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

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

David Salomon
Professor Emeritus
Department of Computer Science
California State University Northridge
Northridge, CA, USA

22 December 2017
Version 1.130

Title word cross-reference

(l, d) [Tan14]. 1 [Mun07]. 2 [ASG99, BSM+07, BZ98, CR95b, KPR97, LT90b,
OND98, SHCY93, Via02, Via04]. $29.95 [Ano97a]. 3
[BSM+07, CJ93, LT90b, TCCK90]. $65.00 [Ano97b]. 2 [Ram94]. 33
[BGFK15]. 4 [ZLN11]. c [WD99]. c^n [Rob79]. d [CGK08, CDEK95, dRL95]. δ
[CIL+03]. e [HM98, Lif03]. K [COZ09, ALP04, FWW13a, FGKU15, GG86,
GU16, GGF13, Gra15, GL89, JL93, KVX12, NYuR15, NR17, WD99]. L_1
'79 [Ng79]. 7th [HM96, Hwa85, Win78].

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


Abstract [CDL95, Gon02, HOS85b, JO97, LM02, Pre99, AG06, BC93, Chl08, CM95, GPN96, GV00, HOS85a, Pie08, Zei08]. Abstracting [JSH09].


Adjeroh [Neu10]. 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]. Alberto [Ano97b]. Albuquerque [ACM92a]. Algebra [KN12, SS93a, BFS00, Coo86, Fat15, KMMPN85]. Algebraic [ACM94b, Bro93, Cha86, Hea71, Lev95, Mcl85b, Ng79, WN90, BD98, Fat15, Mcl85a, OR11]. Algebras [CM95]. Algol [Bro77, HK77]. Algol-based [Bro77]. Algorithm [AR00, AJ592, ACD01, BST+03, BYN96, Bar81, BC13b, Ben94, Bir10, BM77, Bra94, Bre93, BL16, CF06, CLP98, CF85, Col94a, CH02, CGH+98, FL12a, Gal79, GP90, Gal95, GC01, IMP01, ITO5, IS86, KRS97, KST94, Kü10, KV15, KZ02, LLCC13, LCL06, MW94, MUHT96, ML96a, ML96b, Mye92, Mye98, NBY01, OR12, PS10, POU93, PK85, RPE81, Sad96, Ski98, SW90, Sun90, Tuk86,
algorithm [NR012, Neb06, PLL10, PS90, Per94, Ryt80, SW90, SS94, SYM00, Sto02, Tak96b, Tak93, TZYH14, TM05b, TU88, Tho68, WW03, Wat03, YHv15, ZC99, dB93]. algorithm [Alb89]. Algorithmic [ABBH +16]. Algorithms [ACM97b, AHU74, ALR08, iA94, ADLM96, BY96, BLP94, BS97, BH02, BJM79, BCFL12, CL92, CHL14, Chu95, CHZ06, CLR90, CR92, CCG94, DB86, FL12b, Gal76b, GG97, GS85, GIG77, GKR86, Gsu97, Hig86, HSTS01, ISNH94, JU96, KKP16, KKR87, KPD0c, Khu16, KMT01, Lab12, Lec07, MAC14, MA15, Maa06, Mis03, MS95, Mye99]. algorithms [Val09, VHL12, WZ96, A08, Len93, Ane97b]. Aligned [LSTW17, SN94]. Alignment [BLP94, Ben94, BDFW94, HPM94, JWZ94, KKH0, LPR0c, Pol13, RND97, KL08, LTR08, PDC94, QLY07, Sal12, Sch0a, Sch91b, SZ05, Tai14, THG17]. Alphabets [Bre94a, CLP98, Fre02, KT06, KST12, LPR08, Pol13, RND97, CLT07]. Almost-linear [CGPS13]. Almost-optimal [GR99]. Almost-against-all [LA12, BSTU08]. Alphabets [ABF94a, CR95b, KR94, KRR17, TP97, AGM05, GP92]. Alphabet-Independent [CR95b, KR94, GP92]. Alphabet [AFM94, ABF94a, CR95b, KR94, KRR17, TP97, AGM05, GP92]. Analysing [HH93a, HH93b]. Analysis [AHU74, AJS92, BBH87, FO76, GBR90a, KR92, Les95, Liu88, LS94, Par96, Par98, SJ13, SCFC94, Sca11, SWZ01, WCW82, Yan95, DSv94, GLS07, GB90b, HV93, MAC14, MP90, MAn+08, NA00, SW93, TPT13]. Analytical [VZ97]. Analysing [HH93a, HH93b]. Analysis [AHU74, AJS92, BBH87, FO76, GB90a, KR92, Les95, Liu88, LS94, Par96, Par98, SJ13, SCFC94, Sca11, SWZ01, WCW82, Yan95, DSv94, GLS07, GB90b, HV93, MAC14, MP90, MLM+08, NA00, SW93, TPT13]. ands [Edw07]. Annotate [GGN06, RH81]. and [YCYK08].
BYCC03, CG94b, DT87, GU95, GS00, IEE89, IEE95b, PC99, SMD04.

**Answer** [KKSL01, ADT15]. **Answering** [KKSL01, ZCOZ12, AL08, CDL08, CKC07]. **Answers** [Ano92a].

**Antidictionaries** [STSA99]. **Antisymmetric** [Gil70]. **Antonio** [IEE94b]. **Ants** [Joh01]. **Any** [PW93]. **Apostolico** [Ano97b]. **Application** [GPP04, GT90, Hud89, IK83, MKF91, MGW14, NA90, WKA94, Aki78, CFSK07, Fat15, Lau00, Man76, MW94, MM03, SHS14, TIAY90, WKR09, dILFM07].

**application-database** [SHS14]. **application-specific** [WKR09].

**Applications** [BM00, Brz62, CL94, Gia93, GV05, HSTS01, Hui92, HN05, IEE94b, IEE95b, IIE94, IIE95b, MHKR12, Pol13, Sch95, AS04, Bak93, B+07, Che96, FMD99, FG99, FLSS93a, FLSS93b, GV00, Ind97, KKP92, RTO15, SR16, SW201, VHL+12, WYA+07]. **Applied** [DGBH93, DGBK93].

**Applying** [AK08, SdM01]. **Approach** [AK08, SdM01]. **Approaches** [BM08, vNG01, FBMA05, MR13].

**Approximate** [Aku94, Aku95, AAK+09, AEK+11, ACD01, BNP92, BNP96, BYN97, BYN98, BNP99, BCP02, BO2, BM00, BK93d, Bun95, CJM12, CLS+10, CL90, CL92, CM94, CL94, CCH09, CN02, CH02, CIM+02, EMC96, FN02, Fr06, Fu96, GP90, GV00, HLN09, HSV97, SD91, Sr93]. **Approaches** [BM08, vNG01, FBMA05, MR13].

**Approximate** [Aku94, Aku95, AAK+09, AEK+11, ACD01, BNP92, BNP96, BYN97, BYN98, BNP99, BCP02, BO2, BM00, BK93d, Bun95, CJM12, CLS+10, CL90, CL92, CM94, CL94, CCH09, CN02, CH02, CIM+02, EMC96, FN02, Fr06, Fu96, GP90, GV00, HLN09, HSV97, SD91, Sr93]. **Approximated** [PW93]. **Approximately** [Cob94, Mye95].

**Approximating** [TY97]. **Approximation** [ADLM96, ADLM01, BLP94, CM08, KR89, KW07, TU88]. **April** [ACM74, ACM84, ACM90a, AGS93d, Apo92, SC93, SC96, SC98, SC92].

**Arabic** [Ku11, Ms03, Ms05, ZA87]. **Articulate** [SMT+86]. **Arbitrary** [Nav04a, YH92]. **arc** [GGN06]. **arc-annotated** [GGN06]. **Architectural** [CL90, IS90]. **Architecture** [BTC06, CG87, CF85, HSK+14, LHC93, Lee09, TS05, YP12, FKS06, KRL87, MM07, ZV97]. **Architectures** [TVC12]. **Arden** [LHC93]. **area** [SV87]. **Ariel** [Han92]. **Arithmetic** [Hwa85, MKR12, MP88]. **Arizona** [Apo92, ACM97a]. **Array** [CPW88, GHK+91, LK90, WBA83, DK13, ME97, MM07, LK88]. **Arrays** [AO02, ABM08, GV05, Neu10, Bak78, CR91, DSV94, GV00, HHL06]. **arrivals** [SW201]. **Art** [DGBH93]. **Artificial** [IEE94b, ZGY+16]. **ASCII** [Pol01]. **Asia** [IEE94a]. **Asia-Pacific** [IEE94a]. **Asilomar** [CG94b].

B [Pet95, FG99, FV16]. B-Tree [FV16, FG99]. Back [GH15, ESL89, Lar98]. background [RH81]. Backing [BAP06]. Backtracking [FKP77]. backward [Sal12]. Bad [Len93, MLM*08]. Baesa [Hyy08]. Baesa-Yates [Hyy08]. Balancing [MM02, MM03]. Baltimore [ACM90b]. Banff [A+08]. Barcelona [LV06]. Base [IEE01a]. Based [AOK02, BL16, CDM11, CZCD09, D'A98, FYJ17, FL12a, GR96, HHS3, Kid09, KKSL01, KVX12, KNMM00, LLLCL17, LT09, LS94, Lut02, MU02, Mye98, ND02, PS10, Sad96, SF01, SL17, TMV01, TK07, WPKL13, WD99, WZU14, Yun12, AF198, ASM17, Ano96, ARS16, BC06, Bro77, BFS00, CW13, CLP95, CK08, DLF15, Far92, Gan89a, Gre88, Ier09, Ii08, Ks07, KN00, LLL12, LHCK04, MLM08, Mye99, NRO12, PD12, S05, TM04, TF07a, TP07b, TPT13, WL15b, WSW16, WHZ17, YT03, ZV97, ZZ12, ZYX12]. Bases [AAC01, B+02, Gon83, ABB93]. Batched [Man86]. Bayesian [SD91]. Be [Cox07, LY86, PW93, Sch91a, Sch91b, AK09b]. Beach [HM96, CVP86, IE97]. Beam [DMWW77]. beams [NA90]. Beating [ZGY16]. beats [THG17]. Beautiful [OW07]. BEG [ESL89]. Beginning

8

[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].


Chaos [ZGY+16]. Character [CLP95, Dav73, HZ13, HH93a, TMK+02, Wol86, CT96, HH93b, Per94, Vin77a, Vin77b]. Characterisation [KST12]. Characteristic [ISNH94]. Characteristics [HH83].


Code [AGT89, Cox12, Fra83, GHS82, GHF83a, GHF83b, Gie90, ND02, RTT02b, SED14, VSM87, WHZ+17, WNL+83, AG06, BDB90, CLS95, FHP92, Gan89a, GHS82, HV93, MRRB00, NAR08, OW07, Rém17]. code-generator [FHP92].

Coded [BG95, Chu95, BC95].Coder [MP88]. Codes [YK11, Bra90, Mei08].


Columbia [ACM92d, ACM94, MG94]. Com [Lia84]. Com-puter [Lia84].

Combating [KEG+08]. combinator [Sta89]. Combinatorial [Ano17, BM08, Cro92a, GIMV03, Mei08, SLT8+16, 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]. combinator [LT90a].
Combining [Ber00, JA17, 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, JT96, 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, GH82, Pet92, vNG01, AJ89a, FKSBO6, HWF90, Jor92].
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]. Complexity [ABBH+16, BKLP97, BDFW94, BCT94, CT98, Col94a, CHPZ95, CH97a, EZ74, GG91,
GG92, GH6, GH15, He01, HK11, HSTS01, KLH16, MNS10, Mor83, RS98,
Akl78, Alb89, AK12, CG90, CGG90, FCFM00, FK96, KS07, LM12,
LM13, LMM16, Mag81, Man76, NF04, PS89, PAG09, Sal12, Via04, Tao79].
components [CFM00]. Composite [XK92]. composition [SV90].
Comprehension [BL94]. Compress [GH82]. Compressed
[BR09, BA16, BKL97, CHLS07, CLS+10, CHP92, FT98, FV16, FT04,
GP01, GP03, Gaw12, Gaw13, GV00, GV05, IST05, KST99, Kid09, KS05,
KS06, LW08, Loh10, Man94, Man97, MHT09, MMH+01, NR99b, Nav01c,
Rao95, STA99, TMK+02, YK11, ZMS93, ABF94b, BCG98, BF09,
BBK12, CP97, FT95, GR99, GO12, HPS06, 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, RT17, Sad96, SKF+00, SC93, SC95, SC96, SC98, SC99, SC01, SC02,
SC03, SC04, SM09, SM10, SM11, ASC99, AGS96, BFN10, Cha93b,
CADC96, CL96, How96, Lar99, OW03, QZC17, RTO2a]. COMPSAC
[IEE95b]. computable [EH88]. Computation
[Bro93, COZ09, Cha86, Lev95, Ng79, Rao94, WN90, CCI+13, Han02, Maa06,
NA90, PS93a, QZC17, TAK96b, YTO3, ACM94b]. Computational
[Lab12, GUS97, HN11, Val09, Via04]. Computationally [HT14].
Computations [FKP77, CR91, NEH90, PRA97, PCS99]. compute [MS95].
Computer
[ACM89, AU74, Bao93, Cop91, FI92, Hea71, Hua85, CV86, IEE89, IEE90,
IEE92, IEE93, IEE95a, IEE95b, IEE97, IEE98, IEE09, Kii10, RJK97, SS93a,
Coo86, Fat15, Gus97, IH99, Ker04, SS94, VV04, Wn78, iA94, KP15].
Computer-Recognized [RJK97]. Computing
[ACM69, ACM74, ACM76, ACM81, ACM84, ACM86, ACM90b, ACM91,
ACM92d, ACM93b, ACM94d, ACM95c, ACM97c, ACM99b, ACM00, ACM08,
Concatenation [CGS17]. 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, Bum94, 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 [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, KRR17, Sto96, BGM13, Gal92].
Constant-Sized [KRR17]. Constant-Space [GPR95a, CGR99, BGM13].
Constant-Time [BGG12, CGG+97, Gal95, Gal92]. constants [KC11].
Constrained [CS11, CLT07, XJT+04, ZJL14]. Constraint [Coh90, CFK07, SM91].
Constraints [GRS99, ZGS+15, CDL08, HW09, KS11a]. constructability [Kar82].
Constructing [TY02, Lei80, JRV96, TU88, TTHP05]. Construction [BP03, BH96, DFP11, FCFM00, Kos94, Mei08]. Constructions [Ant95, Ant96, Che96]. constructive [Tak96a]. Containing [HJ99, CFM00].
Containment [FLS98, CDL08, HN11, SH85]. content [LMT16, MLC08, TLL09]. content-based [MCL08]. Context [CK02a, Haz01, Hua94, Kea91a, SBHM94, SA96, KGA+12, Mye95].
Context-Free [SBHM94, KGA+12, Mye95]. Context-Sensitive [SA96].
Correction [And02, Bur84, JP73, RJK79, Wag74, BYS00, Mae90, MS95, TIA90]. Correctness [Sto02, SBR+07]. correlated [SWZ01]. Correlation [KC99, Sha93, WZJH12, PPZ08]. Correspondence [Sp99b].
corresponding [Li03]. Corrigendum [FLSS93a]. Cortical [TMV+01]. cosine [TP07a, TP07b]. costs [PW06]. Counter [WPKL13].

Counter-Based [WPKL13]. Counters [LT09]. Counting [CGS17, 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, GN11, HM96, KS12a, Ku09, LV06, MZ07, PC99, SM04].

CREW [dB93]. Critical [Lut02]. Crochemore [Bre93, Bre96]. Crochemore-Perrin [Bre93, Bre96]. Cross [FTJ95, KNS12, Sha93].


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, FAA02, Gia93, GG97, Gon83, GS85, Har02, KM94, LSW08, LKL02, LM01b, LS94, MMS14, Neu10, Pre99, RPE81, Sad96, Sli78, SW94, Sto92, SC93, SC95, SC96, SC98, SC99, SC01, SC02, SC03, SM09, SM10, SM11, TV14, VMML15, WCM+94b, YDDB15, ABB93, AL08, BGH75, BFP+08, BFS00, BC93, Cha93b, CDC96, CD96, FG99, GM02, GW92, GS93b, GPN96, GHS12, GS06, HN90, HSL10, JO97, JD89, Kra08, Lar99, LWS+16, Nil90, OR11, RW93, RM06, SMS15, SG16, TG96, Wad87, WCM+94a, SC04, SC05].


Definitions [IEE01a]. deformation [BCWG09]. Degenerate [IMR08].
degree [HY90, LSV08, YH91]. degrees [YH92]. del [ACM69]. deletes
[Mei15]. Denmark [AH97]. denoising [CDDM05]. Denotational
[Gud92, Ma93]. denoting [HSJ04]. density [Sel84]. Dependence
[KK95, AFM94]. dependences [BD98]. Dependent [Hua94]. Dependently
[Xi03]. depth [Alb89]. Derivation [Mis03, BGJ89]. Derivative [SL17].

Derivative-Based [SL17]. Derivatives
[Ant95, Brz64b, CJM12, CDJM15, Ant96, ORT08, ORT09]. derived [PS90].
derivors [Gie90]. Described [KPR97, KPR00, SA96]. DescribeX
[CMRV10]. description [CDL08, FKS06]. Descriptive [GH15, LMN16].
Descriptions [KRS95, KRS97, SC88]. Descriptive [GR96]. descriptor
[All82]. Design [AHU74, Bir10, Bur84, HL97, OF61, Ski98, ZA87, Bur82,
CMS08, Hur84, KCKO3, MI07, SW12, WKR09]. designers [LS99].

Designing [II09, Mor83, SB09, DC94]. desukutoppu [SM04]. Detecting
[Mut97, TMV+01, Mar89, Mha05]. Detection
[CZCD09, KKKK11, KNMH00, Lee91, Les79, PAMP12, Sli83, TS05,
WWW+16, ZLN11, ACF05, BAC12, FNP09, Joh94a, KOI94, KAT07,
LHCK04, OK94, QLY07, SA77, TBS06, VD17]. Determinism [GGM12].
Deterministic [BGNV10, BWK92a, BWK92b, GZ94, GMS12, Ind97, KV15,
LY86, Ned98, TLLL07, WV11, Vis90, Vis91, BS86, GHR+16, Lau00, LMN16,
NdMM02a, SY09]. developers [LS99]. Developing [MNNS12].

Development [JLHB92, LHCH93]. Developmental [YCK08].

Development [PV91, OKT92]. Devices [HAR10, Sym85, CMS08, Pet07].

DFA [BC13b, CP97, NYuR15, NR01, PW93, VWR11]. DFA's
[CHP92, FDG+11]. Diagnosis [SL17]. Dictionaries [Bre94a, Owo93].

Dictionary [And02, Bre94a, Bun95, KS11b, KS12b, AF92, DLF+15].
dictionary-based [DLF+15]. Dictionary-Matching [Bre94a]. Diego
[ACM92b, ACM93b, St920]. different [YB13]. Differential
[FDG+11, PS93a]. Differentiated [ZLN11]. differentiation [PS93a].

Diffusion [MSP+17]. Digest [CZCD09]. Digital
[AGS93a, AGS93c, AGS93d, AGS93b, JRV96]. Digitized [LV94]. dimension
[Bak78]. Dimensional [ABF94a, ADLM96, BYN98, BKLP97, CDEK95,
CL95, CHHT14, CR92, CR95b, CGPR95, CGH+98, CIK98, FU98, FNU02,
GPP04, Gia93, GG95, GG97, HEWK03, HW12, KPR97, KPR00, KU99,
KR94, Les79, Les95, Par96, ZT99, AK08, AF92, ABF94b, ABC+04, AKT06,
AGM05, ADLM01, BYR93, B777a, CGK08, CRR93, CR94, GP92, HLN09,
JKNS00, Mid96, NYB99a, Par98, TIT83, WC14, XMCL11]. dimensions
[CCG+93, DRL95]. Directed
[Fu95, Fu96, Fu97, Gud92, Kor83, BÖ13, Dan91, Nil90]. Directly

discourse [Kit94]. Discovering [LSTW+17, SW93]. Discovery
[VG01, WCM+94b, MP05, WCM+94a, WZS95]. Discrete
[ACM97b, Gm73, KCC99, Nak14]. Discrimination [KC87]. Disease
[TMV+01]. Disease-Specific [TMV+01]. Disjoint [LS10, YD95].

ECG [TZH+13]. Edinburgh [AOV+99]. Edit [JWZ94, RKH02, AEP06, AK12, BC95, CM07, Leu97, LT97, QWX+13, SKS96]. Edited [Ano97b]. editing [DOS93]. edition [Ano17]. Editor [Pik00, Ritxx, Ano17]. Editorial [AGS93a, AGS93c, AGS93b]. education [Ker04]. effect [Mha05]. Effective [AG06, FKSBO6, ZGS+15, KC11, PCO2, ZKA12]. effectively [ADT15]. effectiveness [BSY00]. Efficiency [ALR08, San15]. Efficient [AC75, ACR01, ALV92, ALLL98a, ALLL98b, BDB90, BC13a, BA15, BC13b, Ben94, BBH+87, Bra94, BC94, CG95, CF06, CCF13, COZ09, CGR02, CDDM05, CCI+13, CLT07, EMC96, FT04, FM06, GC01, GP01, GP03, Gaw12, GLS07, Gon83, Gue90, GS06, HL10, HW12, KR81, KR87, KRS97, KS94, KKK11, KRR17, 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, VDL17, YKGS11, YB13, YHV+15, ZKA12, ZYX+12]. Efficiently [ADR15, DF00, Kim99]. Eighteenth [ACM86, ACM99a]. Eighth [ACM97b, B+02, ACM76]. Electron [DMWWW77]. Electron-Beam [DMWWW77]. Element [MGH93]. Eleventh [ACM92b]. eliminants [AS85]. Elimination [Han13b, CK04]. Embeddable [Frik7b]. embedded [TLLL07, TLLL09]. Embedding [BDFR08, Fu97, ZCÔZ12]. embeddings [CMÔ+08]. Emergence [Joh01]. Empirical [CL92]. emptiness
empty [Zia96], emulator [VVV04], enabling [AB09], encoded [DS04, KS01], Encoding [HAR10, KR92, RTT02b, Yun12, FDG+11, KR89], Engine [CZCD09, Ha04, VCS+12, BC06, CW13, WL15b], Engineers [NEH90, Lut02], ensembles [Alb89], entails [Kar82], entire [YCJ08], entity [DLF+15], entropy [KS96], Entropy [YDDB15, CR95a], Entropy-Scaling [YDDB15], Enumerating [McI04], Enumerative [JA17, Tan14], Engineers [ABBH+16, TBS06, ZV97], enough [MR99a], encoding [DS04, KS01], Encoded [KU99, CL90], experiment [GHS82], Experimental [ACR01, GIMV03, HBRV10, Lec95, JLFL14], Experiment [Lec98], expert [Wen93], exercises [BH07], exhaustive [IM13], exit [MOG98], expanding [Ham88, VHC88], Expansion [CFG85, Gue90], Expect [Fri97b], Expected [KU99, CL90], experiment [GHS82], Experimental [ACR01, GIMV03, HBRV10, Lec95, JLFL14], Experiments [Lec98], expert [WSS94], experts [B+07], Explicit [For02, CKF07], Exploiting [Kul11, MKF91, KMM+06, Rém17], 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, Goi93, Han13a, Hol84, Ier09, KM92, KM95a, KN12, Lee09, LT16, MPN+14, Mye92, MOG98, NR99a,
NR01, Nav01c, Nav04a, NR04, PPA10, Ric79, Sca11, SM99, SL17, VCS+12, WPKL13, WMM95, YP12, YQW+16, vNG01, BAC12, BvdM17, BFC08, BFG09, BFS04, BH07, COZ09, CJBW13, Chi17, CLT07, CGPS13, Cox10b, DF00, FGD+11, Fos89, Go05, HN11, Hos06, HVP00, HP01, HP03, HVP05, KS08, Kar82, Kera7, Lee82, Lei80, Lif03, M114, ORT08, ORT09, PCS99, RTO15, SJ13, SCF+17, Spe85, Stu03, Stu07, Tho68, WL15b, WW03, YKGS11, YCJ808, YB13, Zia96, ZC99, ZYX+12, dLFM07.

Expressions
[AM91, Ano68, Ant95, Bac94, BF97, Ber00, BGNV10, Bra94, BC94, BK93a, BK93c, Brz62, Brz64b, Brz64a, Brz65, CDLV99, Cam99, CSY03, Cha01, Cha02a, CLOZ04, CJM12, CDJM15, CGR02, CC97, CGS17, CDL95, Dav03, Dav04, DM11, FLS98, FU82, Fri02, GGM12, GN12, Ghi62, Gil70, Gia67, GH13, GH15, Hab04, HNM98, Ham88, HW06, Han13b, HJ99, Hir96, HK11, HSW97, Hum99, IY02, KT06, KU87, Keg19a, KP99b, KP99c, Kin92, KV15, KZ02, KST12, LS99, LS06, LZH98, LM01b, LT09, Loh10, M001, MNS10, MY60, MR09b, MPds12, Org03, OF61, Pak91, PM78, Pat71, Pet02, Pre99, Ray96, Rez92, SA96, Sch99, SSSS10, Sou99, TV14, TB00, Uma97, VCS88, Wen93, WZU14, XK92, Yam01, GZ95+15]. expressions
[AFI98, ANO97a, AGM05, AM95, Ant96, AOMC07, ACM02, BCG07, BHY96, BRL13, BTOG83a, BTG83b, BDF08, BS86, BNSV10, BK86, Bra95, BK93c, BK93b, CRO3, CP97, CK02b, CK08, DL03, EZ74, FLH10, Fr07a, Fri06a, GLA11, GG92, Ge10, GL03, GL12, GMS12, GIO9, GUe90, HW07, HY90, HWJ03, HSJ04, HN00, Jan85, JSH09, JSP09, KAL06, KGA+12, Kin91, Lar98, Lat00, Lei85, LVS+16, LR14, LM12, LM13, MN16, Mag81, MMdJ11, Mor02, MZZ10, MM99, Nie03, PC02, PI+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, MFRW90]. 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, Keg19a, MSRR00, PMS11, WLF14, Bak78]. Extensible [BAC06, SNM07, BFN+09]. Extension [Lin86, SNM07, MMdJ11]. Extensional [DRW95]. extensions [Mis89, Wea94, WKR09]. External [GIK97, FG99]. extracting [BGHZ15]. Extraction [FKRV15, Kea91a, DLF+15, Kit94, KLR+08]. extremely [AK80].

F [Ano97a]. FA [CKW09]. faces [KSW93]. Factor
[ADR03, ADR06, BRY92, BYR93, BYP96, BYG96, BYN98, BC13b, BS97, BFC08, BM77, Bre95, BL16, BFK+03, Bun95, CLP98, CR95a, Ch95, Cob94, CP10, Cox07, CCG+99, FL12a, Fen01a, FNU02, Gal76b, GS80, Gia93, Gil85,
HAR10, HS91, KST94, KKS01, KMP77b, KMP94, KMP77a, KVX12, KNMH00, KRML09, LV89, Lec07, LT16, LCL06, Man94, Man97, MUHT96, MPN+14, Mon17, Mye98, NR99, NBY99a, NR00, NR01, Neb06, Ott94, OM88, PPA10, Quo92, Sen00, ST96a, SNZBY00, Sun90, Tar91a, Vis91, WM92b, WM92a, YKGS11, Zha17, AK08, AG84, CDC96, CNPS15, CGG+93, Coo89, Der95, DC94, FDG+11, II86, KTP10, LHCK04, Mye99, NBY99c, Nav01b, PS90, RM06, RW10, SW90, Tak93, TLLL09, Vis90, WL15b.

HydroJ [LLC03].

I/O [PSK08]. IBM [HKL +14, Wei84]. ICL [CPW88]. Icon [Gri83, Wal89].
Iconic [GL86]. ID [BDD98]. Ideas [Bee81, Wol90a, Wol90b]. Identification
[Coh94]. 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, How96, KS05, YCJ90]. Imaging
[AGS93a, AGS93c, AGS93d, AGS93b]. Immerion [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, COM +08, CM08, GGS6, GP90, Han13a, IS86, KV15, KZ02, LSW08,
Nav98, Nav00, Pol13, Tan14, BC95, Oph89]. Improvement [Cha87].
Improvements [CK92]. Improving
[Bir77b, DHPT10, Gal79, Hyt08, NYB01, YQW +16]. In-
MPds12]. In-degree [LSV08]. In-place [HTX17]. Inclusion [CGPS13]. Inclusive
[MIH17]. Incomplete [NCKL14, Ritxx]. Incorporate [SK96]. Increased
[HFN05]. Increasing [HR00]. Incremental
[FWW13b, HKR92, Mey85, ISEY88]. Independent
[ABF94a, CR95b, KR94, GP92]. InDesign [Kah06]. Indeterminate
[SW09]. Index
[CGR02, CN02, Cox12, Gia93, Man86, Zve80a, Zve80b, All82, CGR03,
HLS+11, KWL07, KWL08, KST16, NC06, TPT13]. Index-sensitive
[TPT13]. Indexed [GCA02, GO12, Sen00]. Indexes
[CLS +10, KRR17, CHLS07]. Indexing [GL86, GV05, KKK01, LMR14,
LM01b, NBY99b, SWY75, GV00, HA102, SJ13]. Indianapolis [DGBH93].
Indirect [Dsv94]. Inductive [CL09]. Inference
[BNSV10, BGNV10, JM93, Van06]. Infinite [KT06, KST12, SMDS94]. Infix
[HHW06]. InFix-Free [HHW06]. Inflexional [TB00]. Influence [FT95].
Inform [Gro91a]. Information [FKRV15, IEE01a, IEE01d, IEE01c, IEE01b,
LZ96, MKF91, MSP+17, SD91, Snu01, Kit94, KLR +08, SHS14, SKS96].
Informative [IEE01b]. Inheritance [Mor02]. Inner [BF97]. Inputs
[CGP +08]. Inspection [LLLL08, WWR11, YP13, ARS16, BAC12, NYR15].
Inspired [GWv10, 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 [JLBHB2].
Interaction [HR00]. Interactive [Han02, MR05, BH07, DPK11, MI07].
interchanges [Chr96]. interconnection [KRL87]. Interest [DT87]. interests [SW93]. Interface [IEE01a, IEE01d, IEE01c, IEE01b]. Interfaces [IEE01d, PW06]. Interferences [FTJ95]. Interleaving [CGS17, Gel10].

International [ACM94b, ABB93, AGS93d, AAC91, 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 [MP99]. Interpreter [HOS85b, Mae94, Eck89, HOS85a]. Interprocedural [WHZ+17].

Intersection [GN12, HL10, Pet02, CP10, Gel10]. Interval [Via02, Via04, WSS94]. intractable [FLM+10]. Interacting [LV86b]. Introduction [Bir77b, CM86, CLR90, GS93a, PG90, SC88]. Intrusion [CZCD09, KKK11, TS05, ACF05, CAT07, LHCK04, TBS06]. Intrusions [KNMH00]. invalid [SMS15]. Invariant [FU98, LT03, ZC89, Deo06, MNU05].


Isomorphism [BJM79, Gro91a, Gro91b, KSH+15, Mäk89]. Israel [AL01]. ISSAC [Lev95, WN90]. ISSAC’93 [Bro93]. ISSAC’94. [ACM94b]. Issue [Ano17, Cro92a, IEE01a, IEE01d, IEE01c, AGS93a, AGS93c, AGS93b]. issues [IS90, San15]. Istanbul [SMD04]. Italy [AAC+01, Apo93, FL08, GM11]. Iterable [LM02]. iterated [Jan85].

Jan [Ano12]. January [ACM87, ACM92a, ACM93a, ACM94a, ACM95a, ACM97b, USE92]. Japan [AT02, IEE94a, WN90]. Java [Ano96, Cal00, CGM06, Dwe00, FR00, Hab04, LM02, MFRW09, Mor02, NAR08, SM04, Sto07]. Java-based [Ano96].


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].

Languages [ADR15, Ano68, Fre96, 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, Mal03, MLC08, RW93, RTO15, SC88, SNM07, YIA89, Zia96, DWE89].

Languages [ACM92a, ACM93a, ACM93a, ACM95a, BLLW12, CM58, HWW06, Hud89, KT06, KP99e, KLH16, Kor83, KST12, ND02, SA96, Sch13, Wag74, ACM87, AGM05, AOMC07, BRL13, BLSS03, BKKW92a, BKKW92b, Coh09, Dit78, FHDAF09, HWW07, HWJ03, HSJ04, HW09, KF91, McI04, MZZ10, Mye95, PFP08, Sch88, Smi91, dLFM07, BGNP94]. Large [AAC+01, AOV+99, BH85, B+02, LP13, VB98, WHZ+17, ZMSD93, ABB93, BC13a, CD96, HAI02, LYWL08, Owo93, RW10, YHV+15, ZD95, ZCÓ09, ZCÓZ12].

Large-Scale [LP13, LYWL08]. Larger [GZ94]. latch [Fos89].


Left-to-Right [NWE97, Nd98, Tak96b]. legacy [Joh94b]. Leif [SC88].


Lexical [HKR92, Van95, ISHY88]. Lexico [KKSL01]. Lexico-Syntactic [KKSL01]. Lexicographically [Boo80]. Lexicons [ZMSD93, ZD95].

Library [AK09b, CL95, EU98, Ano01, Cox10b, PSK17], library-defined [PSK17]. life [CM90]. lightweight [BFN90, SNM07]. Like [GHJW15, Hol84, HK11, BTG83a, BTG83b, Mis89, YH91]. Lille [KU09]. Limitation [Kù10]. Limited [HAR10]. Line [FG98, GG97, Lut02, Sls01, Tak86, Bhu08, CL95, CT96, FG95, Fre06, Gal75, Joh95, KNT11, NR02, NEL17, Rot91, TTT83]. Linear [BJM79, Brz65, Cha94, Cha02b, CGS17, CH03, CR95b, CGPR95, GSS1a, LK90, LO94, Pat71, PRU11, RPE81, SSS10, CGPS13, EHH88, ETV88, GFG11, GMS12, HKN14, IKX15, KKK+13, LK88, Rep98, SYG00].

linear-space [IKX15]. Linear-Time [CR95b, GS81a, HKN14]. Linguistic [Haz01]. Linguistically [GWG10]. Link [LTL04]. linked [BAP06]. Linux [Bhu08, Qui00]. liquid [VLP17]. LISP [ACM92c, JLHB92, Kod79, Mu95, MuT95, Mun95]. list [dSOM15]. list-of-functors [dSOM15]. listless [Jay92]. Lists [Gil85, BAP06].
BYP92, BYCMW94, BYN96, BY96, BYN97, BYN98, BY99, BEM+12, BCP02, Bee81, BH02, BH85, BKL97, BL94, BM00, BBL93, Bow87, BG92, Bre93, Bre94a, BCT94, BG95, BTC98, BGG12, BU14, BTC06, BL16, BK03d, Bon95, BZ98, BG01, BCFL12, BCC+13, CF06, CFM17, CD011, CK02a, CSM+10, CL92, CM94, CL09, CLP98, Cha02b, CN02, CTF+98, CZCD09, CHL14, CJBW16, CK92, CDEK95, CG94a, CLP95, CM08, CL95, Chu95, CW84, CHZ06, CJP12, Cob94, Col94a, CHPZ95, CH97a, CH02, CH03, CHL14, Col94b, CG79a, CG79b, Cox07, Cox09].

Matching [Cox10a, Cox12, CP91, Cro92a, CRG94, CRR95b, CGPR95, CGG+98, CIK95, CIM+02, CIF+03, D+98, 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, GS09, GA11, GP90, GG91, GG92, Gal95, GP94, GI97, GP01, GP03, GIMV03, Gav12, Gav13, GP93, GM02, Gia93, GG95, GG97, GM11, Gil85, GZ94, Gon92, Gk86, Gri79, Gw83, GL01, Gro92, GL86, GV05, GMN12, HD80, Han3a, Har92, Har97, HAR10, HL10, HT14, Haz01, He71, HEWK03, He01, HL97, HH39a, H902, HST01, How97, Hui92, HW12, HN02, HS09, IS94].

Matching [IMP01, IMR08, IST05, IS86, IK83, JGZL12, JSC83, JTU96, KPR97, KPR00, KU99, KS12a, KR81, KR87, KRS95, KRS97, KP93, Kes79, Kha16, KRTA99, KMT+01, Kid09, KST94, KKS01, KKK11, KS06, KS11b, KS12b, KM92, KM95a, KM95b, KMP77b, KL16, KRR17, Koe83, KK02, KR97, KU09, KNS12, Kül10, KVX12, KNMH00, KC99, Lab12, LSW08, LV94, Lav91, LP13, Le 91, LM01a, Lee95, Lee98, LKL02, Lee09, LT03, Les95, Les94, LV06, LY86, LTL04, LLLL08, LA12, LLC13, LLC17, LP11, Liu86, Liu88, LM02, LT16, LCM06, LLW+15, LS94, Lux02, MZ07, Maa06, MS98, MKF91, MU02, MW92a, MW92b, MGW14, MHT09, MUHT96, Mcl85b, MP+14, Mel95, Mey85, MM02, MIH17, Moh97, MS01, Mon17, ML96a, ML96b, Mu 95, MuT95, Mun07, MR92, Mut07, Mu00, Mye92].

Matching [Mye98, Nao91, NR98, Nav98, NBY99a, NBY99b, NBY99b, NBY01, Nav04b, NWE97, Ned98, NdMM02b, ND02, NCKL14, NEL17, OR12, OP16, Ott94, OMS98, PDL98, PAMP12, PS10, PK95, Par96, PV91, PPA10, PW95, Phi94, Pol13, PP09, Port93, PK85, PS93b, RR90, RR92, Rao95, RM88, RT02b, RS98, Ric79, RKKH02, RP81, RT17, Sad96, SV94, SM04, ST10, SCFC94, SN92, Sca11, Sch95, SRR92, SRR95, Sha93, ST5a99, SKF+00, Sh00, Sh04, Shi92, SSSS10, Sim83, Sim94, SF01, SM01, Sli78, Sli83, SW09, Son82, Sp09b, Sto96, ST95, ST96b, ST04, Tak86, Tak94, TMK+02, TS05, TZW94, T93, TP97, TMV+01, TK07, TLC15, TVCM12, UW93, Ukk10, VSM87, VB12, VWR11, Vae02, VG91, VRD01, Vis91, Vis99, VS01, WPKL13, WSW16].

Matching [Wat96, WKA94, WD99, WBA83, Wri94, WM92b, WM95, Xi03, YP12, YP13, YGW+16, YK11, YJ84, Yun12, ZZ12, ZS17, ZS13, Zha17, ZLN11, ZT89, Zue96, de 82, van14, TL12, AMB+02, ADR03, ADR06, AK08, AK09a, Ak78, Aku95, ASM17, Alb89, ACF05, AGS99, ALV92, AF92, AFM94,
ABF94b, AAL+97a, ALLL98b, AL01, ALP04, ABC+01, AKT06, ALLS07, AAK+99, AEK+11, ABH+11, Ane97b, Ane01, AG84, Apo92, Apo93, AH97, ACP05, ADLM01, AGS96, AD11, AGW13, AG06, BFKL13, BY93, BFP96, BYCC03, BSY01, Bak78, Bak93, BDB90, BCD98, BEM+13, BSTU08, BGF15, Br09, BA15, BA16, BKB+14, BLLP90, BLPL92, BFC08, BFG09, BGW12, Bir77a, BGJ89, BÖ13, BBL98, Bra90, Bra95, BBK12, BBHK14, BG90, BC91, BCT93, Bred95, Bre96, BGM13, BKS02, BFK+03]. matching [BC93, BEL04, CGK08, CPT92, CCF13, CS98, CPW88, CF88, CK04, CMM10, CL90, Cha93b, Cha93a, Cha87, Cha02c, CRV06, CJ93, CR95a, CLS95, CDDM05, CW13, CJBW13, CFKT17, CNPS15, CH04, CS11, CR87, CWZ10, CJPS13, CP14, CP10, CH92, CCG+93, CH97b, CGG90, CT96, CD89, Coo99, CM07, Cro92b, CRR93, CG94b, CR94, CL96, CRR99, CCG+99, CKC07, Dai09, DR06, DS04, DOS93, Deco95, Dij97, DijXX, Dit78, Dow91, Dow93, DC94, DGM90, DHPT10, FLM+10, FWW13a, FWW13b, FC98, FT95, FL13, Fat15, Fen01a, Fen01b, FG95, FMd99, FG+11, FBMA05, Fre03, FN04, FM06, Fri79b, Ga90, Gal75, Gal76a, GS81a, GS81b, Gal84, GG86, GG87, Gal92, GP92, GP95, GR99, GU16, GS00, GF13, GG13, GMC02, GW92]. matching [GBY90a, GBY90b, GPN96, GF08, GFG11, GGN06, GL89, GV00, GS06, HW90, HY92, HLS07, HF505, HC87, HR03, HH93b, HM96, HM00, HLS+11, HBR10, HP01, HP03, HK77, How96, HLN09, HHL06, HFN05, Hyoy90, J97, J98, J99a, JU91, KTP10, KSVJ15, Kas08, KN00, Kes01, KTS+98, KMS+03, KST92, Kim99, KWL07, KEF+14, KNT11, KS01, KS05, KMP94, KMP77a, KS96, Kos99, Kos94, Kri09, KKR+13, KST16, KGP+05, KT90, LMM17, LV96a, LV96b, LV99, Lar99, Lec07, LCC03, LH13, LH03, LS08, Liu81, LHCK04, LBK08, LO94, LT97, LLL13, MCF+11, MK00, MNO05, Man76, MBA91, MZ10, Mar07, ME97, MAI+16, MP05, McS85a, MM03, MM07, Mis03]. matching [MM+01, MR90a, MA12, Mun95, Mus03, Mus05, MS99, Mye95, Mye99, NYuR15, Nak14, Nar91, NYY90c, NRO90, Nav00, NKT+01, Nav01a, Nav01b, NR02, NF04, NT05, NC06, Neb06, NWE99, NdMM09a, NC92, NR7, NK07, Nil90, OK94, dSOMY15, OR11, Opia89, OW03, PS99, PLL10, PPT+15, Par98, PS90, PC99, PP94, Per94, Pet07, PMS11, PPZ08, PDC94, QZC17, Quo92, RM06, RTO02a, RUG97, RTO15, Sad93, SY97, ST06, Sal12, SW90, Sch81, Sch91a, Sch91b, Sch88, S05, Sen00, SS94, SGM00, ST96a, SN04, Sh97, Sil77, SR16, Smi91, SSD14, SHCY93, Spe59, Sp99a, Sri93, SA77, Sto02, SWW+12, SV07, SMN07, Tak96b, Tak93, TBS06, TZYH14, TM04, TM05b, TM05a, THG17, Th93, TIT83, TLS16, TLL07, TLL09, TCC91, Uuk92, Ukk93, Val09, Van06]. matching [VLP17, VW11, Vila04, Vin77a, Vin77b, Vin90, Vol12, Wad87, WZ95, WGMH13, WL14, WC14, WL15b, WZ96, WW03, Wat03, Wae94, XML11, YKGS11, Yao79, YT03, YB13, ZMA03, ZZH10, ZZH16, ZA17, ZYX+12, d93, dRL95, GH91, JD98, 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, Che96, GHST17, II86, Ukk92, Rep98].
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, ACM100, ACM08, Apo92, DT87, KLB12, SW94]. Mean [Alb89]. Means [Ray96, SS93a, OW03, WD99].
Measurement [Lee91]. measures [EZ74]. Mechanical [NEH90]. mechanics [NEH90].
Mechanized [Rep98]. media [VD17]. meet [KSVJ15]. Meeting [NEH90].
Metric [BCP02, CN02, ZCS+12, EH88, Mag81, NC06]. Metrics [LP11]. Mexico [ACM92a, BYCC03]. MFC [AS04]. Miami [CV86, IEE97].
Michoacan [BYCC03]. Microcomputers [ZA87, ZGE85]. Miller [CR91].
Mining [GRS99, ZKCY07, MR13]. Minneapolis [ACM94c, SW94].
Minnesota [SW94]. Miranda [Tur86]. mismatch [AEP06, Neb06, Sel84].
Mismatches [AW89, AJ89, BST103, ALP04, Der95, FGKU15, GG86, GG87, GU16, GGF13, Gra15, GL89, LV86a, NR17, SZ05]. Missing [DCM15].
Montreal [ACM94d, GS00, Lev95].
Moore [Ber90, Col94a, DR06, ECM96, 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
[Neu10]. Multi [CJ93, FMDb99, GG95, GG97, Har02, LT03, LT90a, OR12, TIKZ+02, WSW16, Alb89, ARS16, CPT92, CCG+99, ETV88,
JKNS00, KTP10, OW03, XMLC11, YT03]. Multi-attribute [Har02].
multi-pattern [Alb89, CPT92, CCG+99, KTP10]. multi-resolution
[OW03]. multi-striding [ARS16]. multi-string [YT03]. multi-text [YT03].
Multi-Thread [OR12]. Multi-Track [LT03]. Multi-view [CJ93].
Multicast [Sch95], multicharacter [CW13]. Multicore [YL3, ZLN11].
Multidimensional [SN92]. Multidisciplinary [Kni89]. Multidisk
[KCK93]. multibyte [TMK+02]. multilingual [ZV97]. Multimodal
[BWG12]. Multipattern [STK06, YU12, ZS13, BBK12]. Multiple
[BYN97, BL94, CF06, CDP12, FL12b, Gau12, IS94, IS96, KTS+98,
KMT+01, LLLC17, LT90b, LBK08, Mut00, OR12, PW95, SVS97, TM05b,
VWR11, CK02b, Dai09, Fen01a, FN04, FNSN05, KI15, Maa06,
Mha05, NF04, PC02, PW06, WL15a, WZ96, ZC89]. Multi-pattern
[TM05b]. Multiple-Stride [VWR11]. multiplexing [Quo92]. Multiply
[FT95]. Multiprocessing [WBA83]. multiprocessor [Vin77a, Vin77b].
Multitern [Bur84, Bur82]. Multiview [ZCS+12]. munch [Rep98]. Munich

Names [VB12]. Nancy [Bun94]. nanolithography [SS93b]. narrowing
[AEH94]. Nashville [ACM90a]. Natural [Fre06, GR96, vNG01].
Natural-Language [GR96]. Navarro [Hy98]. nd [OND98]. nd-order
[OND98]. near [HFFA09]. near-optimal [HFFA09]. Nearest [CEMW1].
Nearest-neighbour [CEMW1]. necessary [KT90]. Need [Gon02].
needed [AEH94]. Negative [YH9+16]. neighborhood [KS11a].
neglect [CEMW1]. Nerode [WZU14]. nerve [Kle56]. nested
[Lar98, MZZ10]. Nesting [Jed87]. net [AB89, PP85]. Nets
[CEW58, Sim83, GR92, Kle56]. Network
[CFM17, CF89, Rei03, CMS08, LMMN07, LHCK04, Tak96a, TLLL07].
Networks [CLP95, DCM15, JGZL12, MSP+17, Ray96, SF01, CEM91,
Kin89, LLL12, LYWL08, MMDD11, SD91, VD17]. Neural
[AB89, CG87, CLP95, SF01, Kin89]. neuromata [SW98]. neuropsychology
[AB89]. Nevada [ACM95c]. next [KKP92]. next-generation [KKP92].
NFA [ARS16, Cha01, CP97, HM98, Hy98, Lfi03, PD12, YKGS11, ZYX+12].
NFA-based [ARS16]. NFA-OBDDs [YKGS11]. NFA's
[CJBW13, CJBW16, Kha16, LM01a, KS08]. Optimum [LD10]. Oracle [FPD08, GL03].

Order [GU16, HW12, KEF+14, SDm01, Wag74, BLSS03, CFKT17, Chl08, CNPS15, CT96, Dow91, Gie90, Kes91, NRO12, OR11, OND98, Pie08, TPT13, Zei08].

Order- [Wag74]. Order-preserving [GU16, KEF+14, CFKT17, CNPS15].

order-sorted [Gie90, Kes91]. Ordered [ST04, Cro92b, Cro91a, Cro91b, Mäk89].

ordinary [Rev91]. Oregon [ACM94a, ACM00, BGNP94]. O'Reilly [Ano97a, Ano12].

Organization [IK83]. Organizing [CG87]. Orientation [TCCK90]. Oriented [GP93, KS94, GPTV93, LLCo03, Mus05, TG96].

Oval [IEE88]. Orleans [ACM91, ACM97b]. Ornament [Rém17]. Oscillator [FYJ+17].

Oscillator-Based [FYJ+17]. OSN [ZGY+16]. other [Ano97a, Fri97a].

outbreak [FNP09]. Outerplanar [BJM79]. Output [PM78]. Overcoming [Kü10].

overlap [PSK08]. Overlapping [Ben94, BZ98, CCF13]. Overlay [LT16]. overview [PVA+92, Tur86].

Oxford [Ano97b]. P [RUG97]. P2P [LLL12, LYWL08]. Pacific [IEE94a]. Package [van14, Kas08, Nic03].

Packed [Zha17, BKBB+14, GGF13]. Packet [LLL08, LMT16, VWR11, YP13, ARS16, BAC12, CMS08, NYuR15].


Palindrome-Recognition [Gal76b]. Palo [IEE93, IEE98]. PAMA [LCL06]. paper [Pet95].

Papers [Cro92a, Moo64, ACM69, ACM74, ACM76, ACM81, ACM92a, ACM92c, ACM93a, ACM94a, ACM95a, IE92, IE93, 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, Kii10, LLCC13, LLLC17, MS01, MR99, Mut00, NR98, RR90, SV94, SN92, TLC15, TVCM12, VML15, Wei83, BGNP94, BLPI92, BG90, BG91, Bre94b, Bre95, BH96, CL09, CCG+93, CR91, CR94, Gal84, Gal92, GS93b, GF08, Hur84, Huy98, II86, JRV96, KI15, LV98, MK90, Mist03, MMS14, NYuR15, Ryt89, TLS16, ZC99].

Parallel-Algorithms [SV94]. Parallelism [JA17, MKF91, WR94, ASM17, CFKT17, HFN05, LV86b, NR00, RW93].


parentheses [PDC94]. parentheses-matching [PDC94]. Parenthesis [Sto96].

Paris [Cro92a]. Park [IEE98]. Parse [Kea91a, Df00]. Parser [Hol84, TB00, Gan89b, LK06, MLC08].

Parsing [AU72, AU73, Cam99, Gor00, MGH97, BvdM17, MIM14, Ire09]. Part [KP15, Kul11]. Part-of-Speech [Kul11]. Partial
[Ant95, Ant96, CW84, GL01, KK92, Zve80a, Zve80b, ADR03, DMR06, HR03, Jor92, KCK93, MR99a].

**Partial-Match** [Mor83, Zve80a, Zve80b].

**Partition** [CF85, WL15b].

**Partitioning** [Fat15, Kim99, LYWL08, Mid96].

**Partners** [LLL12].

**Pascal** [Li98, Sha88].

**Paste** [AM97].

**Password** [MW94].

**Paste** [AM97].

**Paths** [Bac94, BLLW12, CDLV99, LM01b, Tar81a, Tar81b, TPT13, Che96, CK02b, LM12, PC02, YCJ08, YI03].

**Path** [GL07, LM13].

**Pattern** [AMB+02, ABM08, ABF9a, AAL97b, ALL97, AAL+97a, ALL98a, ALL00, AAL+00, ALR08, AP10, AWS16, Ano92b, Ano96, Ano17, iA94, AG84, AG97, AT02, ADLM96, AW89, Ash85, AJ92, AG89, AD11, BYN98, BCD98, BEM+12, Bee81, BKP97, BBL93, BBL98, Bow87, BTOC06, BL16, BGJ01, BCF12, BC93, BCC+13, CCFG12, CFM17, CS98, CDM11, CG78, CK04, Chat02b, CZCD09, CK92, CDEK95, CG94a, CL95, 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, GM02, Gia93].

**Pattern** [GL95, GG97, GM11, GMS02, GL92, GGN06, Gri79, Gri83, GL01, Gro92, GL86, Har02, Har97, HAR10, HH83, HL10, HT14, Hea01, Hea71, HENW03, Hei01, HL97, HO82, HST01, How97, HW12, CVP86, IM08, IST05, JMS83, KPR97, KPR00, KU99, KS12a, KR81, KR97, KR94, KR95, KR897, KN00, KP93, Kes91, Kes79, KTA99, KMT+01, Kid09, KK95, KK11, KS01, KS06, KM92, KM95a, KM95b, KMP77b, KRR17, Kor83, Kra08, KK02, KU09, KNS12, KU10, KX12, KNN00, KC99, Lab12, LV94, Lax91, LP13, LM01a, LKL02, LSTW+17, LT03, Les95, LV06, LTL04, LA12, LLCC13, LP11, Liu86, Liu88, LM02, Lu02, MZ07, MS98, MKF91, MU02, MW92a, MW92b, MGW14, MHT09, MU976, Mcl85a, McI85b, MS01, Mon17, Mu 95, MuT95, Mut00, Mye92].

**Pattern** [Nao91, Na91, Nao98, NBY99a, NR99b, NBY01, Nav94b, NW97, Nc98, Nd98, ND95, ND97, Ne010, NKL14, OR12, OP16, OW03, Ott94, PDL98, PS10, Par96, PV91, Pet92, PW95, PPZ08, PP90, Pong93, PK85, PSS9b, RR90, RR92, Rao95, RM88, RS98, Ric79, SMOP04, SCFC94, SN92, Sch95, SRR92, SRR95, SL94, Sse96, Sh93, SN94, SSTA99, SKF+00, Shi00, Shi04, SSSS10, Sim83, SF01, Sm101, SW09, Som82, Spi99b, Tak86, Tak94, TMK+02, TM05a, TMV+01, TK07, Ukk10, VMS87, VWR11, Via02, VG01, VR01, Vis91, Vis99, Vol12, VS01, VB08, WCM+94b, WZ95, WS06, Wat96, WKA94, WD99, WBA93, WM02b, X09, YP13, YK11, ZZ90, Zha17, ZLN11, ZT99, Zue96, TL12, ADR03, DMR06, AK80, AK99, AKI78, Al89, AG99, AS99, AYCLS02, ALV92].

**Pattern** [ALL98b, AL01, ABC+04, AKT06, ALLS07, ABH+14, Ano01, Apo92, Apo93, AH97, ACP05, AP90, ADLM01, AG06, BYR93, BYCC03, BA93, BDA90, BEM+13, BA15, BA16, Bir77a, BGJ89, BO13, Bra95, BBHK14, BKS02, CGK08, CPT92, CPW88, CF88, CGM10,
Cha93b, Cha93a, Cha87, Cha02c, CRV06, CR95a, CLS95, CFKT17, CNPS15, CS11, CWZ10, CJPS13, CCG+93, CH97b, CT96, CDS9, CGR93, CG94b, CR94, CCG+99, CKC07, DS04, Dij76, DijXX, Dow91, Dow93, DGM90, FLM+10, FWW13a, FWW13b, FC98, Fen01b, FBMA05, Fri97b, Ga04, GP92, GU95, GR99, GU16, GS00, GGF13, GG13, GPN96, GS06, HWV07, HC87, HM96, HBRV10, HP01, HP03, HK77, How96, HLN09, IIT13, Iba97, Ier09, Ind97, IM13, ISYH88, JM93, JP11, Jon07, KTP10, KSVJ15], pattern [KS07, Kas08, Kas98, KMS+03, KCK93, Kim99, KS11a, Kin89, KS05, KMP94, KMP77a, Kos89, Kos94, Kri09, KKR+13, KGP05, LLC03, LH13, LH03, LS10, LPO8, Liu98, LBK08, LO94, MCF+11, MK90, Man76, MMZ10, Mar07, MAI+16, MP05, MRR+01, MR09a, MR13, MA12, Mun95, NYuR15, Nav00, Nav01b, NRO2, NWE99, NdMM02a, NR17, NK07, Ni90, OK94, OR11, Oph89, Owo03, PPTT15, Par98, PS90, PC99, Per94, PMS11, Quo92, RM06, Sch81, Sch91a, Sch91b, Sch88, Sen00, SGYM00, Sl77, Smi91, SDS14, SHCY93, Spe85, Sp99a, Sro93, Sto02, SNM07, TZYH14, TM04, TM05b, Thi93, TIT83, TLS16, Val09, Van06, VW11, Via04, Vin77a, Vin77b, Vis90, Wad07, WCM+94a, WGMH13, WC14, WL15b, WZ96, WW03, Wat03, Wea94, Yao79, YCJ08, ZC98, ZMAB03, ZA17], pattern [ZC009, ZC ¨O09, dRL95, JD89, YIAS89, Ano97b]. Pattern-based [Far92, KS07]. Pattern-Directed [Kor83]. Pattern-Match [Pet92].

Pattern-Matching

[FR00, KPR97, KPR00, KR81, KR87, KRS95, KRS97, KP93, KXV12, Lut02, MUHT96, NWE97, Ned98, Ott94, Pau93, SCFC94, Sch95, SSSS10, Sw09, WM92b, CL96, GMC02, KN00, CF88, DijXX, Fri97b, Ga04, Ier09, KSVJ15, LH13, Nav01b, NWE99, Ndm02a, OR11, Per94, Sch88, Wea94].

Pattern-Recognition [AWS16]. Patterns

[BH85, CLP98, Gin73, HNB+13, IS94, JGZL12, Kha16, Les79, SB09, TMV+01, ADT15, Alb89, A06, BLO11, BSM+07, BFS04, Bro77, CP10, Dan91, ET88, IS96, JSH09, KHI15, KRML09, LMM17, MR90a, Ndm02a, Tsk93, Ver92, Vou06, Wal89, ZKCY07, ZJL14]. Pearls [KN12, FHW10].

Pearls

[Bir10]. pebbles [EHS07]. peeling [ALLT11]. Peephol e

[Spi99b, BA06, Sp spi99a]. peer [AB09]. peer-to-peer [AB09]. Penalties


[DGBH93]. Space [GP01, GP03]. SQL [FPD08]. Tcl [Wes97].

Pennsylvania

[ACM76, ACM99a, IEE92]. peptide [SVS79]. Perfect

[LLC17, XMCL11]. perform [MW925]. 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

[GGP04, MAI+16]. Perl

[Lab12, Ano97a, Fr97a, Han01, LT09, SPF08, Sno01, SM04, Stu07, Val09].

Permutation

[BL16, KKR+13]. Permutations

[BBL93, BBL98, Chr96, Iba97]. permuted [BEL04]. Perrin [Bre93, Bre96].

J [KS08].


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, Neh06]. **Probability** [SCFC94]. **Problem** [BCT94, BCT98, CF06, CK02a, Hui92, KS11b, KS12b, KZ02, Pet02, PW93, Yan95, Akl78, B+05, BSTU08, BC06, BCT93, DIj76, DIjXX, FL13, Goo05, Gra15, Gro91a, GZ10, Kar82, MaA06, Ma90, 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, OP16, RS59, SV94, Tar81a, Tar81b, Via02, FMd99, Gro91b, GHK14, HY92, HTX17, Ind98, Kra08, Mid96, Nic03, Sr93, SH85, Via04]. **Procedural** [Sym85]. **Procedure** [Gin67, HW09]. **procedures** [MP88]. **proceedings** [ACM90a, ACM92b, ACM94b, ACM94c, ACM95b, ACM97a, ACM98, DGBH93, KP15, KL12, Len93, Len11, Lev95, SC04, SC05, SM09, ACM81, ACM08, ABB93, B+02, Bro93, IEE92, IEE93, IEE94a, IEE98, MG94, SC93, SC09, 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, CV96, IE98, IE90, IE94b, IE95b, IE09, Ks12a, Ku09, LV06, MZ07, PC99, SMD04, SW94, SC09, USE92, Ap92, Ao93, AH97, ACP05, BGNP94, Bu94, CG94b, GU95, HM96]. **Proceedings.** [BGG+94]. **Process** [Gro91a, VV04]. **Processes** [SBF80, AB89]. **Processing** [CCL87, LLLC17, TMK+02, VCS+12, vNG01, CL09, CK08, ECSS88, Gre88, KSH+15, Kit94, QWX+13]. **Processor** [HKL+14, LHCK04, ME97, MM07, TLL07, WK09, CPW88, Sca11]. **processor-based** [LHCK04]. **Processors** [AWS16, VCS+12, YP13, TLL09, YIAS89]. **Production** [DWE89, MUHT96]. **products** [Yod91]. **Professional** [HZ13, JNS08]. **Profile** [FhDAF09]. **Profile-guided** [FhDAF09]. **Profiles** [SB09]. **profondeur** [Alb89]. **Program** [CDL+15, JP73, Mu95, MuT95, Wea94, Kod79, KMMNP85, Mag81, MP09, Mun95, Pel87, Pra97, WZ95]. **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, Tho86, VHC88, Wen93, ACM87, AC93, BAC06, BK89, CM86, Coh90, Ear74, Fia88, HJW+92, Ks08, Mor02, Mye99, Pie08, Smi91, YIAS89]. **Programs** [Bir77b, RND97, VMML15, BK86, HN90, Jon07, Koi94, NWE99, NAR08, OK94, OR11, SLTB+06]. **PROGRES** [Zue96]. **progressive** [XMLC11]. **Projections** [Wei83]. **PROLOG** [Wei84, CF88, Gan89a]. **Proof**
ProofChecker [SBR+07]. Proof
[GH05, SBR+07]. Properties [Sli78, AS85, LM16]. property
[CCL87, LSTW+17, Les95, MGW14, Pol13, VG01, FLSS93a, FLSS93b, HA102].
Protein-DNA [LSTW+17]. protocol [AB09]. Protocols [HL10, HSL10].
Prototype [Mu 95, MuT95, Mun95]. Prototyping [CFS+89]. Provably
[GH13]. provers [VLP17]. providing [BH07]. Proximity [BYCMW94].
Pruning [ZGS+15, PC02]. pu [Lia84]. Punctuation [GWvG10]. purely
[HiJW+92]. Purpose [VCS+12, AAB+86, Sch91a, Sch91b]. push
[GOMSJVGP08]. push-down [GOMSJVGP08]. Pushdown [MS98]. Puzzle
[BK93d]. pyramid [SS94].

Q [MP88]. Q&A [Cal00]. Q-Coder [MP88]. QED [Ritxx]. quadtree [SS94].
quadtrees [BK93]. qualitative [MLM+08]. Quality [LLW+15].
quasi-equally [NCV10]. quasi-real-time [Kos94]. Quebec [ACM94d].
Queries [BYCMW94, BLLW12, CDLV99, FLS98, HJ99, Kin92, WWW+16, ADT15, Arn93, CK02b, FWW12, IKX15, LMRT14, ZCÖZ12].
Query [FLS98, KM94, AYCLS02, AL08, BLS03, BFS00, CDL08, CMW87, KSH+15, MZZ10, PC02, QWX+13, RM06, ZCÖZ09]. Querying
[BLR11, LM01b, San15, TV14, CM95, GW92]. Question
[KKL01, AF98, CKC07]. Question-Answering [KKL01]. queues
[SWZ01]. Quicksan [Sil77]. quirky [MLM+08]. Quoted [PSK17].
Quotient [FPF08].

R [Ram94, Val09, van14, Lab12]. Rabin [GBY90a, GBY90b]. RAID
[WOQ+07]. Random [Ale94, RKH02, CRV06, SN94, Yao79]. Randomized
[AJ92, 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 [MCP17, ORT09, CGR02, CGR03].
re-examined [ORT09]. RE-Tree [CGR02, CGR03]. Re-Vectorization
[MCP17]. re2 [Cox10b]. reachability [FWW12, GZ10].
reachability-bound [GZ10]. Reactive [HHFA09]. reading [BWG12]. Real
[BG14, Gal76a, Gal81, Kos94, Sli78, Sli83, BM13, CM90, Gal75].
Real-Time [BG14, Sli78, Gal76a, Kos94, BM13, Gal75]. Realization
[CEW58, Kle56, TB00, KX92]. Reasoning [ADT15, GMR9, KOS7, PSS09].
Rebus [Gri85]. Recalibration [BM08]. recipes [B+05, Goo05].
Reco
Reconciling [IM13]. Reconfigurable [BM00, MLC08, CMS08, Ram94, WKR09]. Reconstructing [Wei83].
Reconstruction [Sha93, Sto96, NCV10]. Record [Wei84, ACM69, ACM74, ACM76, ACM92a, ACM93a, ACM94a, ACM95a].
Regular [AM91, ADR15, Ano68, Anoxx, Ant95, Asp12, Bae94, BTG83a, BTG83b, BC13b, BF97, Ber00, BGNV10, Bra94, BC94, BFS04, BTC06, BK93a, BKW92c, BK93c, Brz62, BP63, Brz64b, Brz65, CDLV99, Cam99, CS03, Cz01, Cha01, Cha02a, CLOZ04, COZ09, CJM12, CDJM15, CGR02, CJBW16, CHP92, CC97, CKW09, CGS17, 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, HW06, Han13a, Han13b, HW03, HN11, HJ99, Hir96, Hol84, HK11, Hos06, HVP00, HP01, HP03, HVP05, HN00, HSW97, Hum97, Hum99, IY02, KT06, KTU87, Kea91a, KP99b, KP99c, Kin92, KM92].
Regular [KM95a, KLH16, KN12, KV15, KZ02, KST12, LS99, LS06, Lab98, Lee99, LZH98, LM01b, LT16, LT09, Loh10, Mad01, MS98, Mag81, MNS10, MY60, MPN+14, MR09b, MPd12, Mye92, MOG98, NR99a, NR01, Nav01c, Nav04a, NR04, Org03, OF61, ORT08, ORT09, Pak91, PM78, PPA10, Pat71, Pet02, Praq9, Pre96, Rez92, Ric79, SA96, Sca11, Sch99, SS93a, Son99, Spe85, SM99, Stu03, Stu07, SL17, TV14, TB00, Uma97, VCS+12, VHC88, Wag74, WPKL13, Wat96, Wen93, WMM95, WZU14, XK92, Yam01, YP12, YQW+16, ZGS+15, Zia96, dLFM07, vNG01, AFH98, Aqo97a, AGM95, AM95, Ant96, AOMC07, ACM02, BCG07, BYG96, BAC12, BRL13, BDFR08, BvdM17, BS86, BNSV10, BFC08, BFG09, BK86, Bra95, BH07, BKW92a, BK93b, BKGW2b, CGR03, CP97]. regular [CJBW13, Chi17, CK02b, CLT07, CK08, CGPC13, Cox10b, DL03, DF00, EZ74, FL71, FDG+11, FHW10, Fos89, Fri97a, Fri06a, GLRA11, GR02, Gel10, GL03, GMS12, GH09, HW07, HW07, HY90, HS04, HW09, Jan85, JSH09, Jho69, Kah06, KSo8, Kar82, Ker07, KGA+12, Kin91, Lau00, Lee82, Lei80, Le85, LWS+16, Li03, LR14, LM13, LMN16, MMDJ11, Mcl04, MR05, Mor02, MZZ10, MM89, Nic03, PC02, PIT+03, Rob79, Ron14, Ryt89, SCF+17, San15, SMS15, SYM00, Sha88, SY72, SH85, SM04, SMT+86, Vou06, WL15b, WW03, Wat03, XT+04, YKGS11, YH91, YH92, YB13, ZHH16, ZC99, ZYX+12, tC09, Tho68, Ano12].
Regular-Expression [BTC06, Han13a, YQW+16, ORT08, ORT09, SCF+17].
Regular-like [BTG83a, BTG83b]. regulatory [MMDj11]. reifiable [dSMY15]. Reinforcement [KK02]. Related
[CHZ06, AS55, Gro91b, Sri93]. Relation [KN12, MR92, Pre99, LSV08].
relational [BGHZ15, HC87, KWLL08, MZZ10, DWE89]. relations
[BLSS03, BÖ13, MA1+16]. Relationship [KK92, GR02]. relaxation
[SHCY93]. Reliability [FO76]. Reliable [KKSL01, CDC96]. Remark
[Tho81, Pet95, TCC91]. Remarks [CR87]. Removal [KK95]. Renyi
[AW99]. Repairing [LWS+16]. repeated [LO94, Thi93]. repetitions
[Cro96]. Repetitive [CDM15]. replication [HFFA09]. Report [GS81b, HJW+92]. Reporting
[MO98]. representable [Dow93]. Representation [NR01]. representations
[YB13, ZC89, ZZH16]. Required [MW92b]. requirement
[LH13, ZKCY07]. requires [Rob79]. Research [CPW88, IEE89]. RESeED
[SCF+17]. Residue [BM00]. Resilient [ABBH+16]. 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, PMID01, SD91, ZKA12]. Reusability [PV91]. Reuse
[HL97, Rém17]. Review
[An97a, An97b, Ano12, Hum97, Lab12, Neu10, Uma97, FL13]. revised
[A+08]. revisited [CCI+13, GL01, RUC97]. rewrite [KN00, Ram94].
Rewriting
[AM95, CDLV99, Dur94, GHW05, Lav91, ND02, GMC02, KR95, PSK17].
Rewriting-Based [ND02]. REX [Cam99]. Rexx [LS06]. Rey [ACM69].
Richness [QPWH08]. Richness-preserving [QPWH08]. rifaresnu [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
[FS93a]. Robust [Le 91, WZJH12, YP13, BFN+99, HLN09]. Roma
[AAC+01]. Root [CHZ06, TLL07]. root-hashing [TLL07].
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, RT17, Gre88, Oph89]. rule-based [Gre88]. Rules
[Gli62, 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]. safer [Rém17]. safety [FF08]. Salomaa [AFI98].

sam [Pik00]. Samples [GZ94, ST96b, Tak94, Kin91]. Sampling

[ACP95a, Lut02, Vis91, WSW16, CGH93, Vis90, ZHWW12]. San

[ACM92c, ACM92b, ACM93b, ACM95a, ACM95b, DT87, IEE94b, KLP15, 

Sto92, USE92]. SAR [Bp+02]. SASL [LT90a]. Satellite [SS93a]. Saving

[Bre93, Bre96, GS80]. Scale

[ACM92c, ACM92a, ACM93b, ACM95a, ACM95b, DT87, IEE94b, KLP15, 

Sto92, USE92]. SAR [Bp+02]. SASL [LT90a]. Satellite [SS93a]. Saving

[Bre93, Bre96, GS80]. Scale
Separation [Kul11]. September [AAC+01, AOV+99, Len93, MG94, Win78].
Sequence [BLP94, BDFW94, Bra90, CCL87, GM02, KK08, LPT12, MGW14, RND97, CLT07, ECS88, GO12, HA102, MBY91, SVS97]. sequenced [GW92]. Sequences [Hu94, IMR08, MT14, NEL17, DPK11, GGN06, Gus97, MZZ10, NR02, Nil90, Se184, SN94, ZKY07, Lut102]. Sequencing [RM06, KRML09]. sequentiability [Ga`a04]. Sequential [BP63, Brz64a, Brz65, Dur94, GRS99, GPR95a, Man86, Moh94, MR13, Moo64, OF61, PM78, RS98, We183, Zve80a, Zve80b, JM90, MMZ10].

Simultaneous [PS93a]. Single [AAB+86, Per94, WHZ+17, FN04].  
singly [BAP06]. singularity [WYA+07]. Sixteenth [ACM97a, ACM84].  
Sixth [ACM07, ACM74, ACM94d]. Size  
[BGG12, CF85, CKW09, Hui92, Kül10, GH09, Li03, PPTT15]. Sized  
[KRR17]. sketching [SLTB+06]. Skolem [Kar82]. sliced [KRL87]. Slicing  
[DSv94]. Sliding [FL12b]. Small  
[CLP98, CGPR95, HSW97, MPN+14, STK10, Sca11]. Small-Ruleset  
[Sca11]. Smaller [GPR95a, GLRA11]. smoothed [AK12]. Smoothness  
[ZCS+12]. SNOBOL [Bro77]. SNOBOL4  
[Duf82, Gim73, Gri85, Liu86, Sch81, Sil77, Gri83, Pag78]. SNOBOL4/Icon  
[Gri85]. Snowbird  
[SC93, SC95, SC98, SC99, SC01, SC02, SC03, SC04, SM09, SM10, SM11]. Social  
[CVP86, NEH90]. SODA [BJK+12].  
Source [SED14, AG06, Joh94b]. sources [ST96a]. Sourcing [CDL+15]. South  
[ACM93a]. Space [BC13b, Ben94, CF06, CZ01, Cha94, CF85, CDEK95,  
CJPS13, CGPR95, GS80, GHST17, GPR95a, KC87, LT09, SWY75, ZGS+15,  
AK08, BWCG09, BGM13, CD96, CGGR99, GS81b, GPR95b, GO12, IKX15,  
KR89, LMRT14, Rob79, SW12]. Space-Efficient [BC13b]. space-optimal  
[KR89]. Space-Time [CF85, GHST17]. Spaced [Zha07, NCV10]. Spain  
[LV06]. Span [ZGY+16, KEG+08]. Spanners [FKRV15]. SPARQL  
[LM12, LM13, PA09]. Sparse [WSW16, HSL10, Quo92]. spatial [CS98].  
spatio [PMD01]. spatio-temporal [PMD01]. Speaker [PG90]. Special  
[ALLL98a, AK09b, AGS93a, AGS93c, AGS93b, Ano17, DT87, ALLL98b,  
Cro92a]. specialisation [Jon07]. Specific [MGW14, TMV+01, WKR09].  
Specification [Lut02, Sou99, SMT+86]. specifications [JM90]. Specified  
[ZMS93]. specify [CFM00]. Specifying [Lut02]. Spectra  
[BM08, SHCY93]. spectrum [ZHW12]. Speculation [JA17]. Speculative  
[NYuR15, RP95]. Speech [Kul11, PG90, RJK79, AAB+86]. Speed  
[FL12b, JGZL12, LK90, VCS+12, LK88, TLLL07, XMLC11, ZYX+12].  
Speeding [CCG+94, Deco06, SKF+00, ACFO5]. 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]. staged [PSK17]. 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, JA17, KHL16, MY60, Yung01, Ga90, HW07, Hur84, MMS14, VHL+12, Yod91]. Statements [JP73]. States
[DGBH93, LK06]. Static [Cha02b, HV93, JGZL12, WHZ+17, 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].
Stereo- [PD19]. Steven [Ano12]. Stieljes [KC11]. Still
[Gon02, LS06]. STOCH [ACM08]. Stochastic [SBHM94]. Stopper
[RTT02a, RTT02b]. storage [All82, CDC96, GS81a, SCF+17]. Strategic
[Vis99]. Strategies
[CJ93, MM02, HBRV10, MM03, MLM+08, PSK08, PCS99, iA94]. Strategy
[Bon07, EMC96, AEH94, LLL13]. stream [Nil90]. Streamed [DCM15].
Streaming [BG14, PP99, BGFK15, GHR+16]. Streams
[CJPS12, DLG12, Har02, CL09, CGM10, San15]. strict [HJW+92]. Stride
[VWR11, Nyu15]. striding [ARS16]. String
[AOK02, Abr87, AC75, Ak94, AR00, ADR91, ACD01, AC03, BPH92, BY96, BY96, BY97, BY99, BC09, BH02, BH15, Ber90, BLL90, BL94, BM00, BVW12, BM77, BG92, Bre93, BCT94, BG95, BCT98, BGG12, BG91, BK93d, BZ98, Bur84, CF06, CF88, CK02a, CLS+10, CL92, Cha93b, CM94, CL94, CCH90, CLP98, CN02, CTF+98, CHL14, CH04, Ch95, CW14, Col94a, CHP95, CH97a, CH02, CP91, Cro92b, CCG94, CCG+97, CIK98, CIM+02, Dav73, EMC96, FT95, FT98, FL12a, FL12b, FG98, TV16, FU98, Fre92, FT04, Fre06, Ga76b, Gal79, GS80, Gal81, GP90, GG91, GGG92, Gal95, GPR95a, GHWO5, GZ94, G01, GF11, GV05, GMNN12, HD80, HH93a, Hui92, HS91, H302, H05, I301, IK83, JL14]. String
[JTU96, Kha16, KST94, KKK11, KS11b, KS12b, LSW08, LP13, Le 91, LC95, Lec98, Les94, LY86, LLLL08, LLLC17, LD10, Liu86, Liu88, LCL06, LLW+15, LS94, Mel95, Mey85, MM02, MI97, Moh97, ML96a, ML96b, Mun07, MR92, Mun97, Mye98, Na01, NR98, NYB99b, NEL17, OM88, PAMP12, PK95, PP94, Pet07, Ph94, Rao90, RRT02a, RRT02b, RKH02, RPE81, Sad96, SY94, STK10, Sh92, Shi92, Si94, Sim94, S178, S183, Sp199, ST95, ST96b, ST04, TS05, TV93, TP97, TT92, TVCM12, UW93, VMM15, Wr94, YP13, ZS17, ZS13, ZGS+15, de 82, van14, Ak95, AS17, ACF05, ALP04, AAK+09, AEK+11, AEMS14, AGW13, BFKL13, BY96, BY96, BSY00, Bak78, Bar84, BR90, BB91, 8LF+14, BLPL92, BL09, BFP+08, BG90, BG91, BCT93, Bre94b, Bre95, Bre96]. string
[BGM13, Bur82, BEL04, CCF13, CL90, Cha93a, CDDM05, CW13, CR87, CH92, CGG90, CD96, CM07, CGR99, Dau09, DR06, Dec06, Der95, DC94, DHPT10, FL13, Fan01a, FG95, FMDB99, FG99, FBMA05, Fre03, FN04, FM06, Gal75, Gal76a, GS81a, GS81b, Gal84, GG86, GG87, Gal92, GPR95b,
string [NC92, PLL10, RUG97, Ryt80, Sad93, STK06, Sal12, SW90, SZ05, SM15, ST96a, SG12, SR16, Spi99a, SV87, Tak96b, TBS06, THG17, TPT13, Ukk92, Ukk93, VLP17, Vin77a, Vin77b, WL15a, WLF14, XMLC11, Yao79, YT03, dJ93, 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, LHK04, PLL10, TBS06, Ukk92, Ukk93, dJ93]. 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, Cha95, Col94b, FT98, Gaw13, GNU94, GL01, ISNH94, KRS95, KRS97, KMP77b, LT03, Lut02, SW09, Ver92, YQW+16, Zha17, ADR03, ADR06, BLSS03, BFK+03, BC95, CD99, CR91, EH88, ET98, FT95, GO12, Gua97, JRV96, KGA+12, KMP94, KMP77a, KR97, LMM17, LS10, Mcl04, Mei15, NR02]. Strong [GGM12, LS06, WD99, AW89]. Strongly [Dur94]. Structural [BG01, KWLL08, Shi00, Shi04, BFS00]. Structure [CGR02, Gia93, Les95, Pol13, Sli78, TMV+01, AP90, CRO3, CD96, FG99, FLSS93a, FLSS93b, KWL07, MP05]. Structured [BLW12, KM94, BGHZ15, Fla88, TMK+02]. Structures [Cha01, Cha02a, GHLW15, GG97, Gor00, LS08, Lar99, Lec98, Les79, ABH+14, BA15, GMC02, HN90]. stuck [AEK+11]. Studien [SM74]. Studies [MM85, SM56, SM74, SS93a]. Study [CS03, FTDJ95, JM85, MM02, OP16, PV91, Sca11, Fen01b, PK08, SSK96]. Studying [MGH93]. Sturman [BR09]. Style [Cop91, WW03]. subexpressions [Dat15]. Subgraph [QZC17, KSH+15, SWW+12]. subject [ETV88, Sch81]. Sublinear [CL94, FG98, CL90, CWZ10, CRO99, FG95, WZ96]. Sublist [Jay92]. Suboptimal [Cha94, LS94]. Subquadratic [WMM95]. subsequence [ZKA12]. Subsequences [YF94]. Subset [CH03, Kin92, Pag78, AB09, CH97b, HW09]. Substitution [For02, JCS83, Sch81]. substitutions [Pie08]. Substring [CIL+03, Har71, JFH94a, Sun90, BTOU08, Gra15, HKN14, HTX17, IKX15, JKN00, Maa06, MAI+16, Sto02]. substring-preprocessing [Sto02]. Substrings [Cob94, Boo80, FGKU15, GHST17, LO94]. subtree [Gro91a, Gro91b, Maa89]. Subtype [WZJH12]. subtypes [YM93]. 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 [RDN97]. Supercomputing [IEE88].

Superimposed [Ind97]. Superiority [Zha07]. superoptimizers [BA06].

Superprimitivity [Bre94b]. Super Alphabets [Fre02, Fre03]. Super-Pattern [KM95b]. Superstrings [ACM94b, TY97, Che96, Mid98, TU88]. support [CL09, KAT07, Rob92].

Superimposed [Ind97]. Superiority [Zha07]. superoptimizers [BA06].

Superprimitivity [Bre94b]. Super Alphabets [Fre02, Fre03]. Super-Pattern [KM95b]. Superstrings [ACM94b, TY97, Che96, Mid98, TU88]. support [CL09, KAT07, Rob92].

Superimposed [Ind97]. Superiority [Zha07]. superoptimizers [BA06].

Superprimitivity [Bre94b]. Super Alphabets [Fre02, Fre03]. Super-Pattern [KM95b]. Superstrings [ACM94b, TY97, Che96, Mid98, TU88]. support [CL09, KAT07, Rob92].

Superimposed [Ind97]. Superiority [Zha07]. superoptimizers [BA06].

Superprimitivity [Bre94b]. Super Alphabets [Fre02, Fre03]. Super-Pattern [KM95b]. Superstrings [ACM94b, TY97, Che96, Mid98, TU88]. support [CL09, KAT07, Rob92].
[DCM15, GS93a, GL86, HH93a, Kuk92, Mu 95, MuT95, NR04, Tho68, Ano97a, DOS93, EF95, Fri97a, HH93b, MSRR00, Mun95]. **technologies** [OKT92]. **Technology** [IEE01a, IEE01d, IEE01c, IEE01b, THG17]. **Template** [SN92, Coo89, FLSS93a, FLSS93b, SS94, SA77]. **Templates** [HL97, ZGY +16]. **temporal** [PMD01]. **TENCON** [Bao93]. **Tennessee** [ACM90a]. **Tenth** [IEE94b]. **ter** [Lia84]. **Term** [ACM90a, ACM90b, ACM91, ACM92d, ACM93b, ACM94d, ACM95c, ACM97c, ACM99b, ACM00, ACM08, AU72, AU73, Git93, Git94, Git95], **third** [ACM91, ACM93d, Apo92]. **Thirteenth** [ACM81, ACM94c]. **thirtieth** [Len11]. **Thirty** [ACM00, ACM99b]. **three-first** [ACM99b]. **Thorn** [BFN+09]. **threaded** [MAC14]. **Threading** [OR12]. **Three** [Cha02a, GPP04, HEWK03, KR94, Les79, Les95, de 82, AK08]. **Three-Dimensional** [GPP04, HEWK03, Les79, Les95], **threshold** [BSTU08]. **thresholds** [AD11, ZA17]. **Throughput** [BTC06, LPT12, TS05, LH13, LMMN07]. **Thue** [KKM +85]. **TIG** [Mu 95, MuT95, Mun95]. **Tight** [BCT93, Col94a, SV87]. **Tighter** [CH92, CHPZ95, CH97a]. **Time** [BC13b, BG12, BG14, C01, CGS16, CH03, CR95b, CGPR95, CGG+97, CGH+98, FG98, Gal79, Gal81, GS81b, Gal95, GP01, GP03, HM98, ISNH94, KU99, KLR02, MHT09, PRU11, Sli78, Sli83, St096, WBA83, BG90, BGM13, CH09, CH97b, CD96, CRG99, E88, FLM+10, FG95, Gal75, Gal76a, GS81a, Gal92, GHST17, GPR95b, GF08, GFG11, GMS12, HKN14, IKX15, IP96, Kos94, KRL87, KKR+13, Lu81, RP95, Rep98]. **Time-** [BC13b]. **time-optimal** [IKX15]. **time-sliced** [KRL87]. **time-space** [GPR95b].
Time-space-optimal [GS81b]. Time/Space [GP01, GP03]. Timed [ACM02]. Times [Mid98]. Timothy [Neu10]. Tion [Lia84]. TLA [Lut02, Lut02]. TLEX [Kea91b]. TM [BGFK15]. token [WLF14]. Tokenization [Kul11, Sca11, Rep98]. Tokyo [IEE94a, WN90]. tolerant [WLF14]. Tool [Hol01, WM92b, Ier09, KOI94, Nav01b, NT05, SCF+17]. Toolkit [Lut02, VVV04]. Tools [Lut02, PPA10, CGM06, Fri97a, Han02, Ano97a]. Top [Sca11, FWW13a, OSM94]. Top-Performance [Sca11]. Topological [D’A98, Fu97]. Topologies [VG01, NCV10]. Topology [ZJL14, MCF+11]. Topology-constrained [ZJL14]. tour [Nav01a]. toys [H09, M10]. trace [ATdM07]. Track [LT03]. tracking [Ier94a, SHS14]. tractable [Lei85]. Trade [Abb94, GHST17]. trade-offs [GHST17]. traffic [BBK12]. Transducers [Cro86, Moh94, EHS07, Gaa04, GHR+16, VHL+12]. Transform [ABM08, Neu10, TZYH14, ZMAB03]. Transformation [BCC+13, Gro92, Kha16, AK08, EHS07, GT90, KH06]. Transformational [PV91, PS90]. Transformations [ADR15, DN77, JM90, KC87, SDm01, AK09a, Arn93, ETV88, Ryt89, SG12, dLFM07]. transformed [AMB+02]. Transforming [GHST17]. transitive [Abb94, GHST17]. transition [CW13, GT90]. transitions [Lau00]. Transitive [AS85, LH03]. Translating [HSW97, Rev91]. Translation [AU72, AU73, Ver70b, Ver70a, Rot91, TZYH14]. translational [Man06]. translocations [GFG11]. Transmission [Jok90]. Transposition [LT03, MNU05, Deo06]. transposition-invariant [Deo06]. transputer [CEMW91]. traversal [NRO12]. traversal-based [NRO12]. Traversals [Sto96]. Tree [AGT89, AM91, AYCLS02, Cha02b, Cha02c, CHZ06, CH97b, CH03, DGM94, FV16, GHLW15, JWZ94, Kid09, KM94, KLH16, LPR+08, MS98, RR90, Shi00, Shi04, Sto96, BDB90, BTG83a, BTG83b, CGR03, Cha87, CLS95, DF00, DGM90, EHS07, FCFM00, Far92, FG99, KS11a, Kos98, Mal93, SGYM00, Vou06, CGR02]. Tree-Like [GHLW15]. tree-manipulation [Mal93]. Tree-Structured [MK94]. tree-walking [EHS07]. Trees [BYCMW94, BCP02, GHLW15, Gol93, Gro92, GV05, HO82, JWZ94, RR92, SCFC94, Sim83, ACFC+16, CPT92, Gro91a, Gro91b, GV00, Gus97, JWZ94, Ros94, Mik89, TTHP05, Ukk93, Ver92]. Triangle [IEE89]. Tricks [Abb94]. Trie [CCH09, GOL12]. tries [BYG96]. Trigram [Cox12]. Truly [GP92]. Tucson [ACM97a, Apo92]. Tumor [WZJH12]. Turing [GOMSJVGP08]. Turkey [SM04]. Tutorial [Lut02]. Twentieth [ACM93a]. Twenty [ACM06, ACM07, ACF+01, AOV+99, B+02, ACM09b, ACM91, ACM92d, ACM93b, ACM94d, ACM95c, ACM97c]. Twenty-Eighth [B+02]. Twenty-Fifth [ACM06, AOV+99, ACM93b]. twenty-fourth [ACM92d]. twenty-ninth [ACM97c]. Twenty-second [ACM90b]. Twenty-seventh [AAC+01, ACM95c]. Twenty-Sixth [ACM07, ACM94d]. Twig [DLG12, BKSM02, KRML09, MMZ10]. twigs [RM06]. Two [AF92, AFB94a, ABC+04, Ano68, ADLM96, BYN98, BKL97, Bir77a, BGJ01, CDLM15, CL95, CHZ06, CHLT14, CP91, CR92, CG93, CCG+94, CGPR95,
Two- [KU99]. Two-Dimensional [ABF94a, ADLM96, BYN98, BKLP97, CL95, CHLT14, CR92, CGPR95, CGH+98, CIK98, FU98, Gia93, HW12, KPR00, Par96, ZT89, AF92, ABC+04, CGR93, Mid96, TTT83, ABF94b, AKT06, AMG05, ADLM01, BYR93, CR94, GP92, HY90, HLN09, KWLO7, dSOMY15, Par98, Rot91, SN94, VLP17].

Two-Head [LY86]. Two-Level [JSC83, KWL07, dSOMY15]. two-patterns [CP10]. two-point [Rot91]. Two-Sided [CDJM15]. Two-Way [CP91, She59]. Type [JM93, Sou99, Van06, FF08, JO97, Nil90, Pie08].
type-theoretic [Pie08]. Typed [JP11, Xi03, Dow91]. Types [FR00, Pre99, BC93, CGPS13, GLS07, GP92, HLN09, Par98].

Two-Sided [CDJM15]. Two-Way [CP91, She59]. Type [JM93, Sou99, Van06, FF08, JO97, Nil90, Pie08].
type-theoretic [Pie08]. Typed [JP11, Xi03, Dow91]. Types [FR00, Pre99, BC93, CGPS13, GLS07, GP92, HLN09, Par98].
SG16, Spi99a, TM05b, Val09, Vol12, Wri94, ZC89, ZMAB03, ZZH10, ZMSD93. USL [DWE89]. Utah [SC93, SC04, SM09, SM11, SC95, SC96, SC98, SC99, SC01, SC02, SC03, SM10]. Utilities [IEE01c]. Utilizing [XK92, All82].


VF-Coding [Kid09]. Via [Eke95, YJ84, AS85, CDL+15, EF13, GHWO5, GZ94, Kin92, KS96, KVX12, MIH17, Mor02, REP81, Shi97, SNM07, YCJK08, ZLN11, ZCOZ12].

References


REFERENCES


REFERENCES

Abbott:1977:DIY


Agrawal:1993:VLD


Abbott:1994:TTa


Abbott:1996:IOC


Afek:2016:MDE


Aho:1975:ESM


Agha:1993:AOD


Atallah:2001:RAA


Aldwairi:2005:CSM


Apostolico:2016:YST


ACM:1969:CRA


[ACM92a] ACM, editor. *Conference record of the Nineteenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Pro-
REFERENCES


[ACM94a]


[ACM94b]


[ACM94c]


[ACM94d]


REFERENCES


REFERENCES


Amir:1994:ADP

Apostolico:1984:PMM

Apostolico:1997:PMA

Atkinson:2006:EPM

Anselmo:2005:NOR

Andre:1993:ESI
REFERENCES

Andre:EPODD-6-3-115


Andre:1993:ICR


Andre:1993:PTI


Atallah:1996:PMI


Aho:1989:CGU

Aho:1974:DAC


Atallah:2013:LVR


Apostolico:1997:CPM


Augustsson:1989:CLC

Atallah:1992:PMM


Aiger:2008:AGH


Aiger:2009:GPM


Anand:2009:OCS


Andoni:2012:SCE


Akl:1978:CGM

REFERENCES

CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).


Akutsu:1994:ASM


Akutsu:1995:ASM


Amir:2001:CPM


Arenas:2008:XDE

Albert:1989:CMA


Alexander:1994:SCS


Allen:1982:FID


Amir:1997:PMH


Amir:2000:PMH

REFERENCES


REFERENCES


Anonymous:1997:BRPj


Anonymous:19xx:URE


Anonymous:2001:MLP


Anonymous:2012:BRR


Anonymous:2017:ENS


Antimirov:1995:PDR


REFERENCES

Amir:2010:CPM

Apostolico:1992:CPM

Apostolico:1993:CPM

Allauzen:2000:SOS
REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[Butman:2013:PMU] Ayelet Butman, Peter Clifford, Raphaël Clifford, Markus Jalsenius, Noa Lewenstein, Benny Porat, Ely Porat, and Ben-


REFERENCES

CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).


REFERENCES

CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).


REFERENCES


[BFN†09] Bard Bloom, John Field, Nathaniel Nystrom, Johan Östlund, Gregor Richards, Rok Strniša, Jan Vitek, and Tobias

Brisaboa:2010:DLT


Bohannon:2008:BRL


Buneman:2000:UQL


Broberg:2004:REP


Breslauer:1990:OTP

Dany Breslauer and Zvi Galil. An optimal $O(\log \log n)$ time parallel string matching algorithm. *SIAM Journal on Com-


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[BL16] Marie-Louise Bruner and Martin Lackner. A fast algorithm for permutation pattern matching based on alternating runs. *Al-

[BL16] Marie-Louise Bruner and Martin Lackner. A fast algorithm for permutation pattern matching based on alternating runs. *Al-

REFERENCES


[BP63] J. A. Brzozowski and J. F. Poage. On the construction of sequential machines from regular expressions. *IEEE Trans-


REFERENCES


[BSM⁺07] Simon Breslav, Karol Szerszen, Lee Markosian, Pascal Barla, and Joëlle Thollot. Dynamic 2D patterns for shading 3D


[BTG83b] A. Barrero, M. G. Thomason, and R. C. Gonzalez. Regular-like tree expressions. *International Journal of Computer and
REFERENCES


REFERENCES


REFERENCES


REFERENCES

ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://
link.springer-ny.com/link/service/series/0558/bibs/1
380/13800341.htm; http://link.springer-ny.com/link/serv
ice/series/0558/papers/1380/13800341.pdf.

[BYN99] Ricardo A. Baeza-Yates and Gonzalo Navarro. Faster approx
imate string matching. Algorithmica, 23(2):127–158, Febru
ary 1999. CODEN ALGOEJ. ISSN 0178-4617 (print), 1432
0541 (electronic). URL http://link.springer.de/link/serv
ices/journals/00453/bibs/23n2p127.html; http://w
www.springerlink.com/openurl.asp?genre=article&issn=
0178-4617&volume=23&issue=2&spage=127.

tical approximate string matching. Lecture Notes in Com
puter Science, 644:182–??, 1992. CODEN LNCSD9. ISSN
0020-0190 (print), 1872-6119 (electronic).

tical approximate string matching. Information Process
ISSN 0020-0190 (print), 1872-6119 (electronic).

dimensional pattern matching. Information Processing Let
ters, 45(1):51–57, January 25, 1993. CODEN IFPLAT. ISSN
0020-0190 (print), 1872-6119 (electronic).

[BZ98] H. Bunke and M. Zumbuhl. Acquisition of 2-D shape mod
els from scenes with overlapping objects using string match
CODEN LNCSD9. ISSN 0020-0190 (print), 1872-6119 (elec
tronic).

Java’s search capabilities? Dr. Dobb’s Journal of Software
REFERENCES

Cameron:1999:RXS

Clarke:1997:URE

Cantone:2013:ESM

Campanelli:2012:PMS

Cole:1993:OFP


REFERENCES

Consel:1989:PEP


Colussi:1996:TSE


Cheng:1996:FHR


Chen:2005:ESM


Chew:1995:GPM

REFERENCES

Champarnaud:2015:TSD


Corradini:1995:FAM


Calvanese:2008:CQC


Cochran:2015:PBP


Calvanese:1999:RRE


Caron:2011:PMB


REFERENCES


REFERENCES


1990. Formerly called the Annual Symposium on Switching and Automata Theory. IEEE catalog number 90CH29256. Computer Society order no. 2082.

Crochemore:1997:CTR


Crochemore:1998:CTO


Cabello:2008:PCD


Cohen:2006:JJTa


Chandramouli:2010:HPD


Cadar:2008:EAG

[CGP+08] Cristian Cadar, Vijay Ganesh, Peter M. Pawlowski, David L. Dill, and Dawson R. Engler. EXE: Automatically generat-

**Crochemore:1995:TDP**


**Crochemore:2013:ALI**


**Crochemore:1999:CSS**


**Crochemore:1999:CSS**


**Chan:2002:RTE**


**Chan:2003:RTE**

[CGR03] Chee-Yong Chan, Minos Garofalakis, and Rajeev Rastogi. RE-tree: an efficient index structure for regular expressions.
REFERENCES


Colazzo:2017:LTM

Cole:1992:TBE

Cole:1997:TUB

Cole:1997:TPM

Cole:2002:ASM
REFERENCES


REFERENCES

CODEN LNCS9D9. ISSN 0020-0190 (print), 1872-6119 (electronic).

Champarnaud:2001:ISI


Champarnaud:2002:ETI


Chauve:2002:TPMa


Chauve:2002:TPMb


Chen:1996:PCM

REFERENCES

Cheney:2008:FFU


Chivers:2017:OUR


Chlipala:2008:PHO


Chen:2014:BPA


Chan:2007:CID


Cole:2014:TDP


Chia-Hsiang:1992:RED

[CHP92] Chang Chia-Hsiang and Robert Paige. From regular expressions to DFA’s using compressed NFA’s. *Lecture Notes in
REFERENCES


**Cole:1995:TLB**


**Christie:1996:SPB**


**Chung:1995:FSM**


**Cleophas:2006:TRA**


**Crochemore:1998:TDP**

REFERENCES


[Chung:2002:TPO] Tae-Sun Chung and Hyoung-Joo Kim. A two phase optimization technique for XML queries with multiple regular path

[Cerrito:2004:PMC]


[Cohen:2008:EEP]


[Cui:2007:SPM]


[Coetser:2009:REH]


[Chang:1990:ASM]


[Chang:1992:TEC]

William I. Chang and Jordan Lampe. Theoretical and empirical comparisons of approximate string matching algorithms.
REFERENCES


Chang:1994:SAS


Choi:1995:TDP


Crochemore:1996:PMT


Cameron:2009:ASS


Champarnaud:2004:RWE


Cho:1995:LHC


REFERENCES

CODEN IFCNA4. ISSN 0019-9958 (print), 1878-2981 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0019995858900822. This paper show the equivalence of regular languages and regular sets.

Cisneros:1986:IPL


Consens:1990:GVF


Chang:1994:ASM


Consens:1995:AQT


Cormode:2007:SED

Graham Cormode and S. Muthukrishnan. The string edit distance matching problem with moves. ACM Transactions
REFERENCES

on Algorithms, 3(1):??, February 2007. CODEN ???. ISSN 1549-6325 (print), 1549-6333 (electronic).


REFERENCES


REFERENCES


Cooperman:1986:SMC


Cooper:1989:FHO


Cope:1991:RMU


Cox:2007:REM

Russ Cox. Regular expression matching can be simple and fast. Report, swtch.com, Cambridge, MA, USA, January
See also [Tho68, KP99c, Cox09, Cox10a, Cox12].


Chang:1997:RED


Cohen:2010:FSI


Cai:1992:MEB


Carroll:1988:RBP


Chrobak:1987:RSM


Crochemore:1991:UKM

REFERENCES


REFERENCES

Crochemore:1992:SMO


Chazottes:2006:APM


Cardoze:1998:PMS


Choi:2011:CPM


Campeanu:2003:FSP


Colussi:1996:HCC

REFERENCES


IEEE:1986:PCI


Cleary:1984:DCU


Chen:2013:EMT


Cleophas:2010:NTS

REFERENCES

Champarnaud:2001:CEA

Chen:2009:DPM

D'Andrea:1998:DEP

Dai:2009:AAM

Danvy:1991:SCN

Davison:1973:RSC
<table>
<thead>
<tr>
<th>Reference</th>
<th>Author(s)</th>
<th>Title</th>
<th>Journal/Conference Details</th>
<th>URL</th>
</tr>
</thead>
</table>
REFERENCES

April 2015. CODEN ????? ISSN 2157-6904 (print), 2157-6912 (electronic).


[DGM90] M. Dubiner, Z. Galil, and E. Magen. Faster tree pattern matching. In IEEE [IEE90], pages 145–150. CODEN ASF-


REFERENCES

ISSN 0747-7171 (print), 1095-855X (electronic). Parallel symbolic computation.


REFERENCES


REFERENCES


REFERENCES


REFERENCES

2013. CODEN CPTRB4. ISSN 0018-9162 (print), 1558-0814 (electronic).


REFERENCES


Eilam-Tzoreff:1988:MPS


Ellis:1998:REC


Ehrenfeucht:1974:CMR


Faloutsos:1985:AMT


Farnum:1992:PTA


Fateman:2015:PAS

REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[Fan:2010:GPM] Wenfei Fan, Jianzhong Li, Shuai Ma, Nan Tang, Yinghui Wu, and Yunpeng Wu. Graph pattern matching: from intractable
REFERENCES


Florescu:1998:QCC


Fischetti:1993:CIP


Fischetti:1993:IPO


Fredriksson:2006:EPS


Franklin:2002:PAS

REFERENCES


REFERENCES


REFERENCES

Fredriksson:2003:SSM

Fredriksson:2006:LAS

Friedl:1997:MRE

Friesenhahn:1997:EOU

Friedl:2002:MRE


Friedl:2006:MRE


Frisch:2006:OX


Farach:1995:SML


Farach:1998:SML


Fredriksson:2004:ESM


Fricker:1995:ICI

Christine Fricker, Olivier Temam, and William Jalby. Influence of cross-interferences on blocked loops: a case study.
REFERENCES


REFERENCES


REFERENCES


REFERENCES

Ganapathi:1989:PBR


Ganapathi:1989:SPP


Gawrychowski:2012:SEL


Gawrychowski:2013:OPM


Gonnet:1990:AKR


Gonnet:1990:AKS


Garai:2001:CGA


REFERENCES


REFERENCES

CODEN IFCSEN. ISSN 0129-0541 (print), 1793-6373 (electronic).


[Grathwohl:2016:KCN]


[Graham:1982:ETD]


[Gulwani:2012:SDM]


[Ganguly:2017:STT]


[Geser:2005:TPS]
REFERENCES

[135x681] REFERENCES


REFERENCES

1973. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic).


REFERENCES

113–120, November 30, 1989. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).


REFERENCES


**Gonnet:1983:UDB**


**Gonnet:2002:SMP**


**Good:2005:RER**


**Gorman:2000:PCT**


**Galil:1990:IAA**


**Galil:1992:TAI**

REFERENCES


Gasieniec:1995:CSS


Gasieniec:1995:ZMR


Gemis:1993:GGO


Garg:1992:CRE


Guglielmo:1996:NLR


Gasieniec:1999:AOF

REFERENCES


REFERENCES


Ganesan:1993:STL


Gokhale:1993:DBC


Giancarlo:2000:CPM


Gustafsson:2006:EMB


REFERENCES

CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).


REFERENCES


Eric N. Hanson. Rule condition testing and action execution in Ariel. In Stonebraker [Sto92], pages 49–58. ISBN 0-89791-521-
6. ISSN 0163-5808 (print), 1943-5835 (electronic). LCCN ????.


REFERENCES


REFERENCES


Heiberg:2003:TDF


Hardavellas:2009:RNN


Hullin:2008:FIR


Hyyro:2005:IBP


He:2005:WWS


Haskin:1983:OCH

REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[HR00] Ted Hung and Susan H. Rodger. Increasing visualization and interaction in the automata theory course. *SIGCSE Bulletin*
REFERENCES


REFERENCES


REFERENCES


[HVP05] Haruo Hosoya, Jérôme Vouillon, and Benjamin C. Pierce. Regular expression types for XML. *ACM Transactions on Programming Languages and Systems*, 27(1):46–90, January
2005. CODEN ATPS DT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Han:2007:OSR


Hooimeijer:2009:DPS


Hundt:2012:ETD


Hwang:1985:PSC


Henry:1990:UWI

References


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


References


REFERENCES

Jedrzejowicz:1987:NSC


Jiang:2012:SPM


Jagadish:2000:ODM


Jiang:1993:OWH


Jiang:2014:SSJ


Jambunathan:1992:DIF

of Artificial Intelligence in Engineering, pages 228–243, 1992. CODEN AAIEEO.

Ju:1985:CSF


Janicki:1990:TSS


Jategaonkar:1993:TIE


Judd:2008:BGG


Jouannaud:1997:ADT


Johansen:1969:FGR

REFERENCES


REFERENCES


REFERENCES


REFERENCES


Kim:1993:MPM


Kearns:1991:ERE


Kearns:1991:T


Kim:2014:OPM


Koutrika:2008:CST


Kerren:2004:GME

[Ker04] Andreas Kerren. Generation as method for explorative learning in computer science education. SIGCSE Bulletin (ACM
REFERENCES

Kernighan:2007:REM


Kessler:1979:PPM


Kesner:1991:PMO


Klier:1991:FCB


Kiezun:2012:HSW


Kumar:2005:PCO

Kawanaka:2006:BBT


Khan:2016:TOS


Kida:2009:STB


Kusudo:2015:BPA


Kim:1999:NSP


King:1989:UNN


REFERENCES


[KM92] James R. Knight and Eugene W. Myers. Approximate regular expression pattern matching with concave gap penalties. *Lec-
REFERENCES

Kilpeläinen:1994:QPT


Knight:1995:ARE


Knight:1995:SPM


Kristensen:1985:APF


Knuth:string-search


Knuth:1977:FPM


Knuth:1994:FPM

[KMP94] Donald E. Knuth, James H. Morris, Jr., and Vaughan R. Pratt. Fast pattern matching in strings. In ichi Aoe [iA94],
Kida:2003:CSU


Kida:2001:MPM


Katoen:2000:PMA


Krauss:2012:PPR


Knight:1989:UMS

REFERENCES


REFERENCES


REFERENCES


REFERENCES


Karpinski:1994:AIO


Kucherov:1995:UGR


Kucherov:1997:MSS


Krauss:2008:PMP


Krishnaswami:2009:FPM


Kovaleski:1987:AIS


REFERENCES


REFERENCES


Kim:1994:FSM


Kurz:2012:CLI


Kucherov:2016:ASM


Karachalias:2015:GMT


Kamel:1993:SRH


Kuo:1990:NSC


REFERENCES


REFERENCES

Kumar:2015:IAM


Kulekci:2012:FPM


Kim:2007:GAT


Kim:2008:SOF


Kupferman:2002:IAM


Lin:2012:AAA

REFERENCES


Labarre:2012:RCP


Larsen:1998:REN


Larsson:1999:SSM


Laurikari:2000:NTT


Laville:1991:CPR

Lladser:2008:MPM


Lu:2006:PFS


Little:2010:OSM


LeBret:1991:RSM


Lecroq:1995:ERS


Lecroq:1998:ESM

REFERENCES


REFERENCES


REFERENCES


REFERENCES


[LLLC17] Cheng-Hung Lin, Jin-Cheng Li, Chen-Hsiung Liu, and Shih-Chieh Chang. Perfect hashing based parallel algorithms for multiple string matching on graphic pro-


REFERENCES


REFERENCES


Lopez-Ortiz:1994:LPM


Lohrey:2010:CMP


Lipsky:2008:PML


Lipsky:2011:APM


Le:2013:MEM


Lozano:2008:STA

[LPR08] Antoni Lozano, Ron Y. Pinter, Oleg Rokhlenko, Gabriel Valiente, and Michal Ziv-Ukelson. Seeded tree alignment. IEEE/
Li:2012:WHT


Lopez:2014:MPR


Luczak:1994:LDC


Laird:1999:REN


Laird:2006:RER

Cameron Laird and Kathryn Soraiz. Regular expressions: Rexx still going strong. *UNIX Review*, ??(??):.
REFERENCES


[Libkin:2010:DPM]

[Lee:2017:DPD]

[Litvak:2008:PRB]

[Lam:2008:IAS]

[Lins:1990:ISU]
REFERENCES


REFERENCES

Lutz:2002:BRB


Landau:1986:ESM


Landau:1986:IEP


Landau:1989:FPS


REFERENCES

CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).


Manber:1991:ASM


Ma:2011:CTG


McIsaac:1985:PMA


McIlroy:2004:ESR


Moreira:2017:FCR


Might:2010:YD


REFERENCES


Matzen:1993:MSA


Matzen:1997:FLM


Manole:2014:PSP


Mhashi:2005:EMR


Marschall:2012:PAA


Mitarai:2001:CPM


Matsumoto:2009:RTE


Mori:2007:PID


Middendorf:1996:TDP


Middendorf:1998:SCS


Mitani:2017:PEA

Mischel:1989:WAE


Misra:2003:DPS


Mahajan:1990:EPI


Mak:1991:EPP


Mossouni:1996:CSM


Moussouni:1996:DSM


Moscola:2008:RCB


Mateescu:2011:CEC


Medeiros:2014:RPE


Mytkowicz:2014:DPF


Mandreoli:2010:PHS


Martens:2012:DAX


Martens:2007:SSA

REFERENCES


[Moo64] Edward F. Moore. *Sequential Machines: Selected Papers*. Addison-Wesley series in computer science and information
processing. Addison-Wesley, Reading, MA, USA, 1964. v + 266 pp. LCCN QA76.5 .M57.


REFERENCES


REFERENCES


REFERENCES

MuQqoz:1995:MTW

Makinen:2002:LSB

Matsushita:1996:FPM

Munoz:1994:MTW

Mungan:2007:SML

Mustafa:2003:MDS


REFERENCES


REFERENCES


REFERENCES


Navarro:2001:RES


Navarro:2004:ARE


Navarro:2004:PM


Navarro:1999:FMD


Navarro:1999:NIM


Navarro:1999:VFS

REFERENCES


Navarro:2001:IAA


Neraud:1992:SMI


Navarro:2006:MIA


Ni:2014:HCD


Nordio:2010:IQE


Nedjah:2002:PMC

REFERENCES


Nsira:2017:LSM


Neuburger:2010:BRB


Navarro:2004:ACE


Ng:1979:ESS


Nicodeme:2003:RSP


Nilsen:1990:SDT

REFERENCES


[NR00] Gonzalo Navarro and Mathieu Raffinot. Fast and flexible string matching by combining bit-parallelism and suffix au-


REFERENCES

2012. CODEN SINODQ. ISSN 0362-1340 (print), 1523-2867 (print), 1558-1160 (electronic).


[ORT08] Scott Owens, John Reppy, and Aaron Turon. Regular-expression derivatives reexamined. Report, University of Cambridge and University of Chicago and Northeastern University, Cambridge, UK; Chicago, IL, USA; Boston, MA, USA, August 12, 2008. 18 pp. URL http://www.ccs.neu.edu/home/turon/re-deriv.pdf.


REFERENCES


REFERENCES


REFERENCES

15, 2002. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic).


Pettersson:1992:TPM


Petersen:1994:RSM


Petersen:1995:RPB


Petersen:2002:MPR


Petersen:2007:SMS


Peacocke:1990:ISS

Phillips:1994:ASM


Pientka:2008:TTF


Pike:2000:TES


Penna:2003:SRE


Pramanik:1985:HPM


Park:1995:SMH

REFERENCES

CODEN LNCSD9. ISSN 0020-0190 (print), 1872-6119 (electronic).


REFERENCES


Puel:1993:CPM


Pandurangan:2010:UOC


Patrick:2008:CEO


Parreaux:2017:QSR


Partsch:1991:ACS


Paredaens:1992:OG

[PVA+92] Jan Paredaens, Jan Van den Bussche, Marc Andries, Marc Gemis, Marc Gyssens, Inge Thyssens, Dirk Van Gucht, Vijay


REFERENCES


REFERENCES


REFERENCES


Rottenstreich:2017:ORC


Rendel:2015:ARL


Rautio:2002:SMSa


Rautio:2002:SMSb


Reingold:1997:KMP

<table>
<thead>
<tr>
<th>Reference</th>
<th>Citation</th>
<th>Title</th>
<th>Journal, Volume, Pages, Publisher, Volume, Pages, Publisher, Volume, Pages, Publisher, ISBN, CODEN, ISSN, Electronic ISSN</th>
</tr>
</thead>
</table>


CODEN ITCBCY. ISSN 1545-5963 (print), 1557-9964 (electronic).


REFERENCES


Computer Society Order Number PR00096. IEEE Order Plan Catalog Number PR00096.


Bruce Schneier. One-way hash functions: Probabilistic algorithms can be used for general-purpose pattern matching. *Dr. Dobb’s Journal of Software Tools*, 16(9):148–151, September 1, 1991. CODEN DDJOEB. ISSN 1044-789X.

Bruce Schneier. One-way hash functions: Probabilistic algorithms can be used for general-purpose pattern matching. *Dr. Dobb’s Journal of Software Tools*, 16(9):148–151, September 1, 1991. CODEN DDJOEB. ISSN 1044-789X.


REFERENCES


REFERENCES


Sestoft:1996:MPM


Singh:2001:PMN


Singh:2012:LSS


Singh:2016:TSD


Shankar:2000:NAL

Stearns:1985:ECP


Sharpe:1988:ARE


Shapiro:1993:CCR


Soo:1993:DCP


Shepherdson:1959:RTW


Shields:1992:SME

REFERENCES


REFERENCES


REFERENCES


Stubblebine:2004:SHD


Storer:2009:DPD


Storer:2010:DPD


Storer:2011:DDC


Sahinalp:2004:CPM

Siromoney:1994:ILW


Smith:1991:PEP


Shahbazz:2015:AGV


Suzuki:1986:SVD


Saoudi:1992:OPA

REFERENCES

CODEN LNCSD9. ISSN 0020-0190 (print), 1872-6119 (electronic).


Spencer:regexp


Schwartz:2008:LP


Spinellis:1999:DPO


Spinellis:1999:TCD


Sitaridi:2016:GAS


Sridhar:1988:CBG


Srinivas:1993:STA

REFERENCES


REFERENCES

CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).

Salmela:2006:MSM

Salmela:2010:ABM

Stonebraker:1992:PAS

Stojmenovic:1996:CTB

Stomp:2002:CSP

Shibata:1999:PMT
Yusuke Shibata, Masayuki Takeda, Ayumi Shinohara, and Setsuo Arikawa. Pattern matching in text compressed by using antidictionaries. Lecture Notes in Computer Science, 1645:
REFERENCES


REFERENCES

Schwerdfeger:2009:VCD


Sagot:1997:MSC


Saxton:1990:FGA


Schwartz:1993:DSI


Snodgrass:1994:PAS


Sima:1998:TN

Smyth:2009:AHP


Schafer:2012:DCH


Sun:2012:ESM


Salton:1975:VSM


Squillante:2001:AQU


Smith:1972:GRE

SY72 L. W. Smith and S. S. Yau. Generation of regular expressions for automata by the integral of regular expres-

**Symes:1985:POC**


**Schoenmeyr:2005:FBA**


**Takaoka:1986:OPM**


**Takeda:1993:FMA**

Takaoka:1994:APM


Takahashi:1996:UCN


Takaoka:1996:LRP


Tanaka:2014:IEE


Tarjan:1981:FAS


Tarjan:1981:UAP

REFERENCES

577–593, July 1981. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic).


Chris Tuijn and Marc Gyssens. CGOOD, a categorical graph-oriented object data model. *Theoretical Computer Sci-

Tarhio:2017:TBA


Thiemann:1993:ART


Thompson:1968:PTR


Thomas:1981:RSH


Takahashi:1990:SCM


Toda:1983:TDP

REFERENCES

CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).


REFERENCES


REFERENCES


References


REFERENCES


REFERENCES


[Val09] Gabriel Valiente. Combinatorial pattern matching algorithms in computational biology using Perl and R. Chapman and
REFERENCES


Vansummeren:2006:TIU


vanderLoo:2014:PRP


Vujovic:1998:EAF


Varol:2012:HMA


Valgenti:2012:GGH


Viswam:2017:EBF


Vialette:2002:PMP


Vialette:2004:CCI


Vineberg:1977:ICSa


Vineberg:1977:ICSb


Vishkin:1990:DSN


Vishkin:1991:DSN

REFERENCES

Visser:1999:SPM


Vazou:2017:TTP


Veanes:2015:DPS


vanNoord:2001:ERE


Volanschi:2012:PMM


Vouillon:2006:PRT

DEN SINODQ. ISSN 0362-1340 (print), 1523-2867 (print), 1558-1160 (electronic).


REFERENCES

April 18, 2003. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).


[Wendling:1999:PRS]

[Weatherford:1994:HPE]
Stephen Andrew Weatherford. High-level pattern-matching extensions to C++ for Fortran program manipulation in Polaris. Thesis (m.s), University of Illinois at Urbana-Champaign, Urbana, IL, USA, 1994. viii + 104 pp.

[Weiser:1983:RSB]

[Weiner:1984:LRK]

[Wentworth:1993:GRE]

[Westly:1997:TTA]

[Wang:2013:RPM]


Wulf:1983:SFR


Wolberg:1986:SOC


Wolff:1990:SPS

REFERENCES


[WWW+16] Zhongyuan Wang, Fang Wang, Haixun Wang, Zhirui Hu, Jun Yan, Fangtao Li, Ji-Rong Wen, and Zhoujun Li. Unsupervised head-modifier detection in search queries. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 11(2):
Wobber:2007:AAS


Watson:1996:TSM


Wang:2012:RCM


Wang:1995:PMP


Wu:2014:FMN

REFERENCES


REFERENCES

AINFA2. ISSN 0001-5903 (print), 1432-0525 (electronic).


REFERENCES


REFERENCES


Zhu:2012:GFE


Zhang:2007:MPP


Zheng:2011:SPM


Zhang:2003:APM


Zobel:1993:SLL


Zha:2013:GGH

Xinyan Zha and Sartaj Sahni. GPU-to-GPU and host-to-host multipattern string matching on a GPU. IEEE Trans-


Zvegintzov:1980:PRI


Zu:2012:GBN


Zeng:2012:CSB


Zhang:2010:PMW


Zhang:2016:CRA