, de 82, Bar84, BCT93, CT96, ECSS88, FBMA05, SVS97]. **Comparisons** [Bre93, CL92, GPR95a, Liu86, Bre96, PW06]. **Compatible** [LT09].

Compilation [FU82, KTU87, Ses96, AP90, Dan91, KGP+05, Sch88]. **Compiler** [AJ89b, GFH82, Pet92, vNG01, AJ89a, FKSB06, HWF90, Jør92]. **compiler.kit** [Abb77]. **compilers** [BGNP94]. **Compiling** [AU72, AU73, PS93b, Sch99, GHR+16]. **Complement** [GN12, Rob79]. **Complete** [Ano68, BBH+87, Pet02, Kin91]. **completeness** [TCC91]. **Complex** [Gor00, LR14]. **Complexité** [Alb89]. **Complexity** [BKLP97, BDFW94, BCT94, BCT98, Col94a, CHPZ95, CH97a, EZ74, GG91, GG92, GK86, GH15, Hei01, HK11, HSTS01, MNS10, Mor83, RS98, Akl78, Alb89, AK12, CGK08, CH92, CGG90, FCFM00, FK96, KS07, LM12, LM13, LMN16, Mag81, Man76, NF04, PS89, PAG09, Sal12, Via04, Yao79]. **components** [CFM00]. **Composite** [XK92]. **composition** [SV09]. **Comprehension** [BLS+94]. **Compress** [GH82]. **Compressed** [BR09, BA16, BKLP97, CHLS07, CLS+10, CHP92, FT98, FV16, FT04, GP01, GP03, Gaw12, Gaw13, GV00, GV05, IST05, KTSA99, Kid09, KS05, KS06, LSW08, Loh10, Man94, Man97, MHT09, MHM+01, NR99b, Nav01c, Rao95, STSA99, TMK+02, YK11, ZMSD93, ABF94b, BCD98, BFG09, BBK12, CP97, FT95, GR99, GO12, HHLS06, KTS+98, KMS+03, NKT+01, NT05, SNZBY00, TM04, TM05b, TM05a]. **compressible** [BFKL13]. **compressing** [WL15a]. **Compression** [ABM08, BC13b, CW84, FG89, GS85, How97, LS94, Man94, Man97, Neu10, RPE81, SKF+00, SC93, SC95, SC96, SC98, SC99, SC01, SC02, SC03, SC04, SC05, SM09, SM10, SM11, ASG99, AGS96, BFNP10, Cha93b, CDC96, CL96, How96, Lar99, OW03, RTT02a]. **COMPSAC** [IEE95b]. **computable** [EH88]. **Computation** [Bro93, COZ09, Cha86, Lev95, Ng79, Rao94, WN90, CCI+13, Han02, Maa06, NA90, PS93a, Tak96b, YT03, ACM94b]. **Computational** [Lab12, Gus97, HN11, Val09, Via04]. **Computationally** [HT14]. **Computations** [FKP77, CR91, NEH90, Pra97, PCS99]. **compute** [MS95]. **Computer** [ACM89, AHU74, Bao93, Cop91, FJ92, Hea71, Hwa85, CVP86, IEE89, IEE90, IEE92, IEE93, IEE95a, IEE95b, IEE97, IEE98, IEE09, Kül10, RJK79, SS93a, Coo86, Fat15, Gus97, II09, Ker04, SS94, VVV04, Win78, iA94, KP15]. **Computer-Recognized** [RJK79]. **Computing** [ACM69, ACM74, ACM76, ACM81, ACM84, ACM86, ACM90b, ACM91, ACM92d, ACM93b, ACM94d, ACM95c, ACM97c, ACM99b, ACM00, ACM08, CZ01, Cha94, DT87, DGBH93, HM98, HM87, ISNH94, LK90, Rot91, RW10, Wol90a, BGNP94, BC95, IP96, LK88, Wol90b]. **Concave** [KM92, KM95a]. **Conception** [Hud89]. **Concepts** [BGJ01]. **concise** [BNSV10, NdMM02a, Yod91]. **concrete** [JD89]. **Concur** [SBF80]. **Concurrent** [GR92, Pel87, SBF80, BFN+09, JM90, YT03]. **condition** [Han92, KT90]. **Conditional** [DJ96]. **conditionals** [Edw07]. **Conduct** [NCKL14]. **Conference** [ACM89, ACM92c, ABB93, AGS93d, Ano87, AAC+01, AOV+99, Bao93, B+02, Bun94, FMA02, CVP86, IEE94a, IEE94b, IEE95b, KP15, MG94, SW94, Sto92, SC93, SC95, SC96, SC98, SC99, SC01, SC02, SC03, SC04,

SC05, SM09, SM10, SM11, USE92, DT87, ACM69, ACM74, ACM76, ACM81, ACM92a, ACM93a, ACM94a, ACM95a, AGS93a, AGS93c, AGS93b]. **Conferencing** [Sch95]. **Configurable** [ACF05]. **Configuration** [Sch95]. **Conflicts** [YD95]. **Conjunctive** [CDL08, FLS98]. **connected** [Joh01]. **connectivity** [Sri88]. **conquer** [SW12, SHCY93]. **consecutive** [KKR+13]. **Consensus** [BDFW94]. **Considered** [Sym85]. **Consistency** [ZCS+12, AL08]. **Consistent** [PW93, MAI+16]. **Constant** [BGG12, CGG+97, CGH+98, CGR99, Gal95, GPR95a, Sto96, BGM13, Gal92]. **Constant-Space** [GPR95a, CGR99, BGM13]. **Constant-Time** [BGG12, CGG+97, Gal95, Gal92]. **constants** [KC11]. **Constrained** [CS11, CLT07, XJT+04, ZJL14]. **Constraint** [Coh90, CFK07, Smi91]. **Constraints** [GRS99, ZGS+15, CDL08, HW09, KS11a]. **constructability** [Kar82]. **Constructing** [IY02, Lei80, JRV96, TU88, TTHP05]. **Construction** [BP63, BH96, DKP11, FCFM00, Kos94, Mei08]. **Constructions** [Ant95, Ant96, Che96]. **constructive** [Tak96a]. **Containing** [HJ99, CFM00]. **Containment** [FLS98, CDL08, HN11, SH85]. **content** [LMT16, MLC08, TLLL09]. **content-based** [MLC08]. **Context** [CK02a, Haz01, Hua94, Kea91a, SBHM94, SA96, KGA+12, Mye95]. **Context-Free** [SBHM94, KGA+12, Mye95]. **Context-Sensitive** [SA96]. **Continental** [Bao93]. **Continuous** [SBF80]. **Control** [Bao93, Mu 95, MuT95, Mun95]. **Controlled** [NAR08]. **Convention** [ACM89, Bao93]. **Conversion** [GJ16, HZ13, Lau00]. **Convert** [CM86, ZC99]. **converting** [Gal75]. **convolution** [Ind98]. **Convolutions** [ALR08]. **Cookbook** [ST03, GL12]. **coordinated** [Mid98]. **coordination** [CFM00]. **copattern** [RTO15]. **coprocessor** [TLLL07]. **Coq** [MPdS12]. **Corasick** [CW13, NK07, PLL10, TM05b, TZH+13, TVCM12]. **Core** [TLC15, MAC14]. **corpus** [IIK08, II08]. **corpus-based** [IIK08, II08]. **correct** [Ryt80]. **Correcting** [Kuk92]. **Correction** [And02, Bur84, JP73, RJK79, Wag74, BSY00, Mae90, MS95, TIAY90]. **Correctness** [Sto02, SBR+07]. **correlated** [SWZ01]. **Correlation** [KC99, Sha93, WZJH12, PPZ08]. **Correspondence** [Spi99b]. **corresponding** [Lif03]. **Corrigendum** [FLSS93a]. **Cortical** [TMV+01]. **cosine** [TP07a, TP07b]. **costs** [PW06]. **Counter** [WPKL13]. **Counter-Based** [WPKL13]. **Counters** [LT09]. **Counting** [GGM12, San95, Gel10, Nic03]. **course** [HR00]. **Covered** [Yun12]. **Covering** [CIK98]. **covers** [IP96, MS95]. **Covert** [HL10]. **CPM** [AL01, AP10, Apo93, AH97, AT02, ACP05, BYCC03, CG94b, FC98, FL08, GU95, GS00, GM11, HM96, KS12a, KU09, LV06, MZ07, PC99, SMD04]. **CREW** [dB93]. **Critical** [Lut02]. **Crochemore** [Bre93, Bre96]. **Crochemore-Perrin** [Bre93, Bre96]. **Cross** [FTJ95, KNS12, Sha93]. **Cross-Correlation** [Sha93]. **Cross-Document** [KNS12]. **Cross-Interferences** [FTJ95]. **Crowd** [CDL+15]. **Crowd-Sourcing** [CDL+15]. **Cryptanalysts** [GS93a]. **CTL** [MMDdJ11]. **CTRL** [MMDdJ11]. **Cube** [ML96a, Dow91, ML96b]. **Cuckoo** [TK07]. **curly** [HSW97]. **curve**

[SA77]. **Curved** [LT90b, NA90]. **Custom** [Han01, Vol12]. **Cut** [AM97, CK04]. **CVPR** [CVP86]. **Cycle** [KK95]. **cyclic** [Mae90].

D
[SHCY93, ASG99, BSM+07, BZ98, CJ93, LT90b, Mun07, TCCK90, ZLN11]. **D-pattern** [ASG99]. **DAGs** [ZZ12]. **daisy** [SMT+86]. **Dallas** [IEE95b, NEH90]. **Dark** [Hum99]. **Darmstadt** [AGS93d]. **Data** [ABM08, AAC+01, BLLW12, B+02, BGNV10, Bon07, CW84, DT87, EF13, FG89, FO76, FMA02, Gia93, GG97, Gon83, GS85, Har02, KM94, LSW08, LKL02, LM01b, LS94, MMS14, Neu10, Pre99, RPE81, Sli78, SW94, Sto92, SC93, SC95, SC96, SC98, SC99, SC01, SC02, SC03, SM09, SM10, SM11, TV14, VMML15, WCM+94b, YDDB15, ABB93, AL08, BGHZ15, BFP+08, BFS00, Cha93b, CDC96, CD96, FG99, GMC02, GW92, GS93b, GPN96, GHS12, HN90, HSL10, JO97, JD89, Kra08, Lar99, LWS+16, Nil90, OR11, RW93, RM06, SMS15, SG16, TG96, Wad87, WCM+94a, SC04, SC05]. **Data-Parallel** [VMML15, MMS14, GS93b]. **data-parallelism** [RW93]. **Database** [ACM83, ACM90a, ACM92b, ACM94c, ACM95b, ACM97a, ACM98, ACM99a, ACM06, ACM07, CCL87, HAI02, VB98, GPTV93, IIK08, KLB12, Len11, OKT92, SHS14, SR16, ZCÖ09, KKP92]. **Databases** [AOV+99, CCH09, GNU94, Pou93, WZS95, ZCÖZ12]. **Dataflow** [PK85, Ray96]. **Datalog** [dLFM07]. **Dates** [SM99, HN00]. **dbC** [GS93b]. **DC** [ACM84]. **DCC** [SC98, SC04, SC05, SC93, SC95, SC96, SC99, SC01, SC02, SC03, SM09, SM11]. **DDC** [SM10]. **Dead** [Cox10c, MD10]. **Death** [CGP+08]. **Debugging** [MLM+08]. **December** [A+08, IEE94a]. **decentralized** [SMT+86]. **Decidability** [Asp12, Kar82, San15]. **Deciding** [Gaá04, MPdS12]. **decipherability** [AG84]. **Decision** [MNS10, RS59, HW09]. **Declarations** [MGH93]. **Declarative** [ADR15, Spi99a, Spi99b, KLR+08]. **Decoding** [Sto96]. **Decomposition** [KVX12, PS93b]. **deduction** [Bun94, HR03]. **Deep** [CMS08, LLLL08, VWR11, YP13, ARS16, BAC12, NYuR15]. **Definable** [BLSS03]. **definition** [Yod91]. **definitional** [CKC07]. **Definitions** [IEE01a]. **deformation** [BCWG09]. **Degenerate** [IMR08]. **degree** [HY90, LSV08, YH91]. **degrees** [YH92]. **del** [ACM69]. **deletes** [Mei15]. **Denmark** [AH97]. **denoising** [CDDM05]. **Denotational** [Gud92, Mal93]. **denoting** [HSJ04]. **Dependence** [KK95, AFM94]. **dependences** [BD98]. **Dependent** [Hua94]. **Dependently** [Xi03]. **depth** [Alb89]. **Derivation** [Mis03, BGJ89]. **Derivatives** [Ant95, Brz64b, CJM12, CDJM15, Ant96, ORT08]. **derived** [PS90]. **derivors** [Gie90]. **Described** [KPR97, KPR00, SA96]. **DescribeX** [CMRV10]. **description** [CDL08, FKSB06]. **Descriptional** [GH15, LMN16]. **Descriptions** [KRS95, KRS97, SC88]. **Descriptive** [GR96]. **descriptor** [All82]. **Design** [AHU74, Bur84, HL97, OF61, Ski98, ZA87, Bur82, CMS08, Hur84, KCK93, MI07, SW12, WKR09]. **designers** [LS99]. **Designing** [II09, Mor83, SB09, DC94]. **desukutoppu** [SM04]. **Detecting**

[Mut97, TMV+01, Mar89, Mha05]. **Detection** [CZCD09, KKK11, KNMH00, Lee91, Les79, PAMP12, Sli83, TS05, ZLN11, ACF05, BAC12, FNP09, Joh94a, KOI94, KAT07, LHCK04, OK94, QLY07, SA77, TBS06]. **Determinism** [GGM12]. **Deterministic** [BGNV10, BKW92a, BKW92b, GZ94, GMS12, Ind97, KV15, LY86, Ned98, TLLL07, VW11, Vis90, Vis91, BS86, GHR+16, Lau00, LMN16, NdMM02a, SV09]. **developers** [LS99]. **Developing** [MNNS12]. **Development** [JLHB92, LHCH93]. **Developmental** [YCJK08]. **Developments** [PV91, OKT92]. **Devices** [HAR10, Sym85, CMS08, Pet07]. **DFA** [BC13b, CP97, NYuR15, NR01, PW93, VWR11]. **DFA's** [CHP92, FDG+11]. **Dictionaries** [Bre94a, Owo93]. **Dictionary** [And02, Bre94a, Bun95, KS11b, KS12b, AF92, DLF+15]. **dictionary-based** [DLF+15]. **Dictionary-Matching** [Bre94a]. **Diego** [ACM92b, ACM93b, Sto92]. **different** [YB13]. **Differential** [FDG+11, PS93a]. **Differentiated** [ZLN11]. **differentiation** [PS93a]. **Digest** [CZCD09]. **Digital** [AGS93a, AGS93c, AGS93d, AGS93b, JRV96]. **Digitized** [LV94]. **dimension** [Bak78]. **Dimensional** [ABF94a, ADLM96, BYN98, BKLP97, CDEK95, CL95, CHLT14, CR92, CR95b, CGPR95, CGH+98, CIK98, FU98, FNU02, GPP04, Gia93, GG95, GG97, HEWK03, HW12, KPR97, KPR00, KU99, KR94, Les79, Les95, Par96, ZT89, AK08, AF92, ABF94b, ABC+04, AKT06, AGM05, ADLM01, BYR93, Bir77a, CGK08, CGR93, CR94, GP92, HLN09, JKNS00, Mid96, NBY99a, Par98, TIT83, WC14]. **dimensions** [CCG+93, dRL95]. **Directed** [Fu95, Fu96, Fu97, Gud92, Kor83, BÖ13, Dan91, Nil90]. **Directly** [Man94, Man97]. **Directory** [Zve80a, Zve80b]. **Discontinuities** [Lee91]. **discourse** [Kit94]. **Discovering** [SW93]. **Discovery** [VG01, WCM+94b, MP05, WCM+94a, WZS95]. **Discrete** [ACM97b, Gim73, KC99, Nak14]. **Discrimination** [KC87]. **Disease** [TMV+01]. **Disease-Specific** [TMV+01]. **Disjoint** [LS10, YD95]. **Disjunctive** [HR03]. **disordered** [CGM10]. **dispatch** [MFRW09]. **dispatching** [FMdB99]. **Distance** [BCP02, D'A98, KS94, RKH02, ZCÖ09, AEP06, AK12, AD11, BC95, CM07, EH88, GF08, HKN14, Leu97, PPZ08, Rot91, SKS96]. **Distance-join** [ZCÖ09]. **Distorted** [VB98]. **Distortion** [KC87]. **Distributed** [CPW88, IMR08, ML96b, NCKL14, TVCM12, ZLN11, AC93, DSv94, FWW12, HFFA09, LLC03]. **Distributed-Memory** [TVCM12]. **Distribution** [YJ84]. **Diversified** [FWW13a]. **Divide** [SW12, SHCY93]. **Divide-and-conquer** [SHCY93]. **Dividing** [KKK11]. **DNA** [HAI02, IMR08, MT14, TP97, YT03]. **DNA/RNA** [IMR08]. **do** [Abb77, JL93]. **do-it-yourself** [Abb77]. **d'objets** [Alb89]. **Document** [BK93a, BKW92c, FKRV15, KNS12, All82, Arn93, BK93b, KRML09, WZS95, WCW82]. **Domain** [CF85, SKS96]. **Donald** [Neu10]. **Done** [LY86]. **Don't** [Aku94, BL94, Aku95, KR97, MBY91, NR17]. **doubling** [CL09]. **down** [GOMSJVGP08]. **DReX** [ADR15]. **Drive** [KK02, BC06]. **driven** [GHS82, Mus03, NWE99]. **Drosophila** [YCJK08]. **DTDs** [BNSV10]. **Dublin**

[ABB93]. **Duration** [XJT+04]. **Duration-constrained** [XJT+04]. **during** [Sch81]. **Dynamic**
[AGT89, ALLS07, BSM+07, BFNP10, CL95, Mye98, Sch95, WBA83, ZLN11, BD98, CHLS07, CGM10, FhDAF09, HSL10, JSH09, LYWL08, Mye99]. **Dynamics** [JM85].

ECG [TZH+13]. **Edinburgh** [AOV+99]. **Edit**
[JWZ94, RKH02, AEP06, AK12, BC95, CM07, Leu97, LT97, QWX+13, SKS96]. **editing** [DOS93]. **Editor** [Pik00, Ritxx]. **Editorial**
[AGS93a, AGS93c, AGS93b]. **education** [Ker04]. **effect** [Mha05]. **Effective** [AG06, FKSB06, ZGS+15, KC11, PC02, ZKA12]. **effectively** [ADT15]. **effectiveness** [BSY00]. **Efficiency** [ALR08, San15]. **Efficient**
[AC75, ACR01, ALV92, ALLL98a, ALLL98b, BDB90, BC13a, BA15, BC13b, Ben94, BBH+87, Bra94, BC94, BG95, CF06, CCF13, COZ09, CGR02, CDDM05, CCI+13, CLT07, EMC96, FT04, FM06, GC01, GP01, GP03, Gaw12, GLS07, Gon83, Gue90, HL10, HW12, KR81, KR87, KRS97, KS94, KKK11, Kos89, LV86a, LP13, LKL02, LTL04, MK90, MHT09, NWE99, NdMM02a, NK07, Owo93, PAMP12, PDC94, QLY07, SA96, SWW+12, TZYH14, Yun12, AB09, CPT92, CGR03, CW13, CD96, Cox10b, ESL89, FNP09, FHP92, GPR95b, GL89, GLS92, LV86b, Lee82, Maa06, NAR08, PLL10, QWX+13, YKGS11, YB13, YHV+15, ZKA12, ZYX+12]. **Efficiently** [ADR15, DF00, Kim99]. **Eighteenth** [ACM86, ACM99a]. **Eighth** [ACM97b, B+02, ACM76]. **Electron** [DMWW77]. **Electron-Beam** [DMWW77]. **Element** [MGH93]. **Eleventh** [ACM92b]. **eliminants** [AS85]. **Elimination** [Han13b, CK04]. **Embeddable** [Fri97b]. **embedded** [TLLL07, TLLL09]. **Embedding** [BDFR08, Fu97, ZCÖZ12]. **embeddings** [CMO+08]. **Emergence** [Joh01]. **Empirical** [CL92]. **emptiness** [Kar82, Rob79]. **empty** [Zia96]. **emulator** [VVV04]. **enabling** [AB09]. **encoded** [DS04, KS01]. **Encoding**
[HAR10, KR92, RTT02b, Yun12, FDG+11, KR89]. **end** [JLHB92]. **ends** [ESL89]. **Engine** [CZCD09, Hab04, VCS+12, BC06, CW13, WL15b]. **Engineering** [Bao93, FHP92, IEE94a]. **Engineers** [NEH90, Lut02]. **engines** [TBS06, ZV97]. **enough** [MR09a]. **ensembles** [Alb89]. **entails** [Kar82]. **entire** [YCJK08]. **entity** [DLF+15]. **entrophy** [KS96]. **Entropy** [YDDB15, CR95a]. **Entropy-Scaling** [YDDB15]. **enumerative** [Tan14]. **Environment** [LHCH93, LZ96, MM02, SBR+07]. **Epoch** [OSM94]. **Epsilon** [GJ16, HSW97]. **Epsilon-Free** [GJ16, HSW97]. **Equality** [Gin67]. **equally** [NCV10]. **Equation** [CZ01, COZ09, NC92]. **Equational**
[OND98, AFI98, DL03, NWE99, RW93]. **Equations**
[HOS85b, Ver70a, ZGS+15, HOS85a, KGA+12, Sta89, Ver70b]. **Equivalence** [Asp12, HSJ04, Hir96, KN12, MPdS12, SA77, MAI+16, SH85]. **Erdos** [AW89]. **EREW** [PDC94]. **Ergodic** [Shi92, ST96a]. **Errata** [Ver70a]. **Error** [RJK79]. **Error-Correction** [RJK79]. **errors**
[AAK+09, BLLP90, KNT11, San95, WM92a]. **ESA'93** [Len93]. **Espoo**

[GU95]. **essentially** [GHK14]. **Estimating** [TP07a, TP07b]. **Estimation** [KC87, JKNS00, KS96, TCCK90]. **Euclidean** [GK86]. **EUODHILOS** [OSM94]. **EUODHILOS-II** [OSM94]. **European** [Len93]. **EUROSAM** [Ng79]. **EUUG** [Ano87]. **Evaluating** [ADR15, SSSS10, LM12]. **Evaluation** [BC13b, Cha02a, D'A98, GL01, Ses96, VB98, YJ84, ADR03, ADR06, BSY00, CD89, DR06, Hur84, Jay92, JLFL14, Jør92, KEG+08, MM03, PSK08, Smi91]. **even** [LR14]. **event** [CK08]. **event-processing** [CK08]. **Events** [CEW58, Kle56]. **EventScript** [CK08]. **everyone** [Nar91]. **Evolution** [Hud89]. **evolvable** [LLC03]. **Exact** [AOK02, BCT94, CHL14, CHPZ95, CH97a, FL12a, FNU02, GG91, GG92, MA12, PP09, ABH+14, Bak78, CH92, CGG90, ĎHPT10, FL13, Kar82, Lec07, NF04, QWX+13, Tan14, TZH+13, YHV+15]. **exact-match** [Bak78]. **example** [Qui00, Qui02]. **Examples** [Bra94, BC94, KK08, BGHZ15, GHS12, Kod79, SG12, SG16]. **exchange** [AL08, HSL10]. **EXE** [CGP+08]. **execution** [Han92, MZZ10]. **Exercise** [Wen93]. **exercises** [BH07]. **exhaustive** [IM13]. **Exit** [MOG98]. **Expanding** [Ham88, VHC88]. **Expansion** [CF85, Gue90]. **Expect** [Fri97b]. **Expected** [KU99, CL90]. **experiment** [GHS82]. **Experimental** [ACR01, GIMV03, HBRV10, Lec95, JLFL14]. **Experiments** [Lec98]. **expert** [WSS94]. **experts** [B+07]. **Explicit** [For02, CFK07]. **Exploiting** [Kul11, MKF91, KKM+06]. **exploration** [SW12]. **explorative** [Ker04]. **Explore** [Cop91]. **Exploring** [CMRV10, YB13]. **expressibility** [tC09]. **Expression** [Anoxx, Asp12, BC13b, Bon07, BTC06, CZ01, CJBW16, CKW09, Cox07, Cox09, Cox10a, Cox12, Dav99, EU98, GJ16, GRS99, Gol93, Han13a, Hol84, Ier09, KM92, KM95a, KN12, Lee09, LT16, MPN+14, Mye92, MOG98, NR99a, NR01, Nav01c, Nav04a, NR04, PPA10, Ric79, Sca11, SM99, VCS+12, WPKL13, WMM95, YP12, YQW+16, vNG01, BAC12, BFC08, BFG09, BFS04, BH07, COZ09, CJBW13, CLT07, CGPS13, Cox10b, DF00, FDG+11, Fos89, Goo05, HN11, HVP00, HP01, HVP05, KS08, Kar82, Ker07, Lee82, Lei80, Lif03, MMI14, ORT08, PCS99, RTO15, SJ13, Spe85, Stu03, Stu07, Tho68, WL15b, WW03, YKGS11, YCJK08, YB13, ZZH16, Zia96, ZC99, ZYX+12, dLFM07]. **Expressions** [AM91, Ano68, Ant95, Bac94, BF97, Ber00, BGNV10, Bra94, BC94, BK93a, BKW92c, Brz62, BP63, Brz64b, Brz64a, Brz65, CDLV99, Cam99, CSY03, Cha01, Cha02a, CLOZ04, CJM12, CDJM15, CGR02, CHP92, CC97, CDL95, Dav03, Dav04, DM11, FLS98, FU82, Fri02, GGM12, GN12, Ghi62, Gil70, Gin67, GH13, GH15, Hab04, HM98, Ham88, HWW06, Han13b, HJ99, Hir96, HK11, HSW97, Hum99, IY02, KT06, KTU87, Kea91a, KP99b, KP99c, Kin92, KV15, KZ02, KST12, LS99, LS06, LZHZ98, LM01b, LT09, Loh10, Mad01, MNS10, MY60, MR09b, MPdS12, Org03, OF61, Pak91, PM78, Pat71, Pet02, Pre99, Ray96, Rez92, SA96, Sch99, SSSS10, Sou99, TV14, TB00, Uma97, VHC88, Wen93, WZU14, XK92, Yam01, ZGS+15, AFI98, AGM05]. **expressions** [AM95, Ant96, AOMC07, ACM02, BCG07, BYG96, BRL13, BTG83a, BTG83b,

BDFR08, BS86, BNSV10, BK86, Bra95, BK93c, BK93b, CGR03, CP97, CK02b, CK08, DL03, EZ74, FL71, FHW10, Fri97a, Fri06a, GLRÁ11, GR92, Gel10, GL03, GL12, GMS12, GH09, Gue90, HW07, HY90, HWJ03, HSJ04, HN00, Jan85, JSH09, Joh69, Kah06, KGA+12, Kin91, Lar98, Lau00, Lei85, LWS+16, LR14, LM12, LM13, LMN16, Mag81, MMDdJ11, Mor02, MZZ10, Nic03, PC02, PIT+03, Pra97, Rob79, Rom14, Ryt89, San15, SMS15, Sha88, SY72, SH85, SM04, Stu07, SMT+86, XJT+04, YH91, YH92, tC09, Hum97]. **expressions-a** [BK86]. **Expressive** [BLLW12, HS08, MFRW09]. **Extend** [Cal00, dLFM07]. **Extended** [Ano68, BK93a, CTF+98, Gon02, HY90, HL97, KV15, KZ02, NR98, Yam01, YH91, YH92, AM95, BK93b, CM95, GV00, JM93, Rob79, SMT+86]. **Extendible** [vNG01]. **Extending** [AS04, DJ96, Jan85, Kea91a, MSRR00, PMS11, WLF14, Bak78]. **Extensible** [BAC06, SNM07, BFN+09]. **Extension** [Liu86, SNM07, MMDdJ11]. **Extensional** [DRW95]. **extensions** [Mis89, Wea94, WKR09]. **External** [GIK97, FG99]. **extracting** [BGHZ15]. **Extraction** [FKRV15, Kea91a, DLF+15, Kit94, KLR+08]. **extremely** [AK08].

FA [CKW09]. **faces** [KSWC93]. **Factor** [ACR01, YQW+16, BH96, HM00]. **factored** [Gue90]. **factoring** [DRSS96]. **FAdo** [MR05]. **fairness** [MMDdJ11]. **Fall** [KOI94]. **Fall-in** [KOI94]. **False** [Mut97]. **Fast** [ADR03, ADR06, BYP92, BYR93, BYP96, BYG96, BYN98, BC13b, BS97, BFC08, BM77, Bre95, BL16, BFK+03, Bun95, CLP98, CR95a, Chu95, Cob94, CP10, Cox07, CCG+99, FL12a, Fen01a, FNU02, Gal76b, GS80, Gia93, Gil85, HAR10, HS91, KST94, KKSL01, KMP77b, KMP94, KMP77a, KVX12, KNMH00, KRML09, LV89, Lec07, LT16, LCL06, Man94, Man97, MUHT96, MPN+14, Mye98, NR98, NBY99a, NR99a, NR00, NR01, Neb06, Ott94, OM88, PPA10, Quo92, Sen00, ST96a, SNZBY00, Sun90, Tar81a, Vis91, WM92b, WM92a, YKGS11, AK08, AG84, CDC96, CNPS15, CCG+93, Coo89, Der95, DC94, FDG+11, II86, KTP10, LHCK04, Mye99, NBY99c, Nav01b, PS90, RM06, RW10, SW90, Tak93, TLLL09, Vis90, WL15b]. **Faster** [ALP04, AKT06, BYN96, BYN99, CH02, DGM90, DGM94, Fre02, GZ94, HN02, Ind98, NKT+01, SB09]. **Fastest** [Col94b]. **feasible** [ATdM07]. **Feature** [Bac94, WSW16]. **features** [LR14]. **February** [ACM89, DGBH93]. **feed** [MA12]. **feed-forward** [MA12]. **feedback** [Joh95]. **few** [NR17]. **FFT** [SZ05]. **FFT-based** [SZ05]. **Fgrep** [Ash85]. **Fibonacci** [IMS97]. **field** [WSW16]. **fields** [CRV06]. **Fifth** [ACM06, ACM93b, AOV+99]. **File** [IK83, Man94, Man97, All82, KCK93]. **Files** [BH85, BBH+87, Man86, Pol01, TMK+02, ZMSD93, CEMW91, TM05b, TM05a]. **Filter** [CCH09, FU98, KNMH00, CMS08, ZC89]. **Filtering** [KVX12, KRML09]. **Filters** [WZJH12, MA12]. **Filtration** [PW95, ST96b, LLL13]. **Finding** [ALLT11, Ben94, Hig86, Iba97, KS11a, KF91, PRU11, VB98, ZD95, Lee82]. **Finite** [Ant95, Bow87, CLOZ04, CM58, FG89, Ghi62, Gol93, GH13, GH15, HSW97, KPR97, KPR00, KV15, LY86, Mel95, Pet92, RS59, vNG01, Ant96,

BDFR08, BK93c, Gaá04, HW07, Hur84, Kle56, Kod79, Lei80, MMS14, Ryt89, SLTB+06, SH85, VHL+12, VW11]. **Finite-State** [vNG01, Gaá04, HW07, MMS14]. **finitely** [AFI98]. **Finland** [GU95, KS12a]. **FIRE** [KS08]. **FIRE/J** [KS08]. **First** [BK93d, Len93, Wal89, ACM99b, BLSS03, BD98, BAC06, Pie08, IEE94a]. **First-class** [Wal89, BAC06, Pie08]. **first-order** [BLSS03]. **Fixed** [BYCMW94, CF85, KF91, ABH+14, GS81a]. **Fixed-Queries** [BYCMW94]. **Fixed-Size** [CF85]. **FL** [CVP86]. **FlashRelate** [BGHZ15]. **Flexible** [NR02, ME97, MM07, NR00, Nav01b, SNZBY00, Lut02]. **Florida** [IEE88, IEE97]. **Flow** [FO76, HEWK03]. **Fluorescent** [HFI+08]. **FLUX** [Che08]. **Focusing** [Kri09, Zei08]. **Font** [Wol86]. **force** [GHK14]. **Forecast** [CDM11]. **Forecasting** [SF01]. **foreign** [FF08]. **Forest** [VRD01]. **Foreword** [Cro92a]. **form** [Lar98]. **Formal** [AOMC07, BGJ89, CSY03, Coo89, FKRV15, MGH97, Pag78, ZA87]. **Formalisation** [WZU14]. **formalism** [CM90]. **formation** [Fos89]. **Formatter** [ZA87]. **forms** [AOMC07]. **formula** [KC11]. **formulae** [WD99]. **Formulating** [JM85]. **Fortran** [PCS99, Wea94]. **Forum** [Fra83, GHF83a, GHF83b, WNL+83]. **Forward** [Dur94, MA12]. **Forward-Branching** [Dur94]. **foundation** [Pie08]. **Foundations** [IEE89, IEE90, IEE92, IEE93, IEE95a, IEE97, IEE98, IEE09, Win78]. **Four** [Mye92]. **Fourteenth** [ACM87, ACM95b]. **fourth** [ACM92d, A+08]. **FPGA** [LT09, TK07, YP12]. **FPGA-Based** [LT09, TK07]. **Fragmentary** [HSTS01]. **fragments** [All82, KMMPN85]. **Framework** [DJ96, KK95, AS04, BYF96, DLF+15, KKM+06, KMS+03, TZH+13, ZKA12]. **France** [Bun94, KU09, Ng79]. **Francisco** [ACM92c, ACM95a, DT87, KP15, USE92]. **Free** [GJ16, HM98, HWW06, Han13a, HSW97, Joh69, SBHM94, HWW07, HY92, HSJ04, KGA+12, Lif03, Mye95, tC09]. **FREME** [WL15b]. **French** [Alb89]. **front** [JLHB92]. **Frontier** [CHZ06, D'A98]. **Fukuoka** [AT02]. **full** [KWLL08, OKT92]. **full-text** [KWLL08]. **Fully** [CDL95, IST05, GR99]. **Function** [AK09b, Ric79, CT96, FF08, GT90]. **Functional** [ACM92c, BK89, Hud89, Pou93, Che08, FHW10, HJW+92, Mal93, OR11, Sch88]. **Functions** [Sch91a, Sch91b, Dow93, Kod79, Yod91]. **functors** [dSOMY15]. **Fundamental** [Sym85]. **Further** [Gro91a]. **Fusion** [SdM01]. **Fuzzy** [GJ16, GN01, BC13a, WSS94, WLF14].

G. [Akl78]. **Gabriel** [Lab12]. **GADTs** [KSVJ15]. **gains** [KGP+05]. **Gap** [BGJ01, KM92, KM95a, ZKCY07]. **Gaps** [CIM+02, BGVW12]. **Gases** [Mun07]. **gear** [WOQ+07]. **gear-shifting** [WOQ+07]. **Gender** [Pak91]. **Gene** [Bon07, YCJK08]. **General** [MR92, NR99b, VCS+12, AAB+86, Cha02c, Sch91a, Sch91b, ZHWW12]. **general-purpose** [AAB+86, Sch91a, Sch91b]. **Generalization** [Shi00, Shi04]. **Generalized** [Abr87, BK86, GL86, Ham88, Hei01, Hir96, Hol84, MAI+16, OP16, VHC88, Wen93, FL71, Kin91, SW90]. **Generalizing**

[SKS96]. **Generated** [AK09b]. **Generating** [CGP+08, Jør92, BJK+12]. **Generation** [AGT89, GFH82, GWvG10, HKR92, Ker04, Pat71, SY72, BDB90, BA06, FKSB06, Gan89a, GHS82, KKP92, MSRR00, SMS15]. **generative** [KS08]. **Generator** [VSM87, CLS95, ESL89, FHP92]. **Generators** [Fra83, GHF83a, GHF83b, WNL+83, Gan89b]. **generic** [ZKA12]. **Genetic** [GC01, RND97, MMDdJ11]. **Genomic** [CCH09]. **Geometric** [AK09a, CK92, CDEK95, Ukk10, AK08, FMdB99]. **geometrical** [Akl78, HLN09, Man76]. **geometrically** [NA90]. **Georgia** [ACM99b, IEE09, ACM83]. **German** [SM74]. **Germany** [ACM87, AGS93d, Len93]. **Gestalt** [RM88]. **Gibbs** [CRV06]. **Given** [AW89, Lei80]. **Glanville** [MSRR00]. **Global** [ZCS+12]. **Glossary** [ZV97]. **Glossary-based** [ZV97]. **Glushkov** [ZC99]. **GNU** [OSM94]. **Goal** [Gud92, Nil90]. **Goal-Directed** [Gud92, Nil90]. **Going** [LS06]. **Good** [BC94, MLM+08, GPTV93, PVA+92]. **Google** [Cox12]. **GPP** [VCS+12]. **GPP-Grep** [VCS+12]. **GPU** [DK13, SR16, TLS16, ZS13, ZYX+12]. **GPU-accelerated** [SR16]. **GPU-based** [ZYX+12]. **GPU-to-GPU** [ZS13]. **GPUs** [ARS16, LLCC13, MAC14, YB13]. **Grace** [HNB+13]. **grading** [Mor02]. **Graham** [MSRR00]. **Graham-Glanville** [MSRR00]. **Grails** [JNS08]. **Gram** [ST95, HKN14, KST94, KWL07, KWLL08, Sal12]. **Gram/2L** [KWL07]. **Grammar** [Wat96, Man06, Wat03]. **Grammars** [BK93a, BKW92c, Pat71, SBHM94, BK93b, KGA+12, MMI14, SV09, SH85, Ier09]. **Grams** [ST04, STK06, Ukk92]. **Grand** [Bao93]. **Graph** [BLLW12, BGJ01, D'A98, Eke95, FLM+10, Fu97, KS93, RKH02, Zue96, A+08, BLR11, BSTU08, FWW13a, FWW13b, GPTV93, MCF+11, SW93, Sri88, TG96, ZCÖ09, ZCÖZ12]. **graph-oriented** [GPTV93, TG96]. **Graph-Structured** [BLLW12]. **graphical** [CMW87]. **graphics** [AK08]. **GraphLog** [CM90]. **Graphs** [BJM79, Fu95, Fu96, HPM94, MY60, TV14, WD99, BÖ13, SWW+12]. **great** [Sch81]. **Greece** [Len11]. **Greedy** [KR92, TU88]. **Grep** [VCS+12, Hol84, Nav01b]. **Groovy** [JNS08]. **ground** [KR95]. **Group** [DT87, KC99, GMC02]. **Grouping** [OR12]. **groups** [Joh69]. **guarantees** [FWW12]. **guards** [JM90, KSVJ15]. **Guessing** [Pak91]. **Guide** [GS93a]. **guided** [FhDAF09, Nav01a]. **Guidelines** [Anoxx, Dav99]. **Guild** [B+07].

Hairpin [CDJM15]. **Hamiltonian** [YT03]. **Hamming** [AD11, GF08]. **HAMPI** [KGA+12]. **Handwritten** [CLP95, SKS96]. **Hardware** [Bur84, HH83, HKL+14, Lee09, Lut02, MGW14, PK85, Rob92, AK08, ACF05, Bur82, FNP09, Hur84, KKM+06, MP88, MLC08]. **hardware-accelerated** [MLC08]. **hardware-assist** [KKM+06]. **Hardware-Based** [HH83]. **harmonic** [BCWG09]. **Hash** [CCH09, Dav73, RJK79, Sch91a, Sch91b]. **Hashing** [Bur84, CKW09, CG79a, CG79b, GIG77, Gri79, Har71, TK07, Bur82, Kim99, TLLL07]. **Haskell** [HJW+92, Jon07, Wen93]. **Hausdorff** [Rot91]. **Head** [LY86]. **heads** [JL93]. **height** [Tho81]. **helpful** [VVV04]. **Helsinki** [KS12a]. **Hershey** [ACM76]. **Heterogeneous** [MM02, MM03].

heuristic [BCD98, Mus05]. **Heuristics** [CIL+03, Han13b, KR92]. **Hierarchical** [GM02, IK83, Loh10, Coo89, KAT07]. **hierarchy** [Lar98]. **High** [BTC06, CGM10, Ear74, JGZL12, LK90, Lee09, LPT12, TS05, VCS+12, Wea94, YP12, Dit78, HC87, LH13, LK88, SW12, TLLL07, ZYX+12]. **High-level** [Wea94, HC87, SW12]. **High-Performance** [Lee09, YP12, CGM10]. **High-Speed** [LK90, VCS+12, LK88, TLLL07]. **High-Throughput** [BTC06, LPT12]. **Higher** [HW12, KU99, SdM01, Chl08, NRO12, OR11, Pie08, Zei08]. **Higher-Dimensional** [KU99]. **Higher-Order** [HW12, SdM01, Chl08, NRO12, OR11, Pie08, Zei08]. **Highly** [BKLP97, GHK+91, BFKL13, CDC96, MAC14]. **highly-threaded** [MAC14]. **history** [Ritxx]. **HMM** [SB09]. **Holism** [MMZ10]. **Holistic** [BKS02]. **Homology** [Zha07]. **Hong** [B+02]. **Honnef** [Len93]. **Horspool** [Neb06]. **Host** [ZS13]. **Host-to-Host** [ZS13]. **Hotel** [ACM83, Bao93]. **Hough** [KC87, SA77]. **HTTP** [BBK12]. **Huffman** [DS04, FT04, KS01]. **human** [KSWC93]. **Hy** [Lia84]. **Hy-phen-a-tion** [Lia84]. **Hybrid** [CLP95, LZHZ98, SF01, SW09, VB12, Gri85, LLL13]. **HydroJ** [LLC03]. **hyogen** [SM04]. **Hypercube** [Les94]. **Hypermedia** [LZ96]. **Hypertext** [ALL97, ALL00, Nav98, PK95, Nav00, SD91].

I/O [PSK08]. **IBM** [HKL+14, Wei84]. **ICL** [CPW88]. **Icon** [Gri83, Wal89]. **Iconic** [GL86]. **ID** [BCD98]. **Ideas** [Bee81, Wol90a, Wol90b]. **Identification** [Cob94]. **Identifying** [FLSS93a, FLSS93b]. **Identities** [McI85b, McI85a]. **idf}** [TP07a, TP07b]. **idiom** [KKM+06]. **IEEE** [Bao93, CVP86, IEE09]. **ifs** [Edw07]. **II** [AU73, OSM94]. **Illinois** [Hwa85, Hwa85]. **illustrating** [HWF90]. **Image** [How97, LV94, SN92, VB98, ASG99, AGS96, ZC89]. **Images** [GR96, KPR97, KPR00, KS06, How96, KS05, YCJK08]. **Imaging** [AGS93a, AGS93c, AGS93d, AGS93b]. **immersion** [HFI+08]. **impact** [NEH90, NCV10]. **Implement** [Cha01, Cha02a]. **Implementation** [Bar81, Gim73, Har71, HOS85a, HOS85b, MHT09, RND97, Vin77a, Vin77b, Yun12, AG84, Bro77, MK90, NK07, PLL10, PD12, PCS99, ZYX+12]. **implementations** [Nak14]. **Implementing** [AM91, Gri83, LT90a, BD98]. **implication** [LS10]. **Implicit** [Cha01, Cha02a]. **Imply** [Gal76b]. **important** [Jed87]. **Improve** [Bon07]. **Improved** [BFG09, CMO+08, CM08, GG86, GP90, Han13a, IS86, KV15, KZ02, LSW08, Nav98, Nav00, Pol13, Tan14, BC95, Oph89]. **improvement** [Cha87]. **Improvements** [CK92]. **Improving** [Bir77b, ĎHPT10, Gal79, Hyy08, NBY01, YQW+16]. **In-** [MPdS12]. **in-degree** [LSV08]. **inclusion** [CGPS13]. **Incomplete** [NCKL14, Ritxx]. **incorporate** [SKS96]. **Increased** [HFN05]. **Increasing** [HR00]. **Incremental** [FWW13b, HKR92, Mey85, ISHY88]. **Independent** [ABF94a, CR95b, KR94, GP92]. **InDesign** [Kah06]. **Indeterminate** [SW09]. **Index** [CGR02, CN02, Cox12, Gia93, Man86, Zve80a, Zve80b, All82, CGR03, HLS+11, KWL07, KWLL08, KST16, NC06, TPT13]. **index-sensitive**

[TPT13]. **indexed** [GMC02, GO12, Sen00]. **Indexes** [CLS+10, CHLS07]. **Indexing** [GL86, GV05, KKSL01, LMRT14, LM01b, NBY99b, SWY75, GV00, HAI02, SJ13]. **Indianapolis** [DGBH93]. **indirect** [DSv94]. **inductive** [CL09]. **Inference** [BNSV10, BGNV10, JM93, Van06]. **Infinite** [KT06, KST12, SMDS94]. **Infix** [HWW06]. **Infix-Free** [HWW06]. **Inflectional** [TB00]. **Influence** [FTJ95]. **Inform** [Gro91a]. **Information** [FKRV15, IEE01a, IEE01d, IEE01c, IEE01b, LZ96, MKF91, SD91, Sno01, Kit94, KLR+08, SHS14, SKS96]. **Informative** [IEE01b]. **inheritance** [Mor02]. **Inner** [BF97]. **Inputs** [CGP+08]. **Inspection** [LLLL08, VWR11, YP13, ARS16, BAC12, NYuR15]. **Inspired** [GWvG10, Pet92]. **instance** [FK96]. **instant** [Abb77]. **instructions** [KKM+06]. **Integer** [Nav04a]. **integers** [Mat94]. **integral** [EF95, SY72]. **Integrated** [BGG+94, FU82, WBA83]. **Integration** [Har79, Fat15]. **Intelligence** [IEE94b, Rob92]. **intelligent** [JLHB92]. **interaction** [HR00]. **Interactive** [Han02, MR05, BH07, DKP11, MI07]. **interchanges** [Chr96]. **interconnection** [KRL87]. **Interest** [DT87]. **interests** [SW93]. **Interface** [IEE01a, IEE01d, IEE01c, IEE01b]. **Interfaces** [IEE01d, PW06]. **Interferences** [FTJ95]. **interleaving** [Gel10]. **International** [ACM94b, ABB93, AGS93d, AAC+01, AOV+99, Bao93, B+02, Bro93, Bun94, FMA02, IEE95b, KP15, Lev95, Ng79, SW94, Sto92, WN90, A+08, BGNP94, MG94]. **Interpolation** [HW12, Lut02]. **interpretation** [HN11, JP11, NC92, SHCY93]. **interpretations** [MP09]. **Interpreter** [HOS85b, Mae94, Eck89, HOS85a]. **Intersection** [GN12, HL10, Pet02, CP10, Gel10]. **Interval** [Via02, Via04, WSS94]. **intractable** [FLM+10]. **Introducing** [LV86b]. **Introduction** [Bir77b, CM86, CLR90, GS93a, PG90, SC88]. **Intrusion** [CZCD09, KKK11, TS05, ACF05, KAT07, LHCK04, TBS06]. **Intrusions** [KNMH00]. **invalid** [SMS15]. **Invariant** [FU98, LT03, ZC89, Deo06, MNU05]. **Inverse** [AAL97b, GIK97, GHW05]. **Inversion** [KS94, Gie90, GT90]. **inversions** [CCF13, GFG11]. **Inverted** [BBH+87, ZMSD93, KWL07]. **invisible** [EHS07]. **Invocation** [Kor83]. **Involutions** [GMMN12]. **IO** [PSK08]. **Ireland** [ABB93]. **Irregular** [PCS99]. **Island** [ACP05]. **Isomorphism** [BJM79, Gro91a, Gro91b, KSH+15, Mäk89]. **Israel** [AL01]. **ISSAC** [Lev95, WN90]. **ISSAC'93** [Bro93]. **ISSAC'94.** [ACM94b]. **Issue** [Cro92a, IEE01a, IEE01d, IEE01c, AGS93a, AGS93c, AGS93b]. **issues** [IS90, San15]. **Istanbul** [SMD04]. **Italy** [AAC+01, Apo93, FL08, GM11]. **Iterable** [LM02]. **iterated** [Jan85].

January [ACM87, ACM92a, ACM93a, ACM94a, ACM95a, ACM97b, USE92]. **Japan** [AT02, IEE94a, WN90]. **Java** [Ano96, Cal00, CGM06, Dwe00, FR00, Hab04, LM02, MFRW09, Mor02, NAR08, SM04, Stu07]. **Java-based** [Ano96]. **java.util.regex** [Hab04]. **Jeju** [ACP05]. **Jersey** [FC98]. **Jerusalem** [AL01]. **Jigsaw** [BK93d]. **JMatch** [LM02]. **join** [WLF14, ZCÖ09]. **joins** [BKS02, JLFL14]. **Jose** [ACM95b]. **JPEG** [KS05, KS06]. **JTL** [CGM06].

July [AL01, AH97, AT02, Bro93, Bun94, Cha86, Cro92a, FC98, GU95, KS12a, KP15, Lev95, LV06, MZ07, PC99, SMD04]. **Jumbled** [BCFL12, GHLW15, BFKL13, GG13]. **June** [ACM92c, ACM92b, ACM95c, ACM98, ACM99a, ACM06, ACM07, AP10, Apo93, AH97, ACP05, BYCC03, Bun94, CG94b, FL08, FMA02, GS00, GM11, HM96, Hwa85, CVP86, KU09, Len11, Ng79, Sto92]. **JVM** [BFN+09].

K-M-P [RUG97]. **Karp** [CR91, GBY90a, GBY90b]. **Karp-Miller-Rosenberg** [CR91]. **Karp-Rabin** [GBY90a, GBY90b]. **Keeper** [Wei84]. **Kentucky** [ACM89]. **Kepler** [TLS16]. **kernel** [WKR09]. **Key** [CG79a, CG79b, Gri79]. **Keyword** [And02, ADT15, CWZ10, WZ96]. **Kiev** [Bro93]. **kinematics** [PS93a]. **Kleene** [Lee82]. **Kleenex** [GHR+16]. **known** [KCK93]. **Knuth** [PV91, Bar81, DS04, Ukk10]. **Knuth-Morris-Pratt** [Bar81]. **Kong** [B+02]. **Korea** [ACP05].

Laguna [HM96]. **lambda** [Dow91]. **lambda-calculi** [Dow91]. **Language** [ADR15, Ano68, Fre06, GS93a, GP93, GH09, Gud92, GR96, Hir96, LS99, Lut02, MGH97, SBF80, TB00, VVV04, vNG01, Arn93, BK86, BFS00, CFM00, CM86, CGM06, CK08, CMW87, FL71, FPD08, Fri97b, HJW+92, Jør92, KH06, Mal93, MLC08, RW93, RTO15, SC88, SNM07, YIAS89, Zia96, DWE89]. **Languages** [ACM92a, ACM93a, ACM94a, ACM95a, BLLW12, CM58, HWW06, Hud89, KT06, KP99c, Kor83, KST12, ND02, SA96, Sch13, Wag74, ACM87, AGM05, AOMC07, BRL13, BLSS03, BKW92a, BKW92b, Coh90, Dit78, FhDAF09, HWW07, HWJ03, HSJ04, HW09, Kes91, MZZ10, Mye95, PP85, Sch88, Smi91, dLFM07, BGNP94]. **Large** [AAC+01, AOV+99, BH85, B+02, LP13, VB98, ZMSD93, ABB93, BC13a, CD96, HAI02, LYWL08, Owo93, RW10, YHV+15, ZD95, ZCÖ09, ZCÖZ12]. **Large-Scale** [LP13, LYWL08]. **Larger** [GZ94]. **latch** [Fos89]. **Lattice** [Mun07]. **Law** [AW89]. **laziness** [KSVJ15]. **lazy** [Jay92, Jør92, AJ89a, AJ89b]. **Lazy-ML** [AJ89a, AJ89b]. **LDA** [YCJK08]. **Learning** [BGNV10, Bra94, BC94, Bra95, KK08, Kin92, KK02, Org03, PDL98, SPF08, SG12, ZCS+12, BC06, Ker04, VVV04]. **least** [Boo80, DK13]. **Left** [NWE97, Ned98, CWZ10, HR03, Tak96b]. **Left-to-Right** [NWE97, Ned98, Tak96b]. **legacy** [Joh94b]. **Leif** [SC88]. **Lempel** [BFG09, FT95, FT98, NR99b, Nav01c, NT05]. **Length** [BL94, Bre94a, Chu95, YJ84, ZGS+15, BFKL13, BGVW12, BC95, KR97, ZZH10]. **lengths** [KIH15]. **lenses** [BFP+08, FPP08]. **Less** [LMRT14]. **let** [MW92b]. **Lett.** [Gro91a]. **letter** [AGM05]. **Letters** [Ale94]. **Level** [JSC83, Dit78, Ear74, HC87, KWL07, dSOMY15, SW12, Wea94]. **levels** [Lar98]. **leverage** [LR14]. **Leveraging** [MGW14]. **Lexical** [HKR92, Yan95, ISHY88]. **Lexico** [KKSL01]. **Lexico-Syntactic** [KKSL01]. **Lexicographically** [Boo80]. **Lexicons** [ZMSD93, ZD95]. **Library** [AK09b, CL95, EU98, Ano01, Cox10b]. **life** [CM90]. **lightweight** [BFNP10, SNM07]. **Like**

[GHLW15, HK11, BTG83a, BTG83b, Mis89, YH91, Hol84]. **Lille** [KU09]. **Limitation** [Kül10]. **Limited** [HAR10]. **Line** [FG98, GG97, Lut02, Sno01, Tak86, Blu08, CLP95, CT96, FG95, Fre06, Gal75, Joh95, KNT11, NR02, Rot91, TIT83]. **Linear** [BJM79, Brz65, Cha94, Cha02b, CH03, CR95b, CGPR95, GS81a, LK90, LO94, Pat71, PRU11, RPE81, SSSS10, CGPS13, EH88, ETV88, GFG11, GMS12, HKN14, IKX15, KKR+13, LK88, Rep98, SGYM00]. **linear-space** [IKX15]. **Linear-Time** [CR95b, GS81a, HKN14]. **Linguistic** [Haz01]. **Linguistically** [GWvG10]. **Link** [LTL04]. **linked** [BAP06]. **Linux** [Blu08, Qui00]. **LISP** [ACM92c, JLHB92, Kod79, Mu 95, MuT95, Mun95]. **list** [dSOMY15]. **list-of-functors** [dSOMY15]. **listless** [Jay92]. **Lists** [Gil85, BAP06]. **Literary** [HSTS01]. **Literate** [Ham88, VHC88]. **Lithographic** [DMWW77]. **lithography** [SS93b]. **lives** [Joh01]. **Load** [MM02, MM03]. **Local** [ABH+14, CM94, DJ96, GHK14, MU02, ZCS+12, GS81a]. **Locality** [TLC15]. **Locality-Centric** [TLC15]. **locally** [Mei08]. **locating** [Mar89]. **Locations** [ST95, GS81a]. **Log** [DJ96]. **LOGCFL** [Pet02]. **Logic** [Bac94, GHK+91, Mae94, CDL08, Coh90, Smi91, TPT13, YIAS89]. **Logical** [CEW58, Wei84, PP85]. **logics** [LH03, Pel87, tC09]. **London** [MZ07]. **Long** [CLP98, Kha16, ML96a]. **Longest** [FGKU15, KR92, BBHK14, Gra15]. **Look** [Yan95, GPN96]. **Look-Ahead** [Yan95]. **lookahead** [BAC12]. **Loops** [BF97, FTJ95, KK95, BK86, RP95]. **Lossless** [How96, Cha93b]. **Lossy** [LS94, How96]. **Louis** [IEE90]. **Louisiana** [ACM91, ACM97b]. **Louisville** [ACM89]. **low** [LH13]. **Lower** [BG92, CHPZ95, GG91, GK86, AGW13, BG91, CJPS13, Lif03, LP08, SV87]. **lower-variance** [AGW13]. **LR** [LK06]. **LRPD** [RP95]. **Lyndon** [SMDS94]. **LZgrep** [NT05]. **LZSS** [LD10]. **LZW** [GR99, Gaw12, Gaw13, KTS+98, KTSA99, TM04, TM05b, TM05a]. **LZW-Compressed** [Gaw12, GR99].

M [RUG97, Ram94]. **Machine** [CG87, Cox09, AG84, Nak14, Ram94]. **Machinery** [DT87]. **Machines** [Bow87, BP63, Moo64, OF61, YD95, GOMSJVGP08, KAT07, MMS14, Yod91]. **Macsyma** [JM85]. **Madison** [FMA02]. **maintaining** [GO12]. **Maintenance** [MG94]. **make** [JT94, Mei15]. **makematch** [Kas08]. **Mäkinen** [Gro91a]. **Making** [ATdM07]. **Malay** [BSY00]. **male** [KT90]. **Malicious** [HL10, HT14]. **Manacher** [Akl78]. **Management** [DT87, FMA02, SW94, Sto92]. **manga** [QPWH08]. **Manipulate** [Ghi62]. **Manipulating** [VMML15]. **Manipulation** [Ng79, Wea94, GHS12, Mal93, MR05, RH81]. **Manual** [Mu 95, MuT95, Mun95, Ski98]. **Many** [TLC15, Wal88, MAC14]. **Many-Core** [TLC15, MAC14]. **Many-Sorted** [Wal88]. **maps** [BCWG09]. **March** [ACM83, IEE94b, SC93, SC95, SC96, SC98, SC99, SC01, SC03, SC04, SM09, SM10, SM11]. **Marina** [ACM69]. **Markov** [LBK08]. **Marseille**

[Ng79]. **Maryland** [ACM90b]. **Mass** [BM08]. **masses** [Vol12]. **Massive** [OR12, YDDB15]. **Massively** [CG87]. **Mastering** [Fri97a, Fri02, Fri06a, LR14, Rom14, Uma97, Hum97]. **Match** [GHW05, KR92, LD10, Mor83, Pet92, Ses96, VB98, Zve80a, Zve80b, Bak78, BBHK14, DWE89, KSVJ15, KCK93, Mei15, ZCÖ09, ZCÖZ12, HC87]. **Match-Bounds** [GHW05]. **Matcher** [HH83, Coo86, Ker07]. **Matches** [Dav73, KF91, Mut97, MOG98, PRU11, Mha05, Ukk92, ZD95]. **Matching** [AOK02, Abr87, ABM08, AC75, AGT89, Aku94, AR00, ACR01, ABF94a, AAL97b, ALL97, ALLL98a, ALL00, AAL+00, ALR08, AP10, Ano92b, Ano96, iA94, AT02, ADLM96, AW89, Ash85, AJS92, ACD01, BST+03, BYP92, BYCMW94, BYN96, BY96, BYN97, BYN98, BYN99, BEM+12, BCP02, Bee81, BH02, BH85, BKLP97, BL94, BM00, BBL93, Bow87, BG92, Bre93, Bre94a, BCT94, BG95, BCT98, BGG12, BG14, BTC06, BL16, BK93d, Bun95, BZ98, BGJ01, BCFL12, BCC+13, CCFG12, CF06, CDM11, CK02a, CLS+10, CL92, CM94, CL94, CCH09, CLP98, Cha02b, CN02, CTF+98, CZCD09, CHL14, CJBW16, CK92, CDEK95, CG94a, CLP95, CM08, CL95, Chu95, CW84, CHZ06, CJPS12, Cob94, Col94a, CHPZ95, CH97a, CH02, CH03, CHLT14, Col94b, CG79a, CG79b, Cox07, Cox09, Cox10a, Cox12]. **Matching** [CP91, Cro92a, CR92, CCG+94, CR95b, CGPR95, CGG+97, CGH+98, CIK98, CIM+02, CIL+03, D'A98, DB86, DLG12, DN77, DCM15, DGM94, Dwe00, EIV04, ETV88, Eke95, EMC96, EF13, FT98, FL12a, FL12b, FG98, FL08, FR00, For02, FU98, Fre02, FNU02, FT04, Fre06, Fu95, Fu96, Fu97, GHLW15, Gal76b, Gal79, GS80, Gal81, GP90, GG91, GG92, Gal95, GPP04, GC01, GPR95a, GIK97, GP01, GP03, GIMV03, Gaw12, Gaw13, GP93, GM02, Gia93, GG95, GG97, GM11, Gil85, GZ94, Gon02, GK86, Gri79, Gri83, GL01, Gro92, GL86, GV05, GMMN12, HD80, Han13a, Har02, Har97, HAR10, HL10, HT14, Haz01, Hea71, HEWK03, Hei01, HL97, HH93a, HO82, HSTS01, How97, Hui92, HW12, HN02, HN05, IS94, IMP01, IMR08]. **Matching** [IST05, IS86, IK83, JGZL12, JSC83, JTU96, KPR97, KPR00, KU99, KS12a, KR81, KR87, KRS95, KRS97, KP93, Kes79, Kha16, KTSA99, KMT+01, Kid09, KST94, KKSL01, KKK11, KS06, KS11b, KS12b, KM92, KM95a, KM95b, KMP77b, Kor83, KK02, KR97, KU09, KNS12, Kül10, KVX12, KNMH00, KC99, Lab12, LSW08, LV94, Lav91, LP13, Le 91, LM01a, Lec95, Lec98, LKL02, Lee09, LT03, Les95, Les94, LV06, LY86, LTL04, LLLL08, LA12, LLCC13, LP11, Liu86, Liu88, LM02, LT16, LCL06, LLW+15, LS94, Lut02, MZ07, Maa06, MS98, MKF91, MU02, MW92a, MW92b, MGW14, MHT09, MUHT96, McI85b, MPN+14, Mel95, Mey85, MM02, Moh97, MS01, ML96a, ML96b, Mu 95, MuT95, Mun07, MR92, Mut97, Mut00, Mye92, Mye98, Nao91, NR98, Nav98, NBY99a, NR99b, NBY99b]. **Matching** [NBY01, Nav04b, NWE97, Ned98, NdMM02b, ND02, NCKL14, OR12, OP16, Ott94, OM88, PDL98, PAMP12, PS10, PK95, Par96, PV91, PPA10, PW95, Phi94, Pol13, PP09, Pou93, PK85, PS93b, RR90, RR92, Rao95, RM88, RTT02b, RS98, Ric79, RKH02, RPE81, SV94, SMD04, STK10, SCFC94, SN92, Sca11, Sch95, SRR92, SRR95, Sha93, STSA99, SKF+00, Shi00, Shi04, Shi92,

SSSS10, Sim83, Sim94, SF01, SdM01, Sli78, Sli83, SW09, Som82, Spi99b, Sto96, ST95, ST96b, ST04, Tak86, Tak94, TMK+02, TS05, TZW94, TU93, TP97, TMV+01, TK07, TLC15, TVCM12, UW93, Ukk10, VSM87, VB12, VWR11, Via02, VG01, VRD01, Vis91, Vis99, VS01, WPKL13, WSW16, Wat96, WKA94, WD99, WBA83, Wri94, WM92b, WMM95, Xi03, YP12, YP13, YQW+16].
Matching
[YK11, YJ84, Yun12, ZZ12, ZS13, ZLN11, ZT89, Zue96, de 82, van14, yWL12, AMB+02, ADR03, ADR06, AK08, AK09a, Akl78, Aku95, Alb89, ACF05, ASG99, ALV92, AF92, AFM94, ABF94b, AAL+97a, ALLL98b, AL01, ALP04, ABC+04, AKT06, ALLS07, AAK+09, AEK+11, ABH+14, Ano01, AG84, Apo92, Apo93, AH97, ACP05, ADLM01, AGS96, AD11, AGW13, AG06, BFKL13, BYR93, BYP96, BYCC03, BSY00, Bak78, Bak93, BDB90, BCD98, BEM+13, BSTU08, BGFK15, BR09, BA15, BA16, BKBB+14, BLLP90, BLPL92, BFC08, BFG09, BGVW12, Bir77a, BGJ89, BÖ13, BBL98, Bra90, Bra95, BBK12, BBHK14, BG90, BG91, BCT93, Bre95, Bre96, BGM13, BKS02, BFK+03, BEL04, CGK08, CPT92, CCF13, CS98, CPW88, CF88, CK04, CGM10, CL90, Cha93b, Cha93a, Cha87, Cha02c, CRV06]. **matching** [CJ93, CR95a, CLS95, CDDM05, CW13, CJBW13, CNPS15, CH04, CS11, CR87, CWZ10, CJPS13, CDP14, CP10, CH92, CCG+93, CH97b, CGG90, CT96, CD89, Coo89, CM07, Cro92b, CGR93, CG94b, CR94, CL96, CGR99, CCG+99, CKC07, Dai09, DR06, DS04, DOS93, Deo06, Der95, Dij76, DijXX, Dit78, Dow91, Dow93, DC94, DGM90, ĎHPT10, FLM+10, FWW13a, FWW13b, FC98, FT95, FL13, Fat15, Fen01a, Fen01b, FG95, FMdB99, FDG+11, FBMA05, Fre03, FN04, FM06, Fri97b, Gaá04, Gal75, Gal76a, GS81a, GS81b, Gal84, GG86, GG87, Gal92, GP92, GU95, GPR95b, GR99, GU16, GS00, GGF13, GG13, GMC02, GW92, GBY90a, GBY90b, GPN96, GF08, GFG11, GGN06, GL89, GV00, HWW07, HY92, HLS07, HFS05, HC87, HR03, HH93b, HM96, HM00]. **matching** [HLS+11, HBRV10, HP01, HK77, How96, HLN09, HHLS06, HFN05, Hyy08, IIT13, IS96, Ier09, Ind97, Ind98, IS90, IIK08, IM13, II86, ISHY88, JM93, JP11, JL93, Joh95, Joh94a, JU91, KTP10, KSVJ15, Kas08, KN00, Kes91, KTS+98, KMS+03, KST92, Kim99, KWL07, KEF+14, KNT11, KS01, KS05, KMP94, KMP77a, KS96, Kos89, Kos94, Kri09, KKR+13, KST16, KGP+05, KT90, LV86a, LV86b, LV89, Lar99, Lec07, LLC03, LH13, LH03, LS10, LP08, Liu81, LHCK04, LBK08, LO94, LT97, LLL13, MCF+11, MK90, MNU05, Man76, MBY91, MMZ10, ME97, MAI+16, MP05, McI85a, MM03, MM07, Mis03, MHM+01, MR09a, MA12, Mun95, Mus03, Mus05, Mye95, Mye99, NYuR15, Nak14, Nar91, NBY99c, NR00, Nav00, NKT+01, Nav01a, Nav01b, NR02, NF04, NT05, NC06].
matching [Neb06, NWE99, NdMM02a, NC92, NR17, NK07, Nil90, OK94, dSOMY15, OR11, Oph89, OW03, PS89, PLL10, PPTT15, Par98, PS90, PC99, PP94, Per94, Pet07, PMS11, PPZ08, PDC94, Quo92, RM06, RTT02a, RUG97, RTO15, Sad93, SVS97, STK06, Sal12, SW90, Sch81, Sch91a, Sch91b, Sch88, SZ05, Sen00, SS94, SGYM00, ST96a, Shi97, Sil77, SR16, Smi91, SDS14, SHCY93, Spe85, Spi99a, Sri93, SA77, Sto02, SWW+12, SV87,

SNM07, Tak96b, Tak93, TBS06, TZYH14, TM04, TM05b, TM05a, Thi93, TIT83, TLS16, TLLL07, TLLL09, TCC91, Ukk92, Ukk93, Val09, Van06, VW11, Via04, Vin77a, Vin77b, Vis90, Vol12, Wad87, WZS95, WGMH13, WLF14, WC14, WL15b, WZ96, WW03, Wat03, Wea94, YKGS11, Yao79, YT03, YB13, ZMAB03, ZZH10, ZZH16, ZYX+12, dB93, dRL95]. **Matching** [GH82, JD89, Neu10]. **Matching-Based** [CZCD09]. **matchings** [Iba97, RW10]. **matchlib** [Ano01]. **material** [RH81]. **Mathematica** [Har97, Mae94]. **mathematical** [Rev91, Win78]. **Mathematics** [HM87, WSS94]. **Matos** [Pet95]. **Matrices** [CIK98, Gia93, PRU11, Lee82]. **Matrix** [FTJ95, TZW94, Kar82]. **Matrix-Vector** [FTJ95]. **Max** [IMP01, WPKL13]. **Max-Shift** [IMP01]. **Maximal** [BJM79, IF94, IS86, Rep98, Che96, II86, Ukk92]. **Maximal-munch** [Rep98]. **Maximum** [ADLM96, OP16, ADLM01, LMMN07]. **May** [ACM69, ACM74, ACM76, ACM81, ACM84, ACM86, ACM90b, ACM91, ACM92d, ACM93b, ACM94c, ACM94d, ACM95b, ACM95c, ACM97a, ACM97c, ACM99a, ACM99b, ACM00, ACM08, Apo92, DT87, KLB12, SW94]. **Mean** [Alb89]. **Means** [Ray96, SS93a, OW03, WD99]. **Measurement** [Lee91]. **measures** [EZ74]. **Mechanical** [NEH90]. **mechanics** [NEH90]. **mechanized** [Chl08]. **meet** [KSVJ15]. **Meeting** [NEH90]. **Membership** [GM02, KZ02, Loh10, Pet02, MW94]. **Memory** [KKK11, LP13, Lec98, TVCM12, FG99, JSH09, LH13, LMT16, Nak14, PLL10, YKGS11, YIAS89, ZYX+12]. **Memory-Efficient** [KKK11, LP13, PLL10, YKGS11]. **Merging** [Kit94, LK06]. **Mesh** [BM00, DKP11]. **Meshes** [CG94a]. **MeshFlow** [DKP11]. **Message** [GM02]. **META** [Kes79]. **META/REDUCE** [Kes79]. **Metamorphosis** [KV15]. **metasystem** [GT90]. **Method** [CLP95, Hua94, LPT12, NBY99b, RJK79, SV94, WZJH12, FMdB99, GPR95b, Ker04, LLL13, MP09, TIAY90]. **Methods** [Fal85, GIMV03, SBHM94, BSY00, Per94, SHCY93, TTHP05]. **Metric** [BCP02, CN02, ZCS+12, EH88, Mag81, NC06]. **Metrics** [LP11]. **Mexico** [ACM92a, BYCC03]. **MFC** [AS04]. **Miami** [CVP86, IEE97]. **Michoacan** [BYCC03]. **Microcomputers** [ZA87, ZGE85]. **Miller** [CR91]. **Milwaukee** [ACM81, IEE95a]. **MIN** [WPKL13, YD95]. **MIN-MAX** [WPKL13]. **Minimal** [IF94, Ned98, YD95, BH96, KS11a]. **Minimization** [Moh94, ND02, TZW94, AYCLS02, Kra08]. **Minimum** [PW93, Rot91]. **Mining** [GRS99, ZKCY07, MR13]. **Minneapolis** [ACM94c, SW94]. **Minnesota** [SW94]. **Miranda** [Tur86]. **mismatch** [AEP06, Neb06]. **Mismatches** [AW89, AJS92, BST+03, ALP04, Der95, FGKU15, GG86, GG87, GU16, GGF13, Gra15, GL89, LV86a, NR17, SZ05]. **Missing** [DCM15]. **Mission** [Lut02]. **Mission-Critical** [Lut02]. **Missouri** [IEE90]. **mixture** [Oph89]. **ML** [AJ89a, AJ89b, Ses96]. **MMDBS** [DWE89]. **MN** [ACM94c]. **mobile** [CFM00]. **Modal** [Yod91, tC09]. **Model** [GWvG10, MGH93, MGH97, PP09, SWY75, SCFC94, AB89, Liu81, NRO12, Tak96a, TG96]. **Modeling** [Haz01, SBHM94]. **Models** [BZ98, CDL95, A+08, Coo89, CKC07, LT97, Nak14]. **modification** [Sch81].

modified [Leu97]. **Modular** [LP13, dSOMY15, MFRW09]. **Modulated** [AEMS14]. **monadic** [TPT13]. **monads** [PMS11]. **monitors** [ATdM07]. **Monoids** [DM11, HY92]. **Montreal** [ACM94d, GS00, Lev95]. **Moore** [Ber00, Col94a, DR06, EMC96, Gal79, NT05, Ryt80, STK10, Sto02, Tak96b, TU93, WW03]. **Moore-style** [WW03]. **Morelia** [BYCC03]. **MorphJ** [HS08]. **morphology** [Mus03]. **morphology-driven** [Mus03]. **Morris** [Bar81, DS04, PV91, Ukk10]. **most** [FL13, GFG11, HY90, LR14, YH91]. **motif** [Tan14, YHV+15]. **Motion** [KC99]. **motivate** [Fla88]. **moves** [CM07]. **moyenne** [Alb89]. **MPI** [MM02, MM03, PSK08]. **MPI-IO** [PSK08]. **MR** [Gro91a]. **MRCSI** [WL15a]. **MS** [VWR11]. **MS-DFA** [VWR11]. **MT** [ZV97]. **Mukherjee** [Neu10]. **Multi** [CJ93, FMdB99, GG95, GG97, Har02, LT03, LT90a, NBY99a, OR12, TMK+02, WSW16, Alb89, ARS16, CPT92, CCG+99, ETV88, JKNS00, KTP10, OW03, YT03]. **Multi-attribute** [Har02]. **Multi-byte** [TMK+02]. **Multi-combinators** [LT90a]. **Multi-Dimensional** [GG95, GG97, NBY99a, JKNS00]. **Multi-field** [WSW16]. **multi-linear** [ETV88]. **Multi-matching** [CJ93]. **Multi-method** [FMdB99]. **multi-pattern** [Alb89, CPT92, CCG+99, KTP10]. **multi-resolution** [OW03]. **multi-striding** [ARS16]. **multi-string** [YT03]. **multi-text** [YT03]. **Multi-Threading** [OR12]. **Multi-Track** [LT03]. **Multi-view** [CJ93]. **Multicast** [Sch95]. **multicharacter** [CW13]. **Multicore** [YP13, ZLN11]. **Multidimensional** [SN92]. **Multidisciplinary** [Kni89]. **Multidisk** [KCK93]. **multihead** [CR87, Pet94]. **multilingual** [ZV97]. **Multimodal** [BWG12]. **Multipattern** [STK06, Yun12, ZS13, BBK12]. **Multiple** [BYN97, BLP94, CF06, CJPS12, FL12b, Gaw12, IS94, IS96, KTS+98, KMT+01, LT90b, LBK08, Mut00, OR12, PW95, SVS97, TM05b, VWR11, CK02b, Dai09, Fen01a, FN04, HFN05, KGP+05, KIH15, Maa06, Mha05, NF04, PC02, PW06, WL15a, WZ96, ZC89]. **Multiple-pattern** [TM05b]. **Multiple-Stride** [VWR11]. **multiplexing** [Quo92]. **Multiply** [FTJ95]. **Multiprocessing** [WBA83]. **multiprocessor** [Vin77a, Vin77b]. **Multiterm** [Bur84, Bur82]. **Multiview** [ZCS+12]. **munch** [Rep98]. **Munich** [ACM87]. **Music** [Cop91]. **Musical** [Cop91]. **Myhill** [WZU14].

Names [VB12]. **Nancy** [Bun94]. **nanolithography** [SS93b]. **narrowing** [AEH94]. **Nashville** [ACM90a]. **Natural** [Fre06, GR96, vNG01]. **Natural-Language** [GR96]. **Navarro** [Hyy08]. **nd** [OND98]. **nd-order** [OND98]. **near** [HFFA09]. **near-optimal** [HFFA09]. **Nearest** [CEMW91]. **Nearest-neighbour** [CEMW91]. **necessary** [KT90]. **Need** [Gon02]. **needed** [AEH94]. **Negative** [YQW+16]. **neighborhood** [KS11a]. **neighbour** [CEMW91]. **Nerode** [WZU14]. **nerve** [Kle56]. **nested** [Lar98, MZZ10]. **Nesting** [Jed87]. **net** [AB89, PP85]. **Nets** [CEW58, Sim83, GR92, Kle56]. **Network** [CFS+89, Rei03, CMS08, LMMN07, LHCK04, Tak96a, TLLL07]. **Networks** [CLP95, DCM15, JGZL12, Ray96, SF01, CEMW91, Kin89, LLL12, LYWL08, MMDdJ11, SD91]. **Neural** [AB89, CG87, CLP95, SF01, Kin89]. **neuromata**

[ŠW98]. **neuropsychology** [AB89]. **Nevada** [ACM95c]. **next** [KKP92]. **next-generation** [KKP92]. **NFA**
[ARS16, Cha01, CP97, HM98, Hyy08, Lif03, PD12, YKGS11, ZYX+12].
NFA-based [ARS16]. **NFA-OBDDs** [YKGS11]. **NFA's**
[CHP92, GLRÁ11, Lau00, IY02]. **NIDS** [TK07]. **NIDS/NIPS** [TK07].
Nineteenth [ACM92a, IEE95b]. **Ninth** [ACM90a, ACM97c]. **nm** [SS93b].
NMR [SHCY93]. **No** [Edw07, Gro91a]. **node** [SWW+12]. **noise** [ZHWW12].
Noisy [Bra94]. **Nominal** [KST12]. **Non**
[Ben94, CDM11, ABH+14, CCF13, HJW+92, TZH+13]. **non-exact**
[TZH+13]. **non-fixed** [ABH+14]. **Non-Overlapping** [Ben94, CCF13].
Non-periodic [CDM11]. **non-strict** [HJW+92]. **Nondeterministic**
[Cha02a, CDL95, DL03, HSW97, GHR+16, Ryt89]. **Nonlinear**
[RR92, Dan91, NA90]. **Nonuniform** [Lut02]. **Norm** [TZW94, WC14].
normalization [KWLL08]. **North** [IEE89]. **notation** [Man06, Rev91].
notations [Vol12]. **Note**
[BST+03, CR92, Gra15, Gro91b, Ryt89, Sil77, tC09]. **notes** [BLPL92].
notion [Cha02c]. **Novel** [LLCC13, LS99]. **November**
[A+08, IEE88, IEE89, IEE93, IEE98, NEH90]. **Novice**
[JNS08, MLM+08, PP94]. **NP** [TCC91]. **NP-completeness** [TCC91]. **NR**
[Nav01b]. **NR-grep** [Nav01b]. **NUCA** [HFFA09]. **Nucleic** [CCL87].
Number [BM00, GPR95a, GS81a, Kod79]. **NY** [AP10].

O [PSK08]. **OBDDs** [CH04, YKGS11]. **Object**
[CJ93, GP93, LT90b, Coo89, GPTV93, LLC03, TG96]. **Object-Oriented**
[GP93, LLC03]. **Objects** [BZ98, Alb89, HNB+13, IM13, Mar89, MR05].
Oblivious [FV16, HLS+11]. **Obtaining** [HW07, DR06]. **OCaml** [Fri06b].
Occurrence [CIL+03, Cha02c, Mus05]. **occurrences** [FLSS93a, FLSS93b].
OCR [San95, TIAY90]. **October**
[Bao93, IEE89, IEE90, IEE92, IEE95a, IEE97, IEE09]. **off** [MNS07]. **offer**
[LS99]. **Offers** [Fri97b]. **Offline** [MT14]. **omega** [SMT+86].
omega-extended [SMT+86]. **Omni** [Wol86]. **Omni-Font** [Wol86]. **On-Line**
[FG98, GG97, Lut02, Tak86, CLP95, Fre06, Joh95, KNT11, CT96, FG95,
Gal75, NR02, TIT83]. **One** [JKNS00, LY86, Sch91a, Sch91b, She59, WC14,
Alb89, AGM05, Bak78, CR87, CCG+93, JL93]. **One-dimensional**
[JKNS00, WC14]. **one-letter** [AGM05]. **One-Way**
[LY86, Sch91a, Sch91b, She59, CR87, JL93]. **Online**
[FL12a, PS10, CJPS13, FL13]. **only** [GS81a]. **Ontario** [Cha86]. **Open**
[SDS14, AC93]. **Operating** [IEE01a, IEE01d, IEE01c, IEE01b].
Operational [HH83]. **Operations** [DJ96, AGM05, Ear74, GW92, GH09].
operator [HC87]. **Operators** [For02, Kea91a, Sym85, MMDdJ11]. **Optimal**
[AOK02, AR00, ABF94b, BH96, CG94a, CR92, CGH+98, FG95, FG98,
FNU02, Gal84, Gal95, Gaw13, GG97, Hig86, IY02, KU99, KR94, LMMN07,
MS98, MP88, Mor83, Mut00, Nak14, NWE97, NdMM02b, SN92, BKBB+14,
BG90, BKS02, CMO+08, CR94, FN04, GS81b, Gal92, GR99, GHK14, HFFA09,

IKX15, IP96, KR89, KT90, MSRR00, MS95, Neb06, PPTT15, Ryt89, ZC99]. **Optimally** [CCG+93]. **Optimization** [GC01, HJ99, LT09, Sca11, Spi99b, CK02b, KWLL08, KGP+05, SJ13, Spi99a, VW11]. **Optimized** [AK09b]. **Optimizing** [CJBW13, CJBW16, Kha16, LM01a, KS08]. **Optimum** [LD10]. **Oracle** [FPD08, GL03]. **Order**
[GU16, HW12, KEF+14, SdM01, Wag74, BLSS03, Chl08, CNPS15, CT96, Dow91, Gie90, Kes91, NRO12, OR11, OND98, Pie08, TPT13, Zei08]. **Order-**
[Wag74]. **Order-preserving** [GU16, KEF+14, CNPS15]. **order-sorted**
[Gie90, Kes91]. **Ordered** [ST04, Cro92b, Gro91a, Gro91b, Mäk89]. **ordinary**
[Rev91]. **Oregon** [ACM94a, ACM00, BGNP94]. **Organization** [IK83]. **Organizing** [CG87]. **Orientation** [TCCK90]. **Oriented**
[GP93, KS94, GPTV93, LLC03, Mus05, TG96]. **Orlando** [IEE88]. **Orleans**
[ACM91, ACM97b]. **other** [Fri97a]. **outbreak** [FNP09]. **Outerplanar**
[BJM79]. **Output** [PM78]. **Overcoming** [Kül10]. **overlap** [PSK08]. **Overlapping** [Ben94, BZ98, CCF13]. **Overlay** [LT16]. **overview**
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P [RUG97]. **P2P** [LLL12, LYWL08]. **Pacific** [IEE94a]. **Package**
[van14, Kas08, Nic03]. **packed** [BKBB+14, GGF13]. **Packet**
[LLLL08, LMT16, VWR11, YP13, ARS16, BAC12, CMS08, NYuR15]. **Padova** [Apo93]. **PageRank** [LSV08]. **pair** [PPZ08]. **Pairs** [GLS92]. **Paisley** [yWL12]. **Palermo** [GM11]. **Palindrome**
[Gal76b, IIT13, Gal75, Gal76a]. **Palindrome-Recognition** [Gal76b]. **Palo**
[IEE93, IEE98]. **PAMA** [LCL06]. **paper** [Pet95]. **Papers**
[Cro92a, Moo64, ACM69, ACM74, ACM76, ACM81, ACM92a, ACM92c, ACM93a, ACM94a, ACM95a, IEE92, IEE93, A+08]. **paradigm** [AC93]. **PARAID** [WOQ+07]. **Parallel**
[Ash85, BL94, BG92, CF06, CG87, Che96, CHL14, CCL87, CR92, CGG+97, CGH+98, DK13, ECSS88, GG87, Gal95, GJ16, GHK+91, GZ94, GS85, GIG77, HN02, HN05, IS86, KR94, KKK11, Kül10, LLCC13, MS01, MR09b, Mut00, NR98, RR90, SV94, SN92, TLC15, TVCM12, VMML15, Wei83, BGNP94, BLPL92, BG90, BG91, Bre94b, Bre95, BH96, CL09, CCG+93, CR91, CR94, Gal84, Gal92, GS93b, GF08, Hur84, Hyy08, II86, JRV96, KIH15, LV89, MK90, Mis03, MMS14, NYuR15, Ryt89, TLS16, ZC99]. **Parallel-Algorithms** [SV94]. **Parallelism**
[MKF91, Wri94, HFN05, LV86b, NR00, RW93]. **Parallelization**
[KP93, RP95]. **Parallelizing** [HN90]. **Parameter** [Jok90]. **Parameterized**
[BRL13, BDFW94, CHLT14, IS94, OP16, AFM94, Bak93, BA16, CGK08, FM06, HLS07, IS96]. **Parameters** [CJBW16, CJBW13]. **Parametric**
[Chl08, HPM94]. **parentheses** [PDC94]. **parentheses-matching** [PDC94]. **Parenthesis** [Sto96]. **Paris** [Cro92a]. **Park** [IEE89]. **Parse** [Kea91a, DF00]. **Parser** [Hol84, TB00, Gan89b, LK06, MLC08]. **Parsing**
[AU72, AU73, Cam99, Gor00, MGH97, MMI14, Ier09]. **Part** [KP15, Kul11]. **Part-of-Speech** [Kul11]. **Partial**

[Ant95, Ant96, CW84, CD89, GL01, KK08, Mor83, Ses96, Smi91, Zve80a, Zve80b, ADR03, ADR06, DR06, HR03, Jør92, KCK93, MR09a]. **Partial-Match** [Mor83, Zve80a, Zve80b]. **Partially** [ZMSD93, HY92]. **Partition** [CF85, WL15b]. **Partitioning** [Fat15, Kim99, LYWL08, Mid96]. **partners** [LLL12]. **Pascal** [Liu86, Sha88]. **Paso** [ACM97c]. **password** [MW94]. **paste** [AM97]. **patches** [TCCK90]. **Path** [Bac94, BLLW12, CDLV99, HJ99, LM01b, Tar81a, Tar81b, TPT13, Che96, CK02b, LM12, PC02, YCJK08, YT03]. **Path-** [TPT13]. **paths** [GLS07, LM13]. **Pattern** [AMB+02, ABM08, ABF94a, AAL97b, ALL97, AAL+97a, ALLL98a, ALL00, AAL+00, ALR08, AP10, AWS16, Ano92b, Ano96, iA94, AG84, AT02, ADLM96, AW89, Ash85, AJS92, AGS96, AD11, BYN98, BCD98, BEM+12, Bee81, BKLP97, BBL93, BBL98, Bow87, BTC06, BL16, BGJ01, BCFL12, BCC+13, CCFG12, CS98, CDM11, CG87, CK04, Cha02b, CZCD09, CK92, CDEK95, CG94a, CLP95, CM08, CL95, CHZ06, CJPS12, CDP14, CH03, Col94b, CG79a, CG79b, Cro92a, CR92, CR95b, CGPR95, CL96, CGH+98, D'A98, DB86, DWE89, DLG12, DN77, Dit78, DCM15, DGM94, Dwe00, EIV04, EF13, Far92, FL08, FR00, For02, FNU02, Fu95, Fu96, Fu97, GHLW15, GPP04, GC01, GRS99, GIK97, GP01, GP03, GIMV03, Gaw12, Gaw13, GP93, GM02, Gia93, GG95, GG97, GM11, GMC02]. **Pattern** [Gil85, GW92, GGN06, Gri79, Gri83, GL01, Gro92, GL86, Har02, Har97, HAR10, HH83, HL10, HT14, Haz01, Hea71, HEWK03, Hei01, HL97, HO82, HSTS01, How97, HW12, CVP86, IMR08, IST05, JSC83, KPR97, KPR00, KU99, KS12a, KR81, KR87, KR94, KRS95, KRS97, KN00, KP93, Kes91, Kes79, KTSA99, KMT+01, Kid09, KKSL01, KKK11, KS01, KS06, KM92, KM95a, KM95b, KMP77b, Kor83, Kra08, KK02, KU09, KNS12, Kül10, KVX12, KNMH00, KC99, Lab12, LV94, Lav91, LP13, LM01a, LKL02, LT03, Les95, LV06, LTL04, LA12, LLCC13, LP11, Liu86, Liu88, LM02, Lut02, MZ07, MS98, MKF91, MU02, MW92a, MW92b, MGW14, MHT09, MUHT96, McI85a, McI85b, MS01, Mu 95, MuT95, Mut00, Mye92, Nao91, Nar91, Nav98, NBY99a, NR99b, NBY01, Nav04b]. **Pattern** [NWE97, Ned98, NdMM02b, ND02, Neu10, NCKL14, OR12, OP16, OW03, Ott94, PDL98, PS10, Par96, PV91, Pet92, PW95, PPZ08, PP09, Pou93, PK85, PS93b, RR90, RR92, Rao95, RM88, RS98, Ric79, SMD04, SCFC94, SN92, Sch95, SRR92, SRR95, Ses96, Sha93, STSA99, SKF+00, Shi00, Shi04, SSSS10, Sim83, SF01, SdM01, SW09, Som82, Spi99b, Tak86, Tak94, TMK+02, TM05a, TMV+01, TK07, Ukk10, VSM87, VWR11, Via02, VG01, VRD01, Vis91, Vis99, Vol12, VS01, VB98, WCM+94b, WZS95, WSW16, Wat96, WKA94, WD99, WBA83, WM92b, Xi03, YP13, YIAS89, YK11, ZZ12, ZZH10, ZLN11, ZT89, Zue96, yWL12, ADR03, ADR06, AK08, AK09a, Akl78, Alb89, ASG99, AYCLS02, ALV92, ALLL98b, AL01, ABC+04, AKT06, ALLS07, ABH+14, Ano01, Apo92, Apo93]. **pattern** [AH97, ACP05, AP90, ADLM01, AG06, BYR93, BYCC03, Bak93, BDB90, BEM+13, BA15, BA16, Bir77a, BGJ89, BÖ13, Bra95, BBHK14, BKS02, CGK08, CPT92, CPW88, CF88, CGM10, Cha93b, Cha93a, Cha87, Cha02c,

CRV06, CR95a, CLS95, CNPS15, CS11, CWZ10, CJPS13, CCG+93, CH97b, CT96, CD89, CGR93, CG94b, CR94, CCG+99, CKC07, DS04, Dij76, DijXX, Dow91, Dow93, DGM90, FLM+10, FWW13a, FWW13b, FC98, Fen01b, FBMA05, Fri97b, Gaá04, GP92, GU95, GR99, GU16, GS00, GGF13, GG13, GPN96, HWW07, HC87, HM96, HBRV10, HP01, HK77, How96, HLN09, IIT13, Iba97, Ier09, Ind97, IM13, ISHY88, JM93, JP11, Jon07, KTP10, KSVJ15, KS07, Kas08, KTS+98, KMS+03, KCK93, Kim99, KS11a, Kin89, KS05, KMP94, KMP77a, Kos89, Kos94]. **pattern** [Kri09, KKR+13, KGP+05, LLC03, LH13, LH03, LS10, LP08, Liu81, LBK08, LO94, MCF+11, MK90, Man76, MMZ10, MAI+16, MP05, MHM+01, MR09a, MR13, MA12, Mun95, NYuR15, Nav00, Nav01b, NR02, NWE99, NdMM02a, NR17, NK07, Nil90, OK94, OR11, Oph89, Owo93, PPTT15, Par98, PS90, PC99, Per94, PMS11, Quo92, RM06, Sch81, Sch91a, Sch91b, Sch88, Sen00, SGYM00, Sil77, Smi91, SDS14, SHCY93, Spe85, Spi99a, Sri93, Sto02, SNM07, TZYH14, TM04, TM05b, Thi93, TIT83, TLS16, Val09, Van06, VW11, Via04, Vin77a, Vin77b, Vis90, Wad87, WCM+94a, WGMH13, WC14, WL15b, WZ96, WW03, Wat03, Wea94, Yao79, YCJK08, ZC89, ZMAB03, ZCÖ09, ZCÖZ12, dRL95, JD89]. **Pattern-based** [Far92, KS07]. **Pattern-Directed** [Kor83]. **Pattern-Match** [Pet92]. **Pattern-Matching** [FR00, KPR97, KPR00, KR81, KR87, KRS95, KRS97, KP93, KVX12, Lut02, MUHT96, NWE97, Ned98, Ott94, Pou93, SCFC94, Sch95, SSSS10, SW09, WM92b, CL96, GMC02, KN00, CF88, DijXX, Fri97b, Gaá04, Ier09, KSVJ15, LH13, Nav01b, NWE99, NdMM02a, OR11, Per94, Sch88, Wea94]. **Pattern-Recognition** [AWS16]. **Patterns** [BH85, CLP98, Gim73, HNB+13, IS94, JGZL12, Kha16, Les79, SB09, TMV+01, ADT15, Alb89, AG06, BLR11, BSM+07, BFS04, Bro77, CP10, Dan91, ETV88, IS96, JSH09, KIH15, KRML09, MR09a, NdMM02a, Tak93, Ver92, Vou06, Wal89, ZKCY07, ZJL14]. **Pearl** [KN12, FHW10]. **pebbles** [EHS07]. **peeling** [ALLT11]. **Peephole** [Spi99b, BA06, Spi99a]. **peer** [AB09]. **peer-to-peer** [AB09]. **Penalties** [KM92, KM95a]. **2L-approximation** [KWL07]. **B.E.** [Sca11]. **Icon** [Gri85]. **J** [KS08]. **NIPS** [TK07]. **RNA** [IMR08]. **SIGAPP** [DGBH93]. **Space** [GP01, GP03]. **SQL** [FPD08]. **Tcl** [Wes97]. **Pennsylvania** [ACM76, ACM99a, IEE92]. **peptide** [SVS97]. **perform** [MW92b]. **Performance** [FWW12, HKL+14, IS90, Lee09, MM02, MM03, Sca11, YP12, YK11, YJ84, CGM10, Fen01b, Hur84, LH13, SWZ01]. **perils** [Fen01b]. **Periodic** [Mat94, CDM11, FLSS93a, FLSS93b, ZKCY07]. **Periodicities** [Sli83]. **Periodicity** [GPP04, MAI+16]. **Perl** [Lab12, Fri97a, Han01, LT09, SPF08, Sno01, SM04, Stu07, Val09]. **Permutation** [BL16, KKR+13]. **Permutations** [BBL93, BBL98, Chr96, Iba97]. **permuted** [BEL04]. **Perrin** [Bre93, Bre96]. **Personal** [VB12]. **Pesky** [CJBW16, CJBW13]. **Petri** [GR92, PP85]. **phase** [CK02b]. **phen** [Lia84]. **Phi** [TLS16]. **Philadelphia** [ACM99a]. **PHP** [B+05, ST03, SM04, Stu07]. **Picking** [CJBW13, CJBW16]. **Piconets** [LTL04]. **Pictorial** [DOS93]. **picture** [Mar89, TCC91]. **Pictures**

[JSC83, Tak93]. **pipelined** [ISHY88, PLL10]. **Pisa** [FL08]. **Piscataway** [FC98]. **Pitfall** [OK94, KOI94]. **Pittsburgh** [IEE92]. **PL** [FPD08]. **PL/SQL** [FPD08]. **placement** [HFFA09]. **Plagiarism** [PAMP12]. **Planar** [CM08, Hig86, TZYH14]. **plane** [AK09a]. **planted** [Tan14]. **PLAs** [KTU87]. **plasma** [AP90]. **Platform** [HZ13, ZLN11, FNP09]. **play** [FHW10]. **Plexus** [AB09]. **plush** [II09, MI07]. **Plushie** [MI07]. **PMETA** [Kes79]. **pocket** [FPD08, GL03, Stu03, Stu07]. **PODS** [ACM95b, ACM99a, ACM07, ACM90a, ACM92b, ACM94c, ACM95b, ACM97a, ACM98]. **PODS'11** [Len11]. **PODS'12** [KLB12]. **Point** [CM08, GIMV03, Hig86, MU02, Ukk10, VS01, WKA94, ZHWW12, dRL95, AK09a, CGK08, CS98, Rot91, TZYH14, WC14]. **Point-Pattern** [MU02]. **Poland** [Win78]. **Polaris** [Wea94]. **Policy** [LTL04]. **Polling** [LTL04]. **Polymorphic** [Vou06]. **polymorphism** [DRW95]. **Polynomial** [BCC+13, ISNH94, PW93, FLM+10, GH09, Liu81]. **Polynomial-Time** [ISNH94]. **polypeptides** [SHCY93]. **POPL** [ACM94a, ACM95a, ACM87]. **Population** [TMV+01]. **Population-Based** [TMV+01]. **Portable** [IEE01a, IEE01d, IEE01c, IEE01b, ZGE85]. **Portland** [ACM94a, ACM00, BGNP94]. **Position** [PRU11]. **Positions** [IY02]. **POSIX** [IEE01a, IEE01d, IEE01c, IEE01b]. **Possibilistic** [WD99]. **possibilities** [LS99]. **Post** [KGP+05]. **Post-compilation** [KGP+05]. **Postprocessing** [RJK79]. **PostScript** [HV93]. **Potential** [KNMH00]. **Power** [Bao93, Wol90a, WOQ+07, Wol90b]. **power-aware** [WOQ+07]. **PowerEN** [HKL+14]. **Powerful** [Pol01, Fri97a]. **Practical** [ALR08, BYP92, CSY03, KK95, Lut02, NR99b, PPTT15, TTHP05, BYP96, CCG+99, ĎHPT10, Maa06, NR02]. **Practicality** [TT82]. **Practice** [CCFG12, CJBW16, DGBH93, KP99a, CJBW13, DRSS96, WL15b, Lut02, KKP92]. **PRAM** [PDC94, dB93]. **Pratt** [PV91, Bar81, DS04, Ukk10]. **Precessions** [SS93a]. **predicate** [MFRW09]. **predicates** [Gan89b, TP07a, TP07b]. **prediction** [Fen01b]. **Predictive** [KKSL01]. **Prefix** [BM00, BCT94, BCT98, CIK98, GLS92, HWW07, Han13a, HAR10, BBHK14, BCT93, Bre95, BFK+03, DK13]. **Prefix-Free** [Han13a, HWW07]. **Prefix-Matching** [BCT94, BCT98, BCT93, Bre95]. **Preliminary** [GS81b, LS94, WCM+94b, Kos94, WCM+94a]. **Preprocessing** [Nao91, CCG+93, Ryt80, Sto02, Tak96b]. **Presence** [HT14]. **presented** [ACM69, ACM74, ACM76, ACM81, ACM92a, ACM92c, ACM93a, ACM94a, ACM95a, NEH90]. **preserving** [CNPS15, GU16, KEF+14, QPWH08]. **Prevention** [TS05, TBS06]. **Primer** [Lut02]. **primitive** [Dow93]. **Primitives** [KM94]. **principle** [CL09]. **principled** [Cox10b]. **Principles** [ACM83, ACM87, ACM90a, ACM92a, ACM92b, ACM93a, ACM94a, ACM94c, ACM95a, ACM95b, ACM97a, ACM98, ACM99a, ACM06, ACM07, AP90, DRSS96, KLB12, Len11, MMZ10, KKP92]. **Priority** [Lav91]. **privatization** [RP95]. **Probabilistic** [AJS92, LSV08, MHKR12, Sch91a, Sch91b, TMV+01]. **Probabilities** [PM78, Neb06]. **Probability** [SCFC94]. **Problem** [BCT94, BCT98, CF06, CK02a, Hui92, KS11b, KS12b, KZ02, Pet02, PW93, Yan95, Akl78, B+05, BSTU08, BC06, BCT93, CM07, Dij76, DijXX, FL13, Goo05,

Gra15, Gro91a, GZ10, Kar82, Maa06, Mae90, Mäk89, Man76, RTO15, Rob79, Sch81, SZ05, Tak96a, Tan14, Tho81, YT03, YHV+15, tC09, GLS92, BLPL92]. **problem-based** [BC06]. **problem-solution** [B+05, Goo05]. **problem-solving** [Tak96a]. **Problems** [CK92, Gon02, Hea71, KPR97, KPR00, Loh10, MNS10, OP16, RS59, SV94, Tar81a, Tar81b, Via02, FMdB99, Gro91b, GHK14, HY92, Ind98, Kra08, Mid96, Nic03, Sri93, SH85, Via04]. **Procedural** [Sym85]. **Procedure** [Gin67, HW09]. **procedures** [MP88]. **Proceedings** [ACM90a, ACM92b, ACM94b, ACM94c, ACM95b, ACM97a, ACM98, DGBH93, KP15, KLB12, Len93, Len11, Lev95, SC04, SC05, SM09, ACM81, ACM08, ABB93, B+02, Bro93, IEE92, IEE93, IEE94a, IEE98, MG94, SC93, SC99, SC01, SC02, SC03, SM10, WN90, Win78, ACM83, ACM84, ACM86, ACM90b, ACM91, ACM92c, ACM92d, ACM93b, ACM94d, ACM95c, ACM97b, ACM97c, ACM99a, ACM99b, ACM00, ACM06, ACM07, AL01, AP10, AGS93a, AGS93c, AGS93d, AGS93b, Ano87, AAC+01, AT02, AOV+99, BYCC03, Bao93, Cha86, DT87, FC98, FL08, FJ92, FMA02, GS00, GM11, Hwa85, CVP86, IEE88, IEE90, IEE94b, IEE95b, IEE09, KS12a, KU09, LV06, MZ07, PC99, SMD04, SW94, Sto92, SC98, USE92, Apo92, Apo93, AH97, ACP05, BGNP94, Bun94, CG94b, GU95, HM96]. **Proceedings.** [BGG+94]. **Process** [Gro91a, VVV04]. **Processes** [SBF80, AB89]. **Processing** [CCL87, TMK+02, VCS+12, vNG01, CL09, CK08, ECSS88, Gre88, KSH+15, Kit94, QWX+13]. **Processor** [HKL+14, LHCK04, ME97, MM07, TLLL07, WKR09, CPW88, Sca11]. **processor-based** [LHCK04]. **Processors** [AWS16, VCS+12, YP13, TLLL09, YIAS89]. **Production** [DWE89, MUHT96]. **products** [Yod91]. **Professional** [HZ13, JNS08]. **Profile** [FhDAF09]. **Profile-guided** [FhDAF09]. **Profiles** [SB09]. **profondeur** [Alb89]. **Program** [CDL+15, JP73, Mu 95, MuT95, Wea94, Kod79, KMMPN85, Mag81, MP09, Mun95, Pel87, Pra97, WZS95]. **Programmable** [CFS+89, GHK+91, LK90, MM07, LK88]. **Programmer** [BF97, Mae94]. **Programming** [ACM92a, ACM92c, ACM93a, ACM94a, ACM95a, AGT89, AWS16, Ham88, Hud89, KP99a, Kor83, Mae94, Mye98, ND02, Sym85, Tho68, VHC88, Wen93, ACM87, AC93, BAC06, BK89, CM86, Coh90, Ear74, Fla88, HJW+92, KS08, Mor02, Mye99, Pie08, Smi91, YIAS89]. **Programs** [Bir77b, RND97, VMML15, BK86, HN90, Jon07, KOI94, NWE99, NAR08, OK94, OR11, SLTB+06]. **PROGRES** [Zue96]. **Projections** [Wei83]. **PROLOG** [Wei84, CF88, Gan89a]. **Proof** [Asp12, KN12, PPTT15]. **ProofChecker** [SBR+07]. **Proofs** [GHW05, SBR+07]. **Properties** [Sli78, AS85, LMN16]. **property** [KKM+85, LM13]. **Proportion** [AW89]. **Proposal** [Liu88]. **Protein** [CCL87, Les95, MGW14, Pol13, VG01, FLSS93a, FLSS93b, HAI02]. **protocol** [AB09]. **Protocols** [HL10, HSL10]. **Prototype** [Mu 95, MuT95, Mun95]. **Prototyping** [CFS+89]. **Provably** [GH13]. **providing** [BH07]. **Proximity** [BYCMW94]. **Pruning** [ZGS+15, PC02]. **pu** [Lia84]. **Punctuation** [GWvG10]. **purely** [HJW+92]. **Purpose**

[VCS+12, AAB+86, Sch91a, Sch91b]. **push** [GOMSJVGP08]. **push-down** [GOMSJVGP08]. **Pushdown** [MS98]. **Puzzle** [BK93d]. **pyramid** [SS94]. **Python** [LR14, Rom14, SM04, Stu07].

Q [MP88]. **Q&A** [Cal00]. **Q-Coder** [MP88]. **QED** [Ritxx]. **quadtree** [SS94]. **quadtrees** [BK89]. **qualitative** [MLM+08]. **Quality** [LLW+15]. **Quantitative** [Liu88, Sca11]. **quasi** [Kos94, NCV10]. **quasi-equally** [NCV10]. **quasi-real-time** [Kos94]. **Quebec** [ACM94d]. **Queries** [BYCMW94, BLLW12, CDLV99, FLS98, HJ99, Kin92, ADT15, Arn93, CK02b, FWW12, IKX15, LMRT14, ZCÖZ12]. **Query** [FLS98, KM94, AYCLS02, AL08, BLSS03, BFS00, CDL08, CMW87, KSH+15, MZZ10, PC02, QWX+13, RM06, ZCÖ09]. **Querying** [BLR11, LM01b, San15, TV14, CM95, GW92]. **Question** [KKSL01, AFI98, CKC07]. **Question-Answering** [KKSL01]. **queues** [SWZ01]. **Quickscan** [Sil77]. **quirky** [MLM+08]. **Quotient** [FPP08].

R [Ram94, Val09, van14, Lab12]. **Rabin** [GBY90a, GBY90b]. **RAID** [WOQ+07]. **Random** [Ale94, RKH02, CRV06, Yao79]. **Randomized** [AJS92, ACD01, BST+03, CGG+97, KR81, KR87, AGW13, CH97b, II86]. **range** [HFI+08]. **Rapid** [CG79a, CG79b, Gri79, Bak78, AWS16]. **Rapidly** [Dav73]. **Raster** [AGS93a, AGS93c, AGS93d, AGS93b]. **Rationale** [IEE01b]. **ray** [SS93b]. **RDF** [KSH+15]. **RE** [CGR02, CGR03]. **RE-Tree** [CGR02, CGR03]. **re2** [Cox10b]. **reachability** [FWW12, GZ10]. **reachability-bound** [GZ10]. **Reactive** [HFFA09]. **reading** [BWG12]. **Real** [BG14, Gal76a, Gal81, Kos94, Sli78, Sli83, BGM13, CM90, Gal75]. **Real-Time** [BG14, Sli78, Gal76a, Kos94, BGM13, Gal75]. **Realization** [CEW58, Kle56, TB00, XK92]. **Reasoning** [ADT15, GNU94, KS07, PS90]. **Rebus** [Gri85]. **Recalibration** [BM08]. **recipes** [B+05, Goo05]. **Recognition** [ACR01, AWS16, BGJ01, CG87, CJ93, CTF+98, CLP95, Gal76b, GS93a, CVP86, LT90b, PDL98, PG90, SA96, WD99, Wol86, Yam01, AAB+86, BWG12, Gal75, Gal76a, KSWC93, KKM+06, Kin89, SKS96, ZC89]. **recognizable** [HY92]. **Recognized** [RJK79]. **recognizers** [Fos89]. **Recognizing** [Ray96]. **Recombinant** [Cop91]. **Recomputing** [HPM94]. **Reconciling** [IM13]. **Reconfigurable** [BM00, MLC08, CMS08, Ram94, WKR09]. **Reconstructing** [Wei83]. **Reconstruction** [Sha93, Sto96, NCV10]. **Record** [Wei84, ACM69, ACM74, ACM76, ACM92a, ACM93a, ACM94a, ACM95a]. **Rectilinear** [GK86]. **Recursion** [Bir77b, BFS00, CM90, CMW87]. **Recursive** [FR00, FKP77, JD89, Dow93, GPR95b, HN90, Kra08]. **Reduce** [CKW09, Har79, Kes79]. **reducibility** [KR95]. **Reduction** [KNMH00, She59, DWE89, RP95]. **redundancy** [Joh94b]. **Redundant** [RJK79]. **reexamined** [ORT08]. **Refactoring** [WGMH13]. **reference** [FPD08, GL03, Mha05, Stu03, Stu07]. **references** [WL15a]. **referencing** [Lar98]. **Refined** [Pet94, Sch88]. **reflection** [HS08, Mor02]. **Reflective**

[Dwe00]. **refunctionalization** [RTO15]. **Regex** [Sch13]. **regexes** [MMI14]. **RegeXeX** [BH07]. **Regexpcount** [Nic03]. **Region** [Bao93]. **regions** [CM95]. **Register** [VSM87]. **Registration** [DMWW77]. **Regular** [AM91, ADR15, Ano68, Anoxx, Ant95, Asp12, Bac94, BTG83a, BTG83b, BC13b, BF97, Ber00, BGNV10, Bra94, BC94, BFS04, BTC06, BK93a, BKW92c, BK93c, Brz62, BP63, Brz64b, Brz64a, Brz65, CDLV99, Cam99, CSY03, CZ01, Cha01, Cha02a, CLOZ04, COZ09, CJM12, CDJM15, CGR02, CJBW16, CHP92, CC97, CKW09, CDL95, Cox07, Cox09, Cox10a, Cox12, Dav99, Dav03, Dav04, DM11, EU98, FLS98, FU82, Fri02, GJ16, GRS99, GGM12, GN12, Ghi62, Gil70, Gin67, Gol93, Goo05, GL12, GH13, GH15, Hab04, HM98, Ham88, HWW06, Han13a, Han13b, HWJ03, HN11, HJ99, Hir96, Hol84, HK11, HVP00, HP01, HVP05, HN00, HSW97, Hum97, Hum99, IY02, KT06, KTU87, Kea91a, KP99b, KP99c, Kin92, KM92, KM95a, KN12, KV15]. **Regular** [KZ02, KST12, LS99, LS06, Lar98, Lee09, LZHZ98, LM01b, LT16, LT09, Loh10, Mad01, MS98, Mag81, MNS10, MY60, MPN+14, MR09b, MPdS12, Mye92, MOG98, NR99a, NR01, Nav01c, Nav04a, NR04, Org03, OF61, ORT08, Pak91, PM78, PPA10, Pat71, Pet02, Pra97, Pre99, Ray96, Rez92, Ric79, SA96, Sca11, Sch99, SS93a, Sou99, Spe85, SM99, Stu03, Stu07, TV14, TB00, Uma97, VCS+12, VHC88, Wag74, WPKL13, Wat96, Wen93, WMM95, WZU14, XK92, Yam01, YP12, YQW+16, ZGS+15, Zia96, dLFM07, vNG01, AFI98, AGM05, AM95, Ant96, AOMC07, ACM02, BCG07, BYG96, BAC12, BRL13, BDFR08, BS86, BNSV10, BFC08, BFG09, BK86, Bra95, BH07, BKW92a, BK93b, BKW92b, CGR03, CP97, CJBW13, CK02b, CLT07, CK08, CGPS13, Cox10b, DL03, DF00, EZ74]. **regular** [FL71, FDG+11, FHW10, Fos89, Fri97a, Fri06a, GLRÁ11, GR92, Gel10, GL03, GMS12, GH09, HW07, HWW07, HY90, HSJ04, HW09, Jan85, JSH09, Joh69, Kah06, KS08, Kar82, Ker07, KGA+12, Kin91, Lau00, Lee82, Lei80, Lei85, LWS+16, Lif03, LR14, LM13, LMN16, MMDdJ11, MR05, Mor02, MZZ10, Nic03, PC02, PIT+03, Rob79, Rom14, Ryt89, San15, SMS15, SGYM00, Sha88, SY72, SH85, SM04, SMT+86, Vou06, WL15b, WW03, Wat03, XJT+04, YKGS11, YH91, YH92, YB13, ZZH16, ZC99, ZYX+12, tC09, Tho68]. **Regular-Expression** [BTC06, Han13a, YQW+16, ORT08]. **Regular-like** [BTG83a, BTG83b]. **regulatory** [MMDdJ11]. **reifiable** [dSOMY15]. **Reinforcement** [KK02]. **Related** [CHZ06, AS85, Gro91b, Sri93]. **Relation** [KN12, MR92, Pre99, LSV08]. **relational** [BGHZ15, HC87, KWLL08, MZZ10, DWE89]. **relations** [BLSS03, BÖ13, MAI+16]. **Relationship** [XK92, GR92]. **relaxation** [SHCY93]. **Reliability** [FO76]. **Reliable** [KKSL01, CDC96]. **Remark** [Tho81, Pet95, TCC91]. **Remarks** [CR87]. **Removal** [KK95]. **Renyi** [AW89]. **Repairing** [LWS+16]. **repeated** [LO94, Thi93]. **repetitions** [Cro86]. **Repetitive** [CDM11]. **replacement** [NAR08]. **Replacing** [DCM15]. **replication** [HFFA09]. **Report** [GS81b, HJW+92]. **Reporting** [MOG98]. **representable** [Dow93]. **Representation** [NR01]. **representations** [YB13, ZC89, ZZH16]. **Required** [MW92b]. **requirement**

[LH13, ZKCY07]. **requires** [Rob79]. **Research** [CPW88, IEE89]. **Residue** [BM00]. **resolution** [OW03]. **resource** [FK96]. **resource-bounded** [FK96]. **resourceful** [BFP+08]. **Resources** [HAR10, MP09]. **Restricted** [Kin92]. **Results** [Lec95, WCM+94b, FL13, WCM+94a]. **Retargetable** [GFH82, BDB90, Gan89a, Fra83, GHF83a, GHF83b, WNL+83]. **RETE** [Alb89, MK90]. **Retrieval** [BBH+87, GR96, LZ96, MKF91, Mor83, Zve80a, Zve80b, All82, BSY00, PMD01, SD91, ZKA12]. **Reusability** [PV91]. **Reuse** [HL97]. **Review** [Hum97, Lab12, Neu10, Uma97, FL13]. **revised** [A+08]. **revisited** [CCI+13, GL01, RUG97]. **rewrite** [KN00, Ram94]. **Rewriting** [AM95, CDLV99, Dur94, GHW05, Lav91, ND02, GMC02, KR95]. **Rewriting-Based** [ND02]. **REX** [Cam99]. **Rexx** [LS06]. **Rey** [ACM69]. **Richness** [QPWH08]. **Richness-preserving** [QPWH08]. **rifarensu** [SM04]. **Right** [NWE97, Ned98, Pat71, CWZ10, HR03, Tak96b]. **Right-Linear** [Pat71]. **right-to-left** [CWZ10, HR03]. **Rigid** [JM85]. **Rigid-Body** [JM85]. **Risk** [Lut02]. **Risk-Based** [Lut02]. **RNA** [ABH+14, BA15, MP05, SBHM94, Shi00, Shi04]. **RNAi** [QLY07]. **robot** [PS93a]. **Robust** [Le 91, WZJH12, YP13, BFN+09, HLN09]. **Roma** [AAC+01]. **Root** [CHZ06, TLLL07]. **root-hashing** [TLLL07]. **Root-To-Frontier** [CHZ06]. **Rosenberg** [CR91]. **Rosser** [KKM+85]. **Rotation** [FU98, HW12, HLN09, TZYH14]. **Rotations** [FNU02, ABC+04, AKT06]. **Route** [Les94]. **router** [MLC08]. **routines** [SMS15]. **routing** [LMMN07]. **Rs** [GW92]. **Rs-operations** [GW92]. **Ruby** [Stu07]. **Rule** [Han92, Gre88, Oph89]. **rule-based** [Gre88]. **Rules** [Ghi62, Lav91, GMC02]. **Ruleset** [Sca11]. **Run** [Chu95, MHT09, BFKL13, BC95, RP95]. **Run-Length** [Chu95, BFKL13, BC95]. **Run-Time** [MHT09, RP95]. **Running** [DLG12, Gal79, NAR08]. **Runs** [BL16]. **runtime** [Rob92]. **Russians** [Mye92].

S [BGFK15]. **safe** [HS08]. **safety** [FF08]. **Salomaa** [AFI98]. **sam** [Pik00]. **Samples** [GZ94, ST96b, Tak94, Kin91]. **Sampling** [GPR95a, Lut02, Vis91, WSW16, CGR93, Vis90, ZHWW12]. **San** [ACM92c, ACM92b, ACM93b, ACM95a, ACM95b, DT87, IEE94b, KP15, Sto92, USE92]. **SAR** [B+02]. **SASL** [LT90a]. **Satellite** [SS93a]. **Saving** [Bre93, Bre96, GS80]. **Scalable** [ARS16, BAC12, BBHK14, BTC06, HSL10, LT16, MT14, VWR11, YP13, ZLN11, AB09, BGFK15, KTP10, TLLL09, VW11, WL15b]. **Scale** [LP13, LYWL08, TZYH14]. **Scaled** [BEL04]. **Scaling** [HW12, MS01, YDDB15, ALV92, HLN09]. **SCAN** [Gre88]. **scanner** [Hur84, ISHY88]. **Scanners** [HKR92]. **scanning** [CWZ10, HFI+08]. **Scenes** [BZ98, BSM+07]. **scheduling** [LMMN07, Mid98]. **schema** [IIK08, MNS07, dLFM07]. **Schemas** [BGNV10, MNS10, KS07]. **Scheme** [Bur84, Man94, Man97, Bur82, Kod79, KRL87, LH13]. **Schemes** [KK08, Pel87, QWX+13]. **School** [Cro92a, Ano92b]. **Science**

[ACM89, FJ92, IEE89, IEE90, IEE92, IEE93, IEE95a, IEE97, IEE98, IEE09, Gus97, Ker04, Win78]. **Scientific** [WCM+94b, WCM+94a, WZS95]. **Score** [Ben94]. **Scoring** [KK08]. **Scotland** [AOV+99]. **Scottsdale** [KLB12]. **Scratchpad** [JT94]. **screening** [QPWH08]. **Scrimshaw** [Arn93]. **Scripting** [Fri97b, RB05, BFN+09, Blu08, FhDAF09, Han01, LS99]. **scsh** [Sar02]. **Search** [AC75, Ber00, BK93d, Cal00, EF13, FG98, GG97, KR94, Lut02, Man86, NR99a, NR01, Pol01, SED14, SB09, Sun90, YDDB15, Zha07, ZGS+15, AB09, BC13a, BC06, FG95, FG99, GHK14, JRV96, NR02, QLY07, Tan14, Tho68, YHV+15, Cox12]. **Search-Space** [ZGS+15]. **Searches** [GN01, MT14, Fen01a, KS08, MW92b, SMS15]. **Searching** [BS97, BM77, CC97, CCL87, Dav73, EF95, Gon83, HS91, Man94, Man97, Nav01c, Nav04a, NR04, TT82, ZMSD93, AEMS14, BYG92, BYG96, Bar84, CD96, CEMW91, HKN14, Han93, KIH15, Mha05, Mus03, Mus05, Owo93, Per94, Ryt80, SNZBY00, WL15a, WM92a]. **Seattle** [ACM74, ACM98]. **Second** [ACM83, ACM00, ACM90b, Dow91, TPT13]. **second-order** [Dow91, TPT13]. **secondary** [BA15, MP05]. **Sections** [DCM15]. **Secure** [BEM+12, BEM+13, EF13, HT14]. **Security** [HL10, MW94, Rei03]. **seed** [CCI+13]. **Seeded** [LPR+08]. **Seeds** [Zha07]. **segmentation** [IIK08]. **Segments** [EIV04]. **Seiki** [SM04]. **Selected** [Cro92a, Moo64]. **Selection** [Bon07, Gie90]. **selectivity** [JKNS00, TP07a, TP07b]. **Self** [CG87, JP11]. **self-interpretation** [JP11]. **Self-Organizing** [CG87]. **SeLINQ** [SHS14]. **Semantic** [Gan89b, Har97, II08, Coo86, IIK08, MP09, SG12]. **Semantica** [Har97]. **Semantics** [Dan91, Gud92, Pag78, PAG09, Chl08, Mal93, San15]. **Semantics-directed** [Dan91]. **Semi** [KV15, TMK+02, BGHZ15, Rob79]. **Semi-Extended** [KV15]. **Semi-structured** [TMK+02, BGHZ15]. **semiring** [AS85]. **semistructured** [BFS00]. **Sensitive** [CK02a, SA96, TPT13]. **sensor** [NCV10]. **sensors** [BWG12]. **Separated** [Pol13]. **Separation** [Kul11]. **September** [AAC+01, AOV+99, Len93, MG94, Win78]. **Sequence** [BLP94, BDFW94, Bra90, CCL87, GM02, KK08, LPT12, MGW14, RND97, CLT07, ECSS88, GO12, HAI02, MBY91, SVS97]. **sequenced** [GW92]. **Sequences** [Hua94, IMR08, MT14, DKP11, GGN06, Gus97, MZZ10, NR02, Nil90, ZKCY07, Lut02]. **Sequencing** [RM06, KRML09]. **sequentiability** [Gaá04]. **Sequential** [BP63, Brz64a, Brz65, Dur94, GRS99, GPR95a, Man86, Moh94, MR13, Moo64, OF61, PM78, RS98, Wei83, Zve80a, Zve80b, JM90, MMZ10]. **SEQUITUR** [MHM+01]. **serial** [GS93b, LV86b, LV89]. **Series** [LKL02, MR09b]. **Series-Parallel** [MR09b]. **server** [SWZ01]. **Set** [HL10, Hig86, Hui92, KF91, CGK08, CP10, KR97, WC14, dRL95]. **Sets** [EIV04, Pol13, Via02, AK09a, Alb89, CS98, Che96, Kin91, Mat94, Rot91, Sta89, TZYH14]. **Seventeenth** [ACM89]. **seventh** [ACM95c, AAC+01]. **SGML** [BK93a, BKW92c, BK93b, MGH93, MGH97]. **shading** [BSM+07]. **Shallow** [Cam99]. **Shape** [BZ98, CTF+98, YJ84, DOS93]. **Shapes** [HH93a, CT96, HH93b]. **Shared** [TVCM12, VRD01, SW93]. **Shared-Forest** [VRD01]. **sheaf** [Sri93]. **sheaf-theoretic** [Sri93]. **shelf** [MNS07]. **Shell**

[IEE01c, RB05, Blu08, Wes97]. **shells** [Qui00, Qui02]. **Shift** [Fre03, IMP01, KTSA99, CT96, Per94]. **Shift-And** [KTSA99]. **Shift-or** [Fre03, Per94]. **shifting** [WOQ+07]. **Short** [BLPL92, Han13b, KRS95, KRS97, MR09b, BGFK15, Che96]. **Shorter** [GH13, HW07, ZZH10]. **Shortest** [Ale94, Mid98, TY97, IKX15, TU88]. **shuffle** [Jan85, Jed87]. **SIAM** [ACM97b]. **Side** [Hum99]. **Sided** [CDJM15]. **SIG** [ACM97a]. **SIG-SIGMOD-SIGART** [ACM97a]. **SIGACT** [ACM83, ACM87, ACM90a, ACM92a, ACM92b, ACM93a, ACM94a, ACM94c, ACM95a, ACM95b, ACM98, ACM99a, ACM06, ACM07, KLB12, Len11]. **SIGACT-SIGMOD** [ACM83]. **SIGACT-SIGMOD-SIGART** [ACM90a, ACM92b, ACM94c, ACM95b]. **SIGACT-SIGPLAN** [ACM87]. **SIGART** [ACM90a, ACM92b, ACM94c, ACM95b, ACM97a, ACM98, ACM99a, ACM06, ACM07, KLB12, Len11]. **SigMatch** [KTP10]. **SIGMOD** [ACM83, ACM90a, ACM92b, ACM94c, ACM95b, ACM97a, ACM98, ACM99a, ACM06, ACM07, FMA02, KLB12, Len11, SW94, Sto92]. **SIGMOD-SIGACT-SIGART** [ACM99a, ACM06, ACM07, KLB12, Len11]. **signal** [Nak14, NCV10]. **signature** [QWX+13]. **Signatures** [TT82, CEMW91]. **Significant** [PRU11]. **SIGPLAN** [ACM87, ACM92a, ACM93a, ACM94a, ACM95a]. **SIGPLAN-SIGACT** [ACM92a, ACM93a, ACM94a, ACM95a]. **Similar** [IK83, HKN14]. **Similar-String** [IK83]. **Similarity** [CM94, MU02, AK09a, BSY00, IIK08, II08, JLFL14, QWX+13, TP07a, TP07b, WLF14]. **Simon** [Han93]. **Simple** [AR00, Bra94, BGM13, Cox07, Gaw12, GL89, IST05, MNS07, Mut00, CLS95, Eck89, Fla88, FHP92, IKX15, II86, NBY99c, Pet07]. **Simpler** [CH02]. **Simplicity** [Wol90a, Wol90b, Edw07]. **Simulation** [BÖ13, Pet94]. **Simulations** [Gal76b]. **Simultaneous** [PS93a]. **Single** [AAB+86, Per94, FN04]. **Single-board** [AAB+86]. **singleton** [AFI98]. **singly** [BAP06]. **singularity** [WYA+07]. **Sixteenth** [ACM97a, ACM84]. **Sixth** [ACM07, ACM74, ACM94d]. **Size** [BGG12, CF85, CKW09, Hui92, Kül10, GH09, Lif03, PPTT15]. **sketching** [SLTB+06]. **Skolem** [Kar82]. **sliced** [KRL87]. **Slicing** [DSv94]. **Sliding** [FL12b]. **Small** [CLP98, CGPR95, HSW97, MPN+14, STK10, Sca11]. **Small-Ruleset** [Sca11]. **Smaller** [GPR95a, GLRÁ11]. **smoothed** [AK12]. **Smoothness** [ZCS+12]. **SNOBOL** [Bro77]. **SNOBOL4** [Duf82, Gim73, Gri85, Liu86, Sch81, Sil77, Gri83, Pag78]. **SNOBOL4/Icon** [Gri85]. **Snowbird** [SC93, SC95, SC96, SC98, SC99, SC01, SC02, SC03, SC04, SM09, SM10, SM11]. **Society** [CVP86, NEH90]. **SODA** [BJK+12]. **Soft** [CKC07, How97, How96]. **Software** [Bee81, FO76, IEE94a, IEE95b, KP99c, Lut02, MG94, PAMP12, Gre88, Joh01, KOI94, MP88, Spe85]. **Solution** [Hea71, B+05, BLPL92, Goo05, Sch81, YCJK08]. **Solutions** [Gon02, Sto96, BBHK14, DL03, Sta89, BGG+94]. **solver** [KGA+12]. **Solvers** [ZGS+15]. **Solving** [BK93d, SED14, Tar81a, Tak96a]. **Some** [Fen01b, Gal76b, Liu86, MW92b, Sli78, WCM+94b, Wol90a, San15, WCM+94a, Wol90b].

Sorted [Wal88, Gie90, Kes91]. **Sorting** [BS97, Chr96, JRV96, FCFM00]. **sorting-complexity** [FCFM00]. **Source** [SED14, AG06, Joh94b]. **sources** [ST96a]. **Sourcing** [CDL+15]. **South** [ACM93a]. **Space** [BC13b, Ben94, CF06, CZ01, Cha94, CF85, CDEK95, CJPS13, CGPR95, GS80, GPR95a, KC87, LT09, SWY75, ZGS+15, AK08, BCWG09, BGM13, CD96, CGR99, GS81b, GPR95b, GO12, IKX15, KR89, LMRT14, Rob79, SW12]. **Space-Efficient** [BC13b]. **space-optimal** [KR89]. **Space-Time** [CF85]. **Spaced** [Zha07, NCV10]. **Spain** [LV06]. **spam** [KEG+08]. **Spanners** [FKRV15]. **SPARQL** [LM12, LM13, PAG09]. **Sparse** [WSW16, HSL10, Quo92]. **spatial** [CS98]. **spatio** [PMD01]. **spatio-temporal** [PMD01]. **Speaker** [PG90]. **Special** [ALLL98a, AK09b, AGS93a, AGS93c, AGS93b, DT87, ALLL98b, Cro92a]. **specialisation** [Jon07]. **Specific** [MGW14, TMV+01, WKR09]. **Specification** [Lut02, Sou99, SMT+86]. **specifications** [JM90]. **Specified** [ZMSD93]. **specify** [CFM00]. **Specifying** [Lut02]. **Spectra** [BM08, SHCY93]. **spectrum** [ZHWW12]. **Speculative** [NYuR15, RP95]. **Speech** [Kul11, PG90, RJK79, AAB+86]. **Speed** [FL12b, JGZL12, LK90, VCS+12, LK88, TLLL07, ZYX+12]. **Speeding** [CCG+94, Deo06, SKF+00, ACF05]. **spelling** [AB89, BSY00, TIAY90]. **spelling-correction** [BSY00]. **SPIRIT** [GRS99]. **Split** [KKK11, TBS06]. **Splitting** [RTT02b]. **Spreadsheet** [GHS12, SG16]. **spreadsheets** [BGHZ15]. **Spring** [Ano87]. **Springer** [Neu10]. **SQL** [BJK+12]. **Square** [ACM83, CIK98]. **Squares** [Rao94, IMS97]. **Squib** [SM99]. **St** [IEE90]. **stable** [KT90]. **Stack** [ZZ12]. **Stack-based** [ZZ12]. **STACS** [FJ92]. **stage** [YCJK08]. **Standard** [IEE01a, IEE01d, IEE01c, IEE01b, BR09]. **star** [HY90, Tho81, YH91, YH92, tC09]. **star-free** [tC09]. **star-height-problem** [Tho81]. **starting** [Mid98]. **State** [Bow87, CM58, Gol93, Han13b, MY60, Yun12, vNG01, Gaá04, HW07, Hur84, MMS14, VHL+12, Yod91]. **Statements** [JP73]. **States** [DGBH93, LK06]. **Static** [Cha02b, HV93, JGZL12, ALLS07, FhDAF09, GLS07, HS08, JU91, LYWL08, MP09]. **Stationary** [KS96, ST96a]. **Statistical** [BGJ01, GS93a, GWvG10]. **statistics** [Maa06]. **Std** [IEE01a, IEE01d, IEE01c, IEE01b]. **stem** [YHV+15]. **step** [BD98]. **Stereovision** [PDL98]. **Stieltjes** [KC11]. **Still** [Gon02, LS06]. **STOC** [ACM08]. **Stochastic** [SBHM94]. **Stopper** [RTT02b, RTT02a]. **storage** [All82, CDC96, GS81a]. **Strategic** [Vis99]. **Strategies** [CJ93, MM02, HBRV10, MM03, MLM+08, PSK08, PCS99, iA94]. **Strategy** [Bon07, EMC96, AEH94, LLL13]. **stream** [Nil90]. **Streamed** [DCM15]. **Streaming** [BG14, PP09, BGFK15, GHR+16]. **Streams** [CJPS12, DLG12, Har02, CL09, CGM10, San15]. **strict** [HJW+92]. **Stride** [VWR11, NYuR15]. **stride-** [NYuR15]. **striding** [ARS16]. **String** [AOK02, Abr87, AC75, Aku94, AR00, ACR01, ADR15, iA94, ACD01, BST+03, BYP92, BYN96, BY96, BYN97, BYN99, BCP02, BH02, BH85, Ber00, BLLP90, BL94, BM00, BGVW12, BM77, BG92, Bre93, BCT94, BG95, BCT98, BGG12, BG14, BK93d, BZ98, Bur84, CF06, CF88, CK02a, CLS+10,

CL92, Cha93b, CM94, CL94, CCH09, CLP98, CN02, CTF+98, CHL14, CH04, Chu95, CW84, Col94a, CHPZ95, CH97a, CH02, CP91, Cro92b, CCG+94, CGG+97, CIK98, CIM+02, Dav73, EMC96, FT95, FT98, FL12a, FL12b, FG98, FV16, FU98, Fre02, FT04, Fre06, Gal76b, Gal79, GS80, Gal81, GP90, GG91, GG92, Gal95, GPR95a, GHW05, GZ94, Gon02, GFG11, GV05, GMMN12, HD80, HH93a, Hui92, HS91, HN02, HN05, IMP01, IK83, JLFL14].
String
[JTU96, Kha16, KST94, KKK11, KS11b, KS12b, LSW08, LP13, Le 91, Lec95, Lec98, Les94, LY86, LLLL08, LD10, Liu86, Liu88, LCL06, LLW+15, LS94, Mel95, Mey85, MM02, Moh97, ML96a, ML96b, Mun07, MR92, Mut97, Mye98, Nao91, NR98, NBY99b, OM88, PAMP12, PK95, PP94, Pet07, Phi94, Rao94, RTT02a, RTT02b, RKH02, RPE81, SV94, STK10, Shi92, Shi97, Sim94, Sli78, Sli83, Spi99b, ST95, ST96b, ST04, TS05, TU93, TP97, TT82, TLC15, TVCM12, UW93, VMML15, Wri94, YP13, ZS13, ZGS+15, de 82, van14, Aku95, ACF05, ALP04, AAK+09, AEK+11, AEMS14, AGW13, BFKL13, BYF96, BYP96, BSY00, Bak78, Bar84, BR09, BKBB+14, BLPL92, BFG09, BFP+08, BG90, BG91, BCT93, Bre94b, Bre95, Bre96, BGM13, Bur82, BEL04, CCF13, CL90].
string
[Cha93a, CDDM05, CW13, CR87, CH92, CGG90, CD96, CM07, CGR99, Dai09, DR06, Deo06, Der95, DC94, ĎHPT10, FL13, Fen01a, FG95, FMdB99, FG99, FBMA05, Fre03, FN04, FM06, Gal75, Gal76a, GS81a, GS81b, Gal84, GG86, GG87, Gal92, GPR95b, GBY90a, GBY90b, GF08, GL89, GV00, GHK14, Han93, HY92, HFS05, HR03, HH93b, HM00, HLS+11, HK77, HHLS06, HFN05, Hyy08, IP96, IMS97, Ind98, IS90, II08, JL93, Joh95, JU91, KST92, Kim99, KWL07, KNT11, KS96, KST16, LV86a, LV86b, LV89, Lar99, Lec07, Liu81, LHCK04, LT97, LLL13, Mae90, MNU05, MBY91, ME97, Mha05, MM03, MM07, Mis03, MS95, Mus03, Mus05, Mye99, Nak14, NBY99c, NR00, NKT+01, Nav01a, NF04, NT05, NC06, Neb06, NC92, PLL10, RUG97, Ryt80, Sad93].
string [STK06, Sal12, SW90, SZ05, SMS15, ST96a, SG12, SR16, Spi99a, SV87, Tak96b, TBS06, TPT13, Ukk92, Ukk93, Vin77a, Vin77b, WL15a, WLF14, Yao79, YT03, dB93, GH82]. **String-Manipulating** [VMML15].
String-Matching [BG14, CCG+94, GS80, Gal95, Kha16, Les94, LY86, Moh97, Mut97, Sli78, Sli83, CH04, Cro92b, BR09, CCF13, CW13, CR87, CGR99, DR06, Gal75, Gal76a, GS81a, Gal92, GPR95b, HY92, HR03, JL93, KST92, LHCK04, PLL10, TBS06, Ukk92, Ukk93, dB93]. **string-pattern** [Kim99]. **string-searching** [Mha05, Ryt80]. **string-similarity** [BSY00].
String-to-Dictionary [KS11b, KS12b]. **string-to-string** [Mae90].
stringdist [van14]. **Strings**
[Ale94, BS97, BCFL12, Chu95, Col94b, FT98, Gaw13, GNU94, GL01, ISNH94, KRS95, KRS97, KMP77b, LT03, Lut02, SW09, Ver92, YQW+16, ADR03, ADR06, BLSS03, BFK+03, BC95, CD89, CR91, EH88, ETV88, FT95, GO12, Gus97, JRV96, KGA+12, KMP94, KMP77a, KR97, LS10, Mei15, NR02].
Strong [GGM12, LS06, WD99, AW89]. **Strongly** [Dur94]. **Structural** [BGJ01, KWLL08, Shi00, Shi04, BFS00]. **Structure**

[CGR02, Gia93, Les95, Pol13, Sli78, TMV+01, AP90, CGR03, CD96, FG99, FLSS93a, FLSS93b, KWL07, MP05]. **Structured** [BLLW12, KM94, BGHZ15, Fla88, TMK+02]. **Structures** [Cha01, Cha02a, GHLW15, GG97, Gor00, LSW08, Lar99, Lec98, Les79, ABH+14, BA15, GMC02, HN90]. **stuck** [AEK+11]. **Studien** [SM74]. **Studies** [JM85, SM56, SM74, SS93a]. **Study** [CSY03, FTJ95, JM85, MM02, OP16, PV91, Sca11, Fen01b, PSK08, SKS96]. **Studying** [MGH93]. **Sturmian** [BR09]. **Style** [Cop91, WW03]. **subexpressions** [Fat15]. **subgraph** [KSH+15, SWW+12]. **subject** [ETV88, Sch81]. **Sublinear** [CL94, FG98, CL90, CWZ10, CGR99, FG95, WZ96]. **Sublist** [Jay92]. **Suboptimal** [Cha94, LS94]. **Subquadratic** [WMM95]. **subsequence** [ZKA12]. **Subsequences** [IF94]. **Subset** [CH03, Kin92, Pag78, AB09, CH97b, HW09]. **Substitution** [For02, JSC83, Sch81]. **substitutions** [Pie08]. **Substring** [CIL+03, Har71, Joh94a, Sun90, BSTU08, Gra15, HKN14, IKX15, JKNS00, Maa06, MAI+16, Sto02]. **substring-preprocessing** [Sto02]. **Substrings** [Cob94, Boo80, FGKU15, LO94]. **subtree** [Gro91a, Gro91b, Mäk89]. **Subtype** [WZJH12]. **subtypes** [JM93]. **Succinctness** [Gel10, GN12]. **sufficient** [KT90, MR09a]. **Suffix** [AOK02, ABM08, FL12a, GV05, GLS92, Kid09, LSW08, NR98, Neu10, OR12, Shi00, Shi04, UW93, ACFC+16, BH96, DK13, FCFM00, GV00, HHLS06, Kos94, NR00, TTHP05, Ukk93]. **Suitable** [CCL87]. **Summary** [GH15]. **Sums** [BM00]. **Sup** [MP09]. **Sup-interpretations** [MP09]. **Super** [Fre02, KM95b, Fre03]. **Super-Alphabets** [Fre02, Fre03]. **Super-Pattern** [KM95b]. **Supercomputers** [RND97]. **Supercomputing** [IEE88]. **superimposed** [Ind97]. **Superiority** [Zha07]. **superoptimizers** [BA06]. **superprimitivity** [Bre94b]. **Supersequences** [IF94]. **Superstrings** [Ale94, TY97, Che96, Mid98, TU88]. **support** [CL09, KAT07, Rob92]. **supporting** [CMW87]. **supports** [Nil90]. **surface** [TCCK90]. **Survey** [Brz62, Kni89]. **Surveyor** [Fra83, GHF83a, GHF83b, WNL+83]. **Swap** [AEP06]. **Swaps** [ALLL98a, AAL+00, CCFG12, AAL+97a, ALLL98b, Mei15]. **SWAR** [CL09]. **Symbolic** [ACM94b, Bro93, Cha86, Har79, Lev95, Ng79, VHL+12, WN90, Fat15, Nic03, NA90, Ng79, NEH90]. **Symmetric** [Gil70, SS93a]. **Symmetries** [Hig86]. **symmetry** [Mar89]. **Symposium** [ACM69, ACM74, ACM76, ACM81, ACM83, ACM84, ACM86, ACM87, ACM90a, ACM90b, ACM91, ACM92a, ACM92b, ACM92d, ACM93a, ACM93b, ACM94a, ACM94b, ACM94c, ACM94d, ACM95a, ACM95b, ACM95c, ACM97b, ACM97a, ACM97c, ACM98, ACM99a, ACM99b, ACM00, ACM06, ACM07, ACM08, AP10, AH97, AT02, Bro93, Cha86, DGBH93, FC98, FL08, FJ92, GM11, HM96, Hwa85, IEE89, IEE90, IEE92, IEE93, IEE95a, IEE97, IEE98, IEE09, KS12a, KU09, Len93, Lev95, LV06, MZ07, Ng79, WN90, Win78, AL01, Apo92, Apo93, ACP05, BYCC03, CG94b, GU95, GS00, KLB12, Len11, PC99, SMD04]. **Symsac** [Cha86]. **synchronization**

[JM90]. **Synchronized** [PIT+03]. **Synonyms** [LLW+15]. **Syntactic** [KKSL01, TB00, Wol86]. **Syntax** [BLS+94, AG06, Chl08, Pie08, ZGE85, Zei08]. **Synthesis** [CDL+15, BK86, SW12, WKR09, ZJL14]. **synthesized** [Kod79]. **System** [BM00, CFS+89, DMWW77, Har79, IEE01a, IEE01d, IEE01c, IEE01b, KSWC93, KMT+01, KKSL01, MM02, SF01, Som82, Wol86, AAB+86, BAC12, BH07, GPTV93, KAT07, KMS+03, KLR+08, LHCK04, MI07, TIAY90, WCW82]. **Systematic** [KK95, NAR08]. **Systems** [ACM83, ACM90a, ACM92b, ACM94c, ACM95b, ACM97a, ACM98, ACM99a, ACM06, ACM07, Ano68, Dur94, GHW05, IST05, JM85, KKK11, Kor83, LZ96, Lut02, MUHT96, Mor83, Sar02, CDC96, CFM00, DL03, Fat15, JO97, KKM+85, KN00, KKP92, KEG+08, KLB12, KR95, LLC03, Len11, SD91, WSS94]. **SystemT** [KLR+08].

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