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]. $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]. $d  
[CIL+03]. $\epsilon [HM98, Lif03]. K  
[COZ09, ALP04, CW18, FWW13a, FGKU15, GG86, GU16, GGF13, Gra15,  
GL89, HT17, JL93, KVX12, NYuR15, NR17, WD99]. $L_1 [LP08, LP11]. L_2
[LP11]. $L_\infty$ [LP11], $L_p$ [WC14], $\mu$ [DJ96]. $N$
[ML96a, ML96b, KST94, KWLO7, KWLO8, Wag74]. $O(\text{mod} T \text{mod } 3)$
[KKM+85]. $O(\log \log n)$ [BG90]. $O(n^2 \log m)$ [CNS18]. $O(n(m/w))$ [GF08].
$O(n \log^2 m)$ [Ham98]. $O(n \log^3 m)$ [CH97]. $O(s^2)$ [CZ01]. $q$
[HKN14, STK06, Sal12, ST95, ST96b, ST04, Ukk92]. $r$ [Pol13]. $\rho$ [CFK07].
$x^my^n = z^p$ [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, KWLO7, KWLO8, Sal12, KWLO7]. -Gram/2L-approximation [KWLO7]. -Grams [ST04, STK06, Ukk92]. -Interval [Vio02, Vio04]. -Like [HK11]. -M [Ram94]. -Matching
[BGFK15].

.NET [AS04, SM04, Stu07].

'08 [ACM08].

1 [KJS17]. 1003.1-2001 [IEE01a, IEE01d, IEE01c, IEE01b], 10th [PC99].
11th [GS00]. 12th [AL01, Bun94], 13th [AT02]. 14th [AAC+01, BYCC03].
[ACM92a, ACM92c, ACM92d, Sto92]. 1993 [ACM93a, ACM93b]. 1994
[ACM94a, ACM94d, SW94]. 1995 [ACM95a, ACM95b, ACM95c]. 1997
[ACM97a, ACM97b, ACM97c]. 1999 [ACM99a, ACM99b, AOV99]. 19th
[ABB93, FL08].

2L-approximation [KWLO7].

3.0 [BWN08]. 30th [IEE89]. 31st [IEE90, KLB12]. 32 [Gio91a]. 33rd
[IEE92]. 34th [IEE93]. 36th [IEE95a]. 38th [IEE97]. 39th [IEE98].

4 [Ano12, Bro77]. 40th [ACM08]. 4th [Apo93].

5 [B+05]. 50th [IEE09]. 5PM [BEM+12, BEM+13]. 5th [CG94b].
6 [IEE01a, IEE01d, IEE01c]. 68 [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], [978-1-4493-1943-4].

'90k [Gro91a]. '92 [ACM92b]. '93 [ABB93, Bao93, SC93]. '94 [ACM94a, ACM94c, BGG+94, SW94]. '95 [ACM95a, ACM95b, IEE95b, Lev95, SC95]. '96 [SC96]. '97 [ACM97a]. '978 [Ano12].

Abstracting [JSH09]. Abstract [CDL95, Gon02, HOS85b, JO97, LM02, Pre99, AG06, BC93, Chl08, CM95, GPN96, GV00, HOS85a, Pie08, Zei08]. Abstract [CDL95, Gon02, HOS85b, JO97, LM02, Pre99, AG06, BC93, Chl08, CM95, GPN96, GV00, HOS85a, Pie08, Zei08].
MUHT96, ML96a, ML96b, Mye92, Mye98, NBY01, OR12, PS10, Pou93, PK85, RPE81, Sad96, Ski98, SW09, Sun90, Tak86, VB12, VB98, WPKN13, Wat96, WMM95, Yam01, Alb99, AGW13, BGJ89, BG90, Bre96, BC95, Cha93a, CLS95, CW13, CD96, CNPS15, CNS18, CR91, Dai90, DR06, DS04, Der95, Dow91, Gal92, GBY90a, GBY90b, GLS92, Han93, HFS05, HR03, IKX15, IP96, II86, ISHY88, KKM85, KR89, KST92, Kim99, KKR13, KIH15, LV86b, Lee82, Liu81, LHCK04, Maa06, MBY91, Mis03, MS95.

algorithm [Mye99, NRO12, Neb06, PLL10, PS90, Per94, Ryt80, SW90, SS94, SGM00, Sto02, Tak96b, Tak93, TZYH14, TM05b, TU88, Tho68, WW03, Wat03, YT03, YHV+15, ZC99, dB93].  
algorithme [Alb89].  
Algorithmic [ABBH16].  
Algorithms [ACM97b, AHU74, ALR08, iA94, ADLM96, BY96, BLP94, BS97, BH02, BJM79, BCFL12, CL92, CHL14, CH95, CHZ06, CLR90, CR92, CCG+94, DB86, FL12b, Gal76b, GG97, GS85, GIG77, GK86, Gus97, Hig86, HSTS01, ISNH94, JTU96, KKP16, KU87, KR81, KR87, KP99c, Kha16, KMT+01, Lab12, Lec95, LLLC17, LT16, LS94, Lu02, MP05, Mut97, Ott94, Par96, Pol13, RS98, SV94, SN92, Sed83, Sed90, Sim94, Tar81a, VG01, YD95, ZZ12, de 82, ALP04, AG97, ADLM01, AR16, BYF96, Bak93, Bar84, CMO08, CDDM05, CLT07, CWZ10, CCG+93, CT96, CR94, CL96, DC94, ESSS88, Gal75, Gal76a, Gal84, GG13, HTX17, Ind08, JU91, KN00, Lec07, MAC14, MW92b, Mha05, MM07, MR13, NR02, Par98, PDC94, QLY07, Sal12, Sch91a, Sch91b, SZ05, Tn14, THG17].  
algorithms [Val09, VHL+12, WZ96, A+08, Len93, Ano97b].  
Aligned [LSTW+17, SN94].  
Alignment [BLP94, Ben94, BDFW94, HPM94, JZ94, KK08, LPT12, LPR+08, Pol13, RND97, CLT07].  
Alignments [Cha94].  
All-Against-All [LA12, BSTU08].  
Allocation [VSM87, YD95].  
Allowing [FNU02, CCF13, WM92a].  
Almost [CGPS13, GR99, LMM17].  
Almost-linear [CGPS13].  
Almost-optimal [GR99].  
Alphabet [AFM94, ABF94a, CR95b, KR94, KRR17, TP97, AFI98, AGM05, GP92].  
Alphabet-Independent [CR95b, KR94, GP92].  
Alphabets [Bre94a, CLP98, Fre02, KT06, KST12, STK10, Cro92b, Fre03, YHV+15].  
Alternating [BL16].  
Alternative [Bar81, JZ94, AP90, Fat15].  
Alto [IE93, IE98].  
always [LMM17].  
Amar [Nem09].  
Ambiguity [MGH93, SL17].  
ambiguous [NdMM02a].  
American [NEH90].  
Analyses [WHZ+17].  
Analysing [HH93a, HH93b].  
Analytical [HH93a, HH93b].  
Analyze [HH93a, HH93b].  
Analyses [HH93a, HH93b].  
Annealing [HSTS01, MNNS12].  
ands [Edw07].  
aminate [BYF96].  
annotated [GGN06, RH81].  
annotation [YJK08].  
Annual [ACM81, ACM87, ACM92a, ACM93a, ACM97b, ACM00, ACM08, AP10, AH97, AT02, FC98, FL08, FJ92, GM11, HM96, IE90, IE92, IE93, IE95a, IE97, IE98, IE09, KS12a, KU99, Len93, LV06, MZ07, NEH90, ACM74,
ACM76, ACM78, ACM84, ACM86, ACM89, ACM90b, ACM92d, ACM93b, ACM94d, ACM95c, ACM97c, ACM99b, AL01, Apo92, Apo93, ACP05, BYCC03, CG94b, DT87, GU95, GS00, IEE89, IEE95b, PC99, SMD04. 

**Answer** [KKSL01, ADT15]. **Answering** [KKSL01, ZC ¨OZ12, AL08, CDL08, CKC07]. **Answers** [Ano92a]. 

**Antidictionaries** [STSA99]. **Antisymmetric** [Gil70]. 

**Antons** [Joh01]. **any** [PW93]. **Apostolico** [Ano97b]. 

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

**Applications** [BM00, Brz62, CL94, Gia93, GV05, HSTS01, Hu92, HN05, IEE94b, IEE95b, IJK80, MHKR12, Pol13, Sch95, AS04, Bak93, B+07, Che96, FMD99, FG99, FLSS93a, FLSS93b, GV00, Ind97, KKP92, RTO15, SR16, SW201, VHL+12, WYA+07]. **Applied** [DGBH93, PDL98, DGBH93]. 

**Applying** [AK08, SdM01]. **Approach** [ABF94a, CFM17, CCH09, Cox09, DC94, FKRV15, FL12b, IMR08, KTS99, LP13, Lu02, NR98, NR99b, RM88, Sha93, Tar81b, B+05, BYG92, BSTU08, BG91a, BCD14, FMD99, GPR95b, GW92, Goo05, HLN09, LKB08, Mus03, dSOMY15, PP85, PPI17, SVS97, SD91, SRI93]. **Approaches** [BM08, VNG01, FBMA05, MR13]. **Approximate** [Aku94, Aku95, AAK+09, AEC+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, HT17, HM00, HHL06, HN02, HN05, IMP01, JTM96, KM92, KM95a, KST16, LSW08, LH03, LP11, LLI+15, MW92a, MW92b, Me95, MM02, MIH17, MM99, Mye98, MOG98, Nav98, NBY99a, NBY99b, NBY01, Nav04a, NRS18, OM88, PDM01, Par96, PW95, Phi94, PP09, Sad96, SK70, ST95, ST96b, ST04, Tak94, TU93, Ukk92, Ukk93, UW93, VRD01, Wri94, WM92b, WM95, ZMAB03, van14, AGW13, BYP96, BPL92, BFG99, CRV06, DLF+15, DC94, FN04, HLS+11, HT17, HFN05, Hyy08, JU91, KST92]. **approximate** [KWL07, KNT11, LV86b, LV89, LT97, LLI+13, MW94, MM03, MM07, Mus05, Mye99, Nak14, NBY99c, Nav00, NKT+01, Nav01a, NF04, NC06, Par98, Sad93, SW90, TLS16, WC14, ZA17, ZD95]. **Approximated** [PW93]. 

**Approximately** [Coh94, Mye95]. **Approximating** [TY97]. **Approximation** [ADLM96, ADLM01, BLP94, CM08, KR89, KWL07, TU88]. **April** [ACM74, ACM84, ACM90a, AGS93d, Apo92, SC93, SC96, SC98, SC02]. 

**Arabic** [Ku11, Mus03, Mus05, ZA87]. **arbiters** [SMT+86]. **Arbitrary** [Nav04a, YH92]. **arc** [GGN06]. **arc-annotated** [GGN06]. **Architectural** [CL90, IS90]. **Architecture** [BTC06, CG87, CF85, HKL+14, LHCH93, Lee09, TS05, YP12, FKS06, KRL87, MM07, ZV97]. **Architectures** [TVC12]. **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].


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, MR99b, NR98, NWE97, Ned98, Pet92, RS59, SM56, SM74, She59, SSSS10, Sin94, UW93, BDFR08, BS86, BH96, BK93c, CR87, GOMSJVGP08, HW07, HM00, HR00, KL56, Lau00, NR00, NWE99, NdMM02a, NK07, Pet94, Ryt89, SY72, SBR +07, SH85, VW11, YH91, YB13, ZHH16].

automata-driven [NWE99]. automata-like [YH91]. Automated [Bun94, Rémi17, Bun94]. Automaton [SM74]. Automatic [BA06, DMWW77, KP93, RTO15, SWY75, SMS15, WKR09, Ear74, MR09a, PS93a].

Automatically [CGP +08, Kuk92, Mor02, StM01]. Automating [Kah06]. Automaton [CZ01, GJ16, LY86, Ant96, BYG96, COZ09, Hur84, Lei80, TLLL07, TLLL09, ZC99]. automaton-matching [TLLL09]. availability [LLL12]. Average [FN04, HKN14, Mon17, 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 [HT11].

B [Pet95, FG99, FV16]. B-Tree [FV16, FG99]. B.E. [Sca11]. Back [GH15, ESL89, Sla98]. 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, CZZC09, D’A98, FYJ +17, FL12a, GR96, HH83, Kid90, KSS01, KVX12, KNM00, LLLC17, LT09, LS94, Lut02, MU02, MG79, Mye98, ND02, PS10, Sad96, SF01, SL17, TMV +01, TK07, WPK13, WD99, WZU14, Yun12, AFI98, ASM17, Ano96, ARS16, BKE18, BC06, Bro77, BFS00, CW13, CLP95, CK08, DFL +15, Far92, Gan89a, Grr88, Ier09, IITK08, IIO8, KS07, KN00, LLL12, LHCK04, Lus94, MLC08, Mye99, NRO12, PD12, SZ05, TM04, TP07a, TP07b, TPT13, WL15b, WSW16, WHZ +17, YT03, ZV97, ZZ12, ZXY +12].

Bases [AAC +01, B +02, Gom83, ABB93].
calculi [Dow91, Dow93]. Calculus [For02, CFK07]. California [ACM69, ACM86, ACM92c, ACM93b, ACM95a, ACM95b, HM96, IEE93, Sto92, IEE98, USE92]. Call [Jon07, MCP17]. 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].
Can [Cal00, Fri97b]. Canes [BL94, KR97, MBY91, NR17]. Carolina [ACM93a, IEE89, Sto92, IEE98, USE92].
California [ACM69, ACM89, Bao93]. Centric [TLC15]. CGI [Han01]. CGOOD [TG96]. Chain [MNS10, LBK08, SMT+86]. Chalmers [AJ89a, AJ89b]. change [Joh94a].
Chaos [ZGY+16]. Character [CLP95, Dav73, HZ13, HH93a, HK77, TMK+02, Wo96, CT96, HH93b, Per94, Vin77a, Vin77b]. Characterisation [KST12]. Characteristic [ISNH94]. Characteristics [HH83].
Chord [YJ84]. Chromosome [KS94]. Church [KKM+85]. Circuit [PM78].
Closure [LMN16, AS85, Jed87, Lee82, LH03]. Cloud [CFM17, CMD11].
clouds [SCF+17]. cluster [MM03]. Clustering [LSTW+17, KAT07].
Coconut [AK09b]. Code [AGT89, Cox12, Fra83, GH82, GHH83a, GH83b, Gie90, ND02, RT02b, SED14, VSM87, WHZ+17, WNL+83, AG06, BDB90, CLS95, FHP92, Gm89a, GH82, HV93, MSRR00, NA08, OW07, Rém17].
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, CMR10, HAI02, WL15a]. Colony [ACM83]. Color
[Hui92]. **Columbia** [ACM92d, ACM08, MG94]. **Com** [Lia84]. **Com-puter** [Lia84]. **Combating** [KEG+08]. **combinator** [Sta89]. **Combinatorial** [Ano17, BM08, Cro92a, GMV03, Mei08, SLTB+06, Val09, WCM+94a, WCM+94b, CDMM05, HL09, 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, 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, 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, FKS06, 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]. **Complexité** [Alb89]. **Complexity** [ABBH+16, BKL097, BDFW94, BCT94, BCT98, Col94a, CHP92, CH97a, EZ74, GG91, GG92, GK86, GH15, Hei01, HK11, HST01, KLH16, MNS10]. **components** [CFM00]. **Composite** [XK92]. **composition** [SV09]. **Comprehension** [BLS+94]. **Compress** [GH82]. **Compressed** [BR09, BA16, BKL097, CHLS07, CLS+10, CHP92, FT98, FV16, FT04, GP01, GP03, Gaw12, Gaw13, GV00, GV05, IST05, KTS99, Kid09, KS05, KS06, LSW08, Loh10, Man94, Man97, MHT09, MHH+01, NR99b, Nav01c, Rao95, STSA99, TMK+02, YK11, ZMSD93, AFB94b, BCD98, BFG09, BBK12, CP97, FT95, GR99, GO12, HHL06, KTS+98, KMS+03, NKT+01, NT05, SNZBY00, TM04, TM05b, TM05a]. **compressible** [BFK13]. **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, SC05, SM09, SM10, SM11, ASG99, AGS96, BFN90, Cha93b, CDC96, CL96, How96, Lar99, OW03, QZC17, RT02a]. **COMPSAC** [IEE95b]. **computable** [EH88]. **Computation** [Bro93, COZ09, Cha86, Lev95, Ng79, Rao94, WN90, CCI+13, Han02, Maa06, NA90, PS93a, QZC17, Tak96b, YT03, ACM94b]. **Computational** [Lab12, Gus97, HN11, Val90, 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, IEE99, Kül10, RJK79, SS93a, Coo86, Fat15, Gus97, II09, Ker04, SS94, VVV04, Win78, iA94, KP15].

**Computer-Recognized** [RJK79].

**Computing** [ACM69, ACM74, ACM81, ACM90b, ACM91, ACM92d, ACM93b, ACM95c, ACM97c, ACM99b, ACM00, ACM08, ACM17, CZ01, Cha94, DT87, DGBH93, FYJ+17, Ham98, Ham87, ISNH94, LM90, Rot91, RW10, Wol90a, BGPN94, BC95, IP96, LK88, Wol90b].

**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, 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** [BFW94].

**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** [Kar82].

**Construct** [IY02, Lei80, JRV96, TU88, TTHP05].

**Constructing** [CFM97, CLT07, XJT+04, ZJL14].

**Construction** [BP63, BH96, DPK11, FCFM00, Kos94, Mei08].

**Constructions** [Ant95, Ant96, Che96].

**constructive** [Tak96a].

**Containing** [HJ99, CFM00].

**Containment** [FLS98, CDL08, HN11, SH85].

**content** [LMT16, MLC08, TLL09].

**content-based** [MLC08].

**Context** [CK02a, Haz07, 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, Zha17].

**Cookbook** [ST03, GL12, Ano12].

**coordinated** [Mid98].

**coordination** [CFM00].

**copattern** [RTO15].

**coprocessor** [TLL07].

**Cooq** [MPdS12, VLP17].

**Corasick** [CW13, NK07, PLL10, TM05b, TZH+13, TVCM12].

**Core**
[TLC15, JA17, MAC14]. Cores [LSTW+17]. 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 [IIK08, II08]. correcting [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 [IIK08, II08]. correcting [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 [IIK08, II08]. correcting [Ryt80]. Correcting [Kuk92].
Correction [And02, Bur84, JP73, RJK79, Wag74, BSY00, Mae90, MS95, TIAY90].
Correctness [Sto02, SBR+07]. correlated [SWZ01].

D
[SHCY93, ASG99, BSM+07, BZ98, CJ93, LT90b, Mun07, TCCK90, ZLN11].
D-pattern [ASC99]. DAGs [ZZ12]. daisy [SMT+86]. Dallas
[IEE95b, NEH90]. Dark [Hum99]. Darmstadt [AGS93d]. Data
[ABM08, AAC+01, BLLW12, B+02, BGNV10, Bon07, CW84, DT87, EF13, FG99, FO76, FMA02, Gia93, GG97, Gon83, GS85, Har02, KM94, LSW08, LKL02, LM01b, LS94, MMS14, Neu10, Pre99, RPE81, Sed96, Sti78, SW94, Sto92, SC93, SC95, SC96, SC98, SC99, SC01, SC02, SC03, SM09, SM10, SM11, TV14, VMM15, WCM+94b, YDDB15, ABB93, AL08, BGHZ15, BFP+08, BFS00, BC93, Cha93b, CDC96, CD96, FG99, GMC02, GW92, GS93b, GPX96, GHS12, GS06, HN90, HSL10, HH16, JO97, JD89, Kra08, Lar99, LWS+16, Ni90, OR11, OSSK16, RW93, RM06, SMS15, SG16, TG96, Wad87, WCM+94a, SC04, SC05]. Data-Parallel
[VMM15, MMS14, GS93b]. data-parallelism [RW93]. Database
[ACM83, ACM90a, ACM92b, ACM94c, ACM95b, ACM97a, ACM98, ACM99a, ACM06, ACM07, CCL87, HAI02, VB98, GPTV93, IIK08, KL12, Len11, OKT92, HSH14, SR16, ZC09, KKP92]. Databases
[AAB+17, AOV+99, CCH09, GNU94, Pou93, WZS95, ZC0912]. 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 [CP+08]. Debugging
dimensions [CCG+93, dRL95]. Directed [Fu95, Fu96, Fu97, Gud02, Kor83, BÖ13, Dan91, Nil90]. Directly [Man94, Man97]. Directory [Zve80a, Zve80b]. Discontinuities [Lee91].
discourse [Kit94]. Discovering [LSTW+17, SW93]. Discovery [VG01, WCM+94b, MP05, WCM+94a, WZS95]. Discrete [ACM97b, Gim73, KC99, Nak14]. Disease-Specific [TMV+01]. Disease [TMV+01]. Disjoint [LS10, YD95].
Distributed [CPW88, IMR08, ML96b, NCKL14, TVCM12, ZLN11, AC93, Dsv94, FWW12, HFFA09, LLC03]. Distributed-Memory [TVCM12].
Document [BK93a, BKW92c, KNS12, All82, An93, BK93b, KRML09, WZS95, WCH82]. Domain [CF85, SKS96]. Donald [Neu10].
Drive [KK02, BC06]. driven [BCD14, GHS82, Mus03, NWE99]. Drosophila [YCKJ08]. DSL [BCD14]. DSL-driven [BCD14]. DTDS [BNSV10]. Dublin [ABB93]. Duration [XJT+04]. Duration-constrained [XJT+04]. during [Sch81]. Dynamic [AG89, ALL07, BSM++07, BFPN10, CL95, Mye98, Sch95, WBA83, ZLN11, BD98, CHLS07, CMG10, FhDAF09, HSL10, JSH09, LYWL08, Mye99].
Dynamics [JM85, MSP+17].
ECG [TZH+13]. Edinburgh [AOV+99]. Edit [JWZ94, RKO02, AE06, AK12, BC95, CM07, Leu97, LT07, QWX+13, SKS96].
Edited [Ano97b]. editing [DOS93]. edition [Ano12]. Editor [Pik00, Rtxx, Ano17]. Editorial [AGS93a, AGS93c, AGS93b]. education [Ker04]. effect [Mha05]. Effective [AG06, FKS06, ZGS+15, KC11, PC02, ZKA12]. effectively [ADT15]. effectiveness [BSY00, DNR06]. Efficiency [ALR08, San15]. Efficient [AC75, ACR01, ALV92, ALL09a, ALL09b, BKL18, BDB90, BC13a, BA15, BC13b, Ben94, BBH+87, Bra94, BC94, BG95, CF06, CCF13, C0Z09, CGR02, CDM05, CCI+13, CLT07, EMC96, FT04, FM06, GC01, GP01, GP03, Gau12, GLS07, Gn03, Gue90, GS06, HL10, HH16, HW12, KR81, KR87, KRS90, KS94, KKK11, KRR17, Kos89, LV86a, LP13, LKL02, LTL04, MK90, MHT09, NWE99, NDMM02a, NKO7, Owo93, PAMP12, PDC94,
QLY07, SA96, SWW+12, TZYH14, Yun12, AB09, Aoe89, CPT92, CGR03, CW13, CD96, Cox10b, ESL89, FNP09, FHP92, GPR95b, GL89, GLS92, LV86b, Lee82, Maa06, NAR08, PLL10, QWX+13, TD17, YKGS11, YB13, YHV+15, ZKA12, ZYX+12]. Efficiently [ADR15, DF00, Kim99].

Eighth [ACM86, ACM99a]. Eighth [ACM97b, B+02, ACM76].

Electron [DMWW77]. Electron-Beam [DMWW77]. Element [MGH93].

Eleventh [ACM92b]. Eliminants [AS85]. Elimination [Han13b, CK04].

Email [WR15]. Embeddable [Fri97b]. Embedded [TLLL07, TLLL09].

Embedding [BDFR08, Fu97, ZC ¨OZ12]. Embeddings [CMO08].

Emergence [Joh01]. Empirical [CL92]. Emptiness [Kar82, Rob79]. Empty [Zia96]. Emulator [VVV04].

Encoding [HAR10, KR92, RTT02b, Yun12, FDG+11, KR89]. Encrypted [HH16, OSSK16, WR15].

End [JLHB92]. Ends [ESL89].

Engine [CZCD09, Hab04, VCS+12, BC06, CW13, WL15b]. Engineering [Bao93, CFKT17, FHP92, IEE94a]. Engineers [NEH90, Lut02].

Engines [ABBH+16, TBS06, ZV97]. Enough [MR09a]. Ensembles [Alb89]. Entails [Kar82]. Entire [YCJK08].

Entropy [YDDB15, CR95a]. Entropy-Scaling [YDDB15]. Enumerating [McI04].


Exact [AOK02, BCT94, CHL14, CHPZ95, CH97a, FL12a, FNU02, GGG1, GG92, MIH17, MA12, PP09, ABI+14, Bak78, CH92, CGG90, DHPT10, FL13, HX17, Kar82, Lec07, NF04, QWX+13, Tan14, THG17, TZH+13, YHV+15].

Exact-match [Bak78]. Examined [ORT09]. Example [Qui00, Qui02]. Examples [Bra94, BC94, KK08, BGHZ15, GHS12, KSD79, SG12, SG16]. Exchange [AL08, HSL10]. EXE [CGP+08]. Execution [Han92, MZZ10].

Exercise [Wen93]. Exercises [BH07]. Exhaustive [IM13, KJS17]. Exit
[MOG98]. Expanding [Ham88, VHC88]. Expansion [CF85, Gue90].
Expect [Fri97b]. Expected [KU99, CL90]. experiment [GHS82].
Experimental [ACR01, GIMV03, HBRV10, Lec95, JLFL14]. Experiments
[Lec98]. expert [WS894]. experts [B’+07]. Explicit [For02, CFK07].
Exploiting [Kul11, MKF91, KKM+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, GR999, Go93, 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, WM95, YP12, YQW+16, vNG01, BAC12, BvdM17, BFC08, 
BFG09, BFS04, BH07, COZ09, CJBW13, Chi17, CLT07, CGPS13, Cox10b, 
DF00, FDG+11, Fos89, Goo05, Han11, Hos06, HVP00, HP01, HP03, HVP05, 
KS08, Kar82, Ker07, Lee82, Lei80, Lif03, MMS14, ORT08, ORT09, PCS99, 
RTO15, SJ13, SCF+17, Spe85, Stud, Stu07, Tho68, WL15b, WW03, WR15, 
YKGS11, YCJ98, YB13, ZH16, Zia96, ZC99, ZYX+12, dLFM07].
Expressions
[AM91, Ano68, Ano12, 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, 
CGS17, CDL95, Dav93, Dav04, DM11, FLS98, FU82, Fri02, GGM12, GN12, 
Ghi62, Gil70, Gin67, GH13, GH15, Hab04, HM98, Ham88, HW06, Han13b, 
HJ99, Hir66, HK11, HSW97, Hum99, IY02, KT06, KTV87, Keg91a, KP99b, 
KP99c, Keg92, KV15, KZ02, KST12, LS99, LS06, LZH98, LM01b, LT09, 
Lon10, Mad01, MNS10, MY60, MR99b, MPdS12, MG97, Org03, OF61, 
Pak91, PM17, Pat71, Pet02, Pre99, Ray96, Rez92, SA96, Sch99, SSSS10, 
Sou99, TV14, TB00, Uma97, VHC88, Wen93, WZU14, XK92, Yam01].
Expressive
[ZGS+15, AFI98, Ano97a, AGM05, AM95, Ant96, AOC07, 
ACM02, BCG07, BYG96, BRL13, BTG83a, BTG83b, B991a, BDFR08, 
BS86, BNSV10, BK86, Bra95, BK93c, BK93h, CGR03, CP97, CK02b, CK08, 
DL03, EZ74, FL71, FHW10, Fri97a, Fri06a, GLRÁ11, GR92, Gel10, GL03, 
GL12, GMS12, GH90, Gue90, HW97, HY90, HJ97, HJ98, Hu90, Jan85, 
JSH90, J099, K06, KGA+12, Kin91, Lar98, L000, Lei85, LWS+16, LR14, 
LM12, LM13, LM16, Lu94, Mag81, MMDdJ11, Mor02, MZZ10, MM89, 
Nic03, PC02, PTT+03, Pra97, Rob79, Rom14, Ryt89, San15, SMS15, Sha88, 
SY72, SH55, SM04, Stud, SMT+86, XJT+04, YH91, YH92, tC09, Hum97].
Expressive [BLL12, HS08, MFRW09]. Extend [Cal00, dLFM07].
Extended
[Ano68, BK93a, CTF+98, Go902, 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].

F [Ano97a]. FA [CKW09]. faces [KSWC93]. Factor [ACR01, YQW+16, BH96, HM00]. factored [Gue90]. factoring [DRSS96]. Factorization [KKP16]. FAdo [MR05]. fairness [MMDdJ11]. Fail [KO94]. Faster [ASM17, ALP04, AKT06, BYN96, BYN99, CH02, DGM90, DGM94, Fre02, GZ94, HN02, Ind98, NKT+01, SB09]. Fastest [Col94b]. Fall-in [KO94]. Fall-in [KOI94]. False [Mut97]. Fast [ADR03, ADR06, BYP92, BYR93, BYG96, BYN98, BC13b, BS97, BFC08, BM77, Bre95, BL16, BFK+03, Bun95, CLP98, CR95a, Chn95, Cob94, CP10, Cox97, CCG+99, FL12a, Fen01a, FNU02, Gal76b, GS80, Gia93, Gil85, HAR10, HSK1, KKSL+05, KMPS+10, KMP77b, KMP94, KMP77a, KVX12, KNMH00, KRML09, LV89, Lec07, LT16, LCL06, Man94, Man97, MUHT96, MPN+14, Mon17, Mye98, NR98, NBY99a, NR99a, NR00, NR01, Neb06, Ott94, OM88, PPA10, Quo92, Sen00, ST96a, SNZBY00, Sun90, Tar81a, Vis91, WM92b, WM92a, YKG93, ZS17, Zha17, AK08, AG84, CDC96, CNPS15, CCG+93, Coo89, Der95, DC94, FDG+11, I186, KTP10, LHCK04, Mye99, NBY99c, Nav01b, PS90, RM06, RW10, SW90, Tak93, TLL09, Vis90, WL15b]. Faster [ASM17, ALP04, AKT06, BYN96, BYN99, CH02, DGM90, DGM94, Fre02, GZ94, HN02, Ind98, NKT+01, SB09]. Fastest [Col94b]. fault [BKLE18, BG91a]. fault-tolerant [BG91a]. 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 [MS97]. field [WSW16]. fields [CRV06]. Fifth [ACM06, ACM93b, AOV+99]. Fighting [ZYG+16]. File [IK83, Man94, Man97, All82, KCK93]. Files [BH85, BBH+87, Man86, Pol01, TMK+02, ZMS93, CEMW91, TM05b, TM05a]. Filter [CCH09, FU98, KRML00, CMS08, ZC89]. Filtering [KVX12, KRML09]. Filters [WZJH12, ZS17, Hos06, MA12]. Filtration [PW95, ST96b, LLL13]. Finding [ALLT11, Ben94, Hig86, Iba97, KS11a, KA91, PRU11, VB98, Z959, GHST17, LM17, Lee82]. Finite [Ant95, Bow87, CLOZ04, CM98, FG89, Ghi62, Gol93, GH13, GH15, HS97, JA17, KPR97, KPR00, KV15, LY86, Mel95, Pet92, R559, vNG01, Ant96, BDFR08, BK93c, Gaa04, HW07, Hur84, Kle56, Kod79, Lei80, MMS14, Ryt89, SLTB+06, SH85, VHL+12, VW11]. Finite-State vNG01, Gaa04, HW07, MMS14. finitely [AF98]. Finland [GU95, KS12a]. FIRE [KS08]. FIRE/J [KS08]. First [BK93d, Len93, Wai89, ACM99b, BLSS03, BD98, BAC06, Pie08, IEE94a]. First-class [Wai89, BAC06, Pie08]. first-order [BLSS03]. Fixed [BYCMW94, CF85, KF91, ABH+14, GS18a]. Fixed-Queries [BYCMW94]. Fixed-Size [CF85]. FL [CVP86]. FlashRelate [BGHZ15]. Flexible [NR02, ME97, MM07, NR00, Nav01b, SNZBY00, Lat02]. Florida [IEE88, IEE97]. Flow [FO76, HEWK03]. Fluorescent [HIT*08]. FLUX [Che08]. Focusing [Kri09, Zei08]. Font [Wol86]. force [GHK14]. Forecast [CDM11]. Forecasting [SF01]. foreign [FF08]. Forest [VRD01]. Foreword
Higher-Dimensional [KU99]. Higher-Order [HW12, SdM01, Chl08, NRO12, OR11, Pie08, Zie08].


Human [KSWC93]. Human [KSWC93]. Hy [Lia84]. Hyphenation [Lia84]. Hybrid [CLP95, LZHZ98, SF01, SW09, VB12, G015, LLL13]. HydroJ [LLC03]. hydrogen [SM04]. Hypercube [Les94]. Hypermedia [LZ96]. Hypertext [ALL97, ALL00, Nav98, PK95, Nav00, SD91].


Images [GR96, KPR97, KPR00, KS06, How96, KS05, YCJ08]. 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, Aoe89, 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, LJH+17, Nav98, Nav00, Pol13, Tan14, BC95, Oph89]. improvement [Cha87]. Improvements [CK92]. Improving [AY84, Bir77b, DHPT10, Gal79, Hyy08, NBY01, YQW+16]. In-degree [LSV08]. In-place [HTX17]. in-vehicle [BKLE18]. inclusion [CGPS13]. Inclusive [MIII17]. Incomplete [NCK14, Ritxx]. incorporate [SK96]. Increased [HFN05]. Increasing [HR00]. Incremental [FWW13b, HK922, 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, KRR17, CHLS07]. Indexing [GL86, GV05, KKL01, LMRT14, LM01b, NBY99b, SWY75, GV00, HA102, SJ13]. Indianapolis [DBG93]. indirect [DSv94]. inductive [CL09]. Inference
Infinite [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, MSP17, SD91, Sno01, Kit94, KLR+08, Lus94, SJS14, SPS96]. Informative [IEE01b].
inheritance [Mor02]. Inner [BF97]. Inputs [CGP+08]. Inspection [LLLO08, VWR11, YP13, ARS16, BAC12, NYuR15]. Inspired [Gro91a]. Information [FKRV15, IEE01a, IEE01d, IEE01c, IEE01b, LZ96, MKF91, MSP17, SD91, Sno01, Kit94, KLR+08, Lus94, SJS14, SPS96]. Informative [IEE01b].
inheritance [Mor02]. Inner [BF97]. Inputs [CGP+08]. Inspection [LLLO08, VWR11, YP13, ARS16, BAC12, NYuR15]. Inspired [Gro91a]. Information [FKRV15, IEE01a, IEE01d, IEE01c, IEE01b, LZ96, MKF91, MSP17, SD91, Sno01, Kit94, KLR+08, Lus94, SJS14, SPS96]. Informative [IEE01b].
inheritance [Mor02]. Inner [BF97]. Inputs [CGP+08]. Inspection [LLLO08, VWR11, YP13, ARS16, BAC12, NYuR15]. Inspired [Gro91a]. Information [FKRV15, IEE01a, IEE01d, IEE01c, IEE01b, LZ96, MKF91, MSP17, SD91, Sno01, Kit94, KLR+08, Lus94, SJS14, SPS96]. Informative [IEE01b].
K-M-P [RUG97]. Karp [CR91, GGY90a, GGY90b].
Karp-Miller-Rosenberg [CR91]. Karp-Rabin [GBY90a, GBY90b].
Keeper [Wei84]. Kentucky [ACM89]. Kepler [TLS16]. Kernel [WKR09].
Keeper [Wei84]. Kentucky [ACM89]. Kepler [TLS16]. Kernel [WKR09].
Kiev [Bro93]. Kinematics [PS93a]. Kleene [Lee82]. Kleenex [GHR16].
Known [KCK93]. Knuth [PV91, Bar81, DMY09, ZMSD93].
Korea [ACP05].
Laguna [HM96]. Lambda [Dow91]. Lambda-calculi [Dow91].
Languages [ACM92a, ACM93a, ACM94a, ACM95a, AAB17, BLLW12, CM58, HWW06, Hud89, KT06, KP99c, KLH16, Kor83, KST12, ND02, SA96, Sch13, Wag74, ACM87, AGM05, AOMC07, BRL13, BLS03, BKW92a, BKW92b, Coh90, Dit78, FhDAF09, HWW07, HWJ03, HSJ04, HW90, Kes91, McI04, MZZ10, Mye95, PP85, Russo88, Sch88, Sml91, dLFM07, BGNP94].
Large [AAC+01, AOV+09, BH85, B+02, LP13, VB98, WHZ+12, ZMSD93, AB89, BC13a, CD96, HI02, LYWL08, Owo93, RW10, YHV+15, Z95, ZC09, ZC12]. Large-Scale [LP13, WHZ+12, LYWL08]. Larger [GZ94].
Left-to-Right [NWE97, Ned98, Tak96b]. Legacy [Joh94b]. Leif [SC88].
Lexical [HKR92, Yan95, ISHY88]. Lexico [KKSL01]. Lexico-Syntactic [KKSL01]. Lexicographically [Boo80]. Lexicons [ZMSD93, Z95]. Library [AK09b, CL95, EU98, Ano01, Cox10b, PSK17]. Library-defined...
[PSK17]. life [CM90]. lightweight [BFNP10, SNM07]. Like
[GLW15, Hol84, HK11, BTG83a, BTG83b, Mis89, YH91]. Lille [KU09].
Limitation [Kü10]. Limited [HAR10]. Line
[FG98, GG97, Lut02, Sno01, Tak86, Blh08, CLP95, CT96, FG95, Fre06,
Gal75, Joh95, KNT11, NR02, NEL17, Rot91, TIT83]. Linear
[BJM79, Brz65, Cha94, Cha02b, CGS17, CH03, CR95b, CGPR95, GS81a,
LK90, LO94, Pat71, PRU11, RPE81, SS5S10, 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]. liquid [VLP17]. 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, Sni91, TPT13, YIAS89]. Logical
[CEW58, Wei84, PP85]. logics [LH03, Pe87, tC09]. London [MZ07]. Long
[CLP98, Kha16, ML96a]. Longest [FGKU15, KR92, RT17, BBHK14, Gra15].
Look [Yan95, GP996]. Look-Ahead [Yan95]. lookahead [BAC12]. Loops
[BF97, FT95, KK95, BK86, RP95]. Lossless [How96, Cha93b]. Lossy
[LS94, RT17, How96]. Louis [IEE90]. Louisiana [ACM91, ACM97b].
Louisville [ACM89]. low [LH13]. Lower
[BG92, CHPZ95, GG91, GKS6, AGW13, BG91b, CJPSS13, Lif03, LP08, SV87].
LZgrep [NT05]. LZSS [LD10]. LZW
[GR99, Gaw12, Gaw13, KTS+98, KTS99, TM04, TM05b, TM05a].
LZW-Compressed [Gaw12, GR99].

M [RUG97, Ram94]. Machine
[CG87, Cox09, AG84, Nak14, Ram94, WHZ+17]. Machinery [DT87].
Machines [AYS84, Bow87, BP63, JA17, Moo64, OF61, YD95, Aoe89,
GOMSVGP08, KAT07, MMS14, Yod91]. Macsyma [JM85]. Madison
[FMA02]. maintaining [GO12]. Maintenance [MG94]. make
[JT94, Mei15]. makematch [Kas08]. Mäkinen [Gro91a]. Making
[ABBH+16, ATD07]. Malay [BSY00]. male [KT90]. Malicious
[HL10, HT14]. Manacher [Akl78]. Management
[DT87, FMA02, SW94, Sto92]. manga [QPWH08]. Manipulate [Ghi62].
Manipulating [VMML15]. Manipulation
[Ng79, Wea94, GHS12, GS06, Mal93, MR05, RH81]. Manual
[Mu 95, Mu95, Mun95, Sk98]. Many [JA17, TLC15, Wal88, MAC14].
Many-Core [TLC15, MAC14]. Many-Sorted [Wal88]. Many/Multi
Many/Multi-core [JA17]. Mapping [CFM17]. maps [BCWG09].


Match-Bounds [GHW05]. Matcher [HH83, Coo86, Ker07]. Matches [Dav73, KF91, Mut97, MOG98, PRU11, GHST17, Mha05, Ukk92, ZD95].

Matching [AOK02, Abr87, ABM08, AC75, AGT89, Aku94, AR00, ACR01, ABF94a, AAL97b, ALL97, ALLL98a, ALL00, AAL+00, ALR08, AP10, Ano92b, Ano96, Ano17, AYS84, iA94, AT02, ADLM96, AW89, Ash85, AJSS92, ACD01, BST+03, BYFP92, BYCMW94, BYN96, BY96, BYN97, BYN98, BYN99, BEM+12, BCF02, Bee81, BH02, BH85, BKLP97, BL94, BM00, BBL93, Bow87, BG92, Bre93, Bre94a, BCT94, BG95, BCT98, BGG12, BG14, BTC06, BL16, BK93d, Bun95, BZ98, BG01, BCF12, BCC+13, CCFG12, CF06, CDF17, CDM11, CK02a, CLS+10, CL92, CM94, CL94, CCH09, CLP98, Cha02b, CN02, CTF+98, CZCO09, CHL14, CJBW16, CK92, CDEK95, CG94a, CLP95, CM08, CL95, Chu95, CW84, CHZ06, CIPS12, Cob94, Col94a, CHPZ95, CH97a, CH02, CH03, CHTL14, Col94b, CG79a, CG79b, Cox07].

Matching [Cox09, Cox10a, Cox12, 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, GPP95a, GI97, GP01, GP03, GIM03, Gaw12, Gaw13, GP93, GM02, Gia93, GG95, GG97, GM11, Gi85, GZ94, Gon02, GK86, Gr87, Gri83, CL01, Gro92, GL86, GV05, GMN12, HD80, Han13a, Har02, Har97, HAR10, HL10, HT14, Haz01, Hea71, HEWK03, Hei01, HL97, HH93a, HT17, HO82, HST01, How97, Hui92, HW12, HN02].

Matching [HN05, IS94, IMP01, IMR08, IST05, IS86, IK83, JGZL12, JSC83, JTU96, KPR97, KPR00, KU99, KS12a, KR81, KR87, KRS95, KRS97, KO83, KP93, Kes79, Kha16, KTSA99, KMT+01, Kid09, KST94, KKS01, KKK11, KSS06, KS11b, KS12b, KM92, KM95a, KM95b, KMP97, KLH16, KRR17, KOR83, KK02, KR97, KU99, KNS12, Kiül0, KVX12, KNNM00, KC99, Lab12, LS98, LV94, Lav91, LP13, Le 91, LM01a, Lec95, Lec98, LKL02, Lee09, LT03, Les95, Les94, LV06, LY86, LTL04, LLLL08, LA12, LLLC13, LHH+17, LLC17, LP11, Liu86, Liu88, LM02, LT16, LCL06, LLW+15, LS94, Lu702, MZ07, Maa06, MS88, MKF91, MU02, MW92a, MW92b, MGW14, MHT09, MUHT96, Me85b, MPN+14, Me95, Mey85, MM02, MIH17, Moh97, MS01, Mon17, ML96a, ML96b, MU 95, MT95, Mun70, MR92].

Matching [Mut97, Mut00, Mye92, Mye98, Nao91, NR98, Nav98, NBY99a, NR99b,
NBY99b, NBY01, Nav04b, NWE97, Ned98, NdMM02b, ND02, NRS18, 
NCKL14, NEL17, OR12, OP16, Ott94, OM88, PDL98, PAMP12, PS10, PK95, 
Par96, PV91, PPA10, PW95, Phi94, Pol13, PP09, Pou93, PK85, PS93b, RR90, 
RR92, Rao95, RM88, RRT02b, RRS98, Ric79, RKH02, RPE81, RT17, Sae96, 
SV94, SMD04, STK10, SCFC94, SN92, Sca11, Sch95, SRR92, SRR95, Sha93, 
STSA99, SKF+00, Shi00, Shi04, Shi92, SSSS10, Sim83, Sim94, SF01, SmD01, 
Sli78, Sli83, SW09, Som82, Spi99b, Sto96, ST95, ST96b, ST04, Tak86, Tak94, 
THK+02, TS05, TWZ94, TU93, TP97, TMV+01, TK07, TLC15, TVMC12, 
UW93, Ukk10, VSM87, VB12, WVR11, Via02, VG01, VRO1. Matching 
[Vis91, Vis99, VS01, WPKL13, WSW16, Wat96, WKA94, WD99, WBA83, 
Wri94, WM92b, WMM95, Xi03, YP12, YP13, YQW+16, YK11, YJ84, 
YDW18, Yun12, ZZ12, ZS17, ZS13, Zha17, ZLN11, ZT89, Zue96, de 82, 
vani14, TL12, AMB+02, ADR03, AD06, AK08, AK09a, Akl78, Aku95, ASM17, 
Alb89, ACF05, ASC99, ALV92, AF92, AFM94, ABF94b, AAL+97a, ALL+98b, 
AL01, ALP04, ABC+04, AKT06, ALLS07, AAK+09, AEK+11, ABH+14, 
Ano97b, Ano01, Ace89, AG84, Apo92, Apo93, AH97, AG97, ACP05, ADLM01, 
AGS96, AD11, AGW13, AG06, BFKL13, BKLE18, BYR93, BYP96, BYCC03, 
BSY00, Bak78, Bak93, BDD90, BCD98, BEM+13, BSTU08, BGFK15, BR09, 
BA15, BA16, BKB+14, BCD14, BLLP90, BLPL92, BFC08, BFG09, 
BGVW12, Bir77a, BGJ89, BO13, BBL98, Bra90, Bra95, BBK12, BBHK14] . 
matching [BG90, BG91b, BC96, BCT93, BRE95, BRE96, BGM13, BKS02, 
BC93, BEL04, CGK08, CPT92, CCF13, CS08, CPW88, CF88, CK04, 
CGM10, CL90, Cha93b, Cha93a, Cha87, Cha02c, CRV06, CJ93, CR95a, 
CLS95, CDDM05, CW13, CJBW13, CW18, CFKT17, CNPS15, CNS18, 
CH04, CS11, CR87, CWZ10, CJS13, CPD14, CP10, CH92, CCG+93, 
CH97b, CGG90, CT96, CD89, Coo89, CM07, Cro92b, CG93, CG94b, CR94, 
CL96, CCR99, CCG+99, CKC07, Dai09, DR06, DS04, D093, Deo06, Der95, 
Dij76, Dijxx, Dit78, Dow91, Dow93, DC94, DGM90, DNR06, DHT10, 
FLM+10, FW13a, FW13b, FC98, FT95, FL13, Fat15, FHV18, Fen01a, 
Fen01b, FG95, FMdB99, FG+11, FBMA05, Fre03, FNO4, FM06, Fri97b, 
Ga04, Gal75, Gal76a, G81a, GS81b, Gal84, GG86] . matching 
[GG87, Ga92, GP92, GU95, GRR59b, GR99, GU16, GS00, GGF13, GG13, 
GMC02, GW92, GBY90a, GBY90b, GPW96, GF08, GFG11, GN06, GL89, 
GV00, GS06, HWW07, HY92, HLS07, HF05, H87, HR03, HH93b, HM96, 
HM00, HLS+11, HBRV10, HP01, HP03, HK77, How96, HLo90, HHLS06, 
HF05, Hy08, IT13, IS96, Ier09, Ind07, Ind98, IS90, Iik08, IM13, IS86, 
ISH88, JM93, JL11, Joh95, Joh94a, JU91, KTP10, KSVJ15, Kas08, 
K00, Kse91, KTS+98, KMS+03, KST92, Kim99, Kjw07, KEF+14, KNT11, 
KS01, KS05, KMP94, KMP77a, KS96, Kos89, Kos94, Kri09, KKR+13, 
KST16, KGP+05, KT90, LMM17, LV86a, LV86b, LV89, Lar99, Lec07, LLC03, 
LH13, LH03, LS08, Liu81, LHCK04, LBK08, LO94, LT97, LLL13, 
MCF+11, MK90] . matching [MN05, Man76, MBY91, MMZ10, Mar07, 
ME97, MAI+16, MP05, MCI85a, MM03, MM07, Mis03, MHN+01, MR09a, 
MA12, Mun95, Mus03, Mus05, MM89, Mye95, Mye99, NYR15, Nak14,
Nar91, NBY99c, NR00, Nav00, NKT+01, Nav01a, Nav01b, NR02, NF04, NT05, NC06, Neb06, NWE99, NdMM02a, NC92, NR17, NK07, Nii90, OK94, dSOMY15, OR11, Oph89, OW03, PS89, PLL10, PPTT15, Par98, PS90, PC99, PP94, Per94, Pet07, PMS11, PPZ08, PDC94, QZC17, Quo92, RM06, RTT02a, RUG97, RTO15, Rus88, Sad93, SVS97, STK06, Sal12, SW90, Sch81, Sch91a, Sch91b, Sch88, SZ05, Sen00, SS94, SGYM00, ST96a, SN94, Shi97, Sil77, SR16, Sni91, SDS14, SBYCY93, Spe85, Sqi99a, Sqi93, SA77, Sto02, SWW+12, SV87, SNM07, Tak96b, Tak93, TBS06]. matching[14, TM04, TM05b, TM05a, THG17, Th93, TTT83, TLS16, TLLL07, TLLL09, TCC91, Ukk92, Ukk93, Val09, Van06, VLP17, VW11, Via04, Vin77a, Vin77b, Vis90, Vol12, Wad87, WZS95, WGMH13, WLF14, WC14, WL15b, WZ06, WW03, Wat03, Wea94, XMC11, YKGS11, Yao79, YTO03, YB13, ZMAB03, ZH10, ZH16, ZA17, ZXY+12, dB93, dRL05, GH82, JD89, JN10].

Names \[VB12\]. Nancy \[Bun94\]. nanolithography \[SS93b\]. narrowing \[AEH94\]. Nashville \[ACM90a\]. Natural \[Fre06, GR96, vNG01\].

Natural-Language \[GR96\]. Navarro \[Hyy08\]. Navigational \[LRSV18\]. 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 \[CEMW91\]. Neighbourhoods \[NRS18\]. Nerode \[Fre06, GR96, vNG01\].

Natural \[GR96\]. Navarro \[Hyy08\]. Navigational \[LRSV18\]. 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 \[CEMW91\]. Neighbourhoods \[NRS18\]. Nerode \[Fre06, GR96, vNG01\].

Natural \[GR96\]. Navarro \[Hyy08\]. Navigational \[LRSV18\]. 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 \[CEMW91\]. Neighbourhoods \[NRS18\]. Nerode \[Fre06, GR96, vNG01\].

Natural \[GR96\]. Navarro \[Hyy08\]. Navigational \[LRSV18\]. nd \[OND98\]. nd-order \[OND98\]. near \[HFFA09\]. near-optimal \[HFFA09\].
One-dimensional [JKNS00, WC14]. One-Way [LY86, Sch91b, She59, JT93]. Online [FL12a, PS10, CJP13, 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, IU02, KU99, KR94, LMMN07, MS98, MP88, Mor83, Mut00, Nak14, NWE97, NdMM02b, RT17, SN92, BKBB+14, BG90, BKS02, CM0+08, CR94, FN04, GS81b, Gal92, GR99, GHK14, HFFA09, IKX15, IP96, KR89, KT90, MS95, Neb06, PPTT15, Ry89, ZC99]. Optimally [CCG+93]. Optimising [Chi17]. Optimization [GC01, HJ99, LT09, Sca11, Sp99b, CK02b, KW08, KGP+05, SJ13, Sp99a, VV11]. optimizations [PSK17]. Optimized [AK09b]. Optimizing [CJBW13, CJBW16, Kha16, LM01a, KS08]. Optimum [LD10]. Oracle [FPD08, GL03]. Order [GU16, HW12, KEF+14, SDm01, Wag74, BLSS03, CFFT17, CI08, CNPS15, CT96, Dow91, Gie90, Kes91, NRO12, OR11, ON99, Pie08, TPT13, Ze08]. Orderly [Wag74]. Order-preserving [GU16, KEF+14, CFFT17, CNPS15]. order-sorted [Gie90, Kes91]. Ordered [ST04, Cro92b, Gro91a, Gro91b, M¨ak89]. ordinary [Rev91]. Oregon [ACM94a, ACM90, BGPP94]. O’Reilly [Ano97a, Ano12]. Organization [IK83]. Organizing [CG87]. Orientation [TCCK90]. Oriented [GP93, KS94, GPTV93, LLC03, Mus05, TG96]. Orlando [IEE88]. Orleans [AC93]. Ornament [Pam97]. Oscillator [FYJ+17]. Oscillator-Based [FYJ+17]. OSN [ZGY+16]. Other [Ano97a, Fri97a]. outbreak [FPN09]. Outerplanar [BJM79]. Output [PM78]. Outsourced [FHV18, YDW18]. Overcoming [K¨ul10]. overlap [PSK08]. Overlapping [Ben94, BZ98, CCF13]. Overlay [LT16]. overview [PVA+92, Tur86]. Own [ZGY+16]. Oxford [Ano97b].
Parallel-Algorithms [SV94]. Parallelism [JA17, MKF91, Wri94, ASM17, CFKT17, HFN05, LV86b, NR00, RW93]. Parallelization [KP93, RP95]. Parallelizing [HN90, MIH17]. Parameter [Jok90]. Parameterized [BRL13, BDFW94, CHLT14, IS94, OP16, AFM94, Bak93, BA16, CGK08, FM06, HLS07, IS96]. Parameters [CJBW16, CJBW13]. Parametric [Chl08, HPM94]. parametricity [R´em17]. parentheses [PDC94]. parentheses-matching [PDC94]. Parenthesis [Sto96]. Paris [Cro92a]. Park [IEE89]. Parse [Kea91a, DF00]. Parser [Hol84, TB00, Gan89b, LK06, MLC08]. Parsing [AU72, AU73, Cam99, MGH97, Rus88, BvdM17, MM14, Ier99]. Part [KP15, Kul11]. Part-of-Speech [Kul11]. Partial [Ant95, Ant96, CW84, CD89, GL01, KK08, Sni91, Zve80a, Zve80b, AD03, AD06, HR03, Hor92, 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 [KJS17, MW94]. paste [AM97]. patches [TCCK90]. Path [Bac94, BLCW12, CDLV99, HJ99, LM01b, Tar81a, Tar81b, TPT13, Che96, CK2b, LM12, PC02, YCJ98, YT03]. Paths [GLS07, LM13]. Pattern [AMB+02, ABM08, AAL97b, ALL97, AAL+97a, ALL98a, ALL00, AAL+00, ALR08, AM16, Ano92b, Ano96, Ano17, AY84, IA94, AG84, AG97, AT02, ADLM96, AW89, Ash85, AS92, A986, AD11, BYN98, BCD98, BEM+12, Bee1, BKL97, BBL93, BBL98, Bow87, BTC06, BL16, BGP10, BCF12, BC93, BCC+13, CCFG12, CFM17, CS89, CD11, CM87, CK04, Cha02b, CJZD09, CK92, CDEK95, CG94a, CL95, CM08, CHZ06, CJP12, CDP14, CH03, Col94b, CG94a, CG99b, Cre92a, CR92, CR95b, CGPR95, CL96, CG+98, D’A98, DB86, DWE89, DLG12, DN77, Dit78, DCM15, DGM94, Dwe00, EIV04, EF13, Far92, FL08, FR00, For02, FNU02, Fu95, Fu96, Fu97, GHL15, GPP04, GC01, GRS99, GI97, GP01, GP03, GIMV03, Gaw12, Gaw13, GP93, GM02]. Pattern [Gia93, GG95, GG97, GM11, GMC02, Gil85, GW92, GGN06, Gi97, Gi98, GL01, Gro92, GL86, Han90, HAR10, HH83, HL10, HT14, Haz01, Hea71, HEWK03, Hei01, HL97, HO82, HST01, How97, HW12, CV86, IM08, IST05, JSC83, KPR97, KPR00, KU99, KS12a, KR81, KR87, KR94, KR95, KR09, KN00, KP93, Kes91, Kes79, KTS99, KMT+01, Kid09, KKS10, KKK11, KKS01, KS06, KM92, KM95a, KM95b, KMP77b, KRR17, Kor83, Kra08, KO92, KO99, KNS12, Kül10, KVX12, KNMH00.
KC99, Lab12, LV94, Lav91, LP13, LM01a, LKL02, LSTW$^+$17, LT03, Les95, LV06, LTL04, LA12, LLCC13, LJH$^+$17, LP11, Liu86, Liu88, LM02, Lut02, MZ07, MS98, MKF91, MU02, MW92a, MW92b, MGW14, MHT96, MCIS5a, MCI5b, MS01, Mon17, Mu 95, MuT95]. \textbf{Pattern} [Mu00, Mye92, Nao91, Nar91, Nav98, NBYY99a, NR99b, NBY01, Nav04b, NWE97, NED98, NDMM02b, ND02, Neu10, NRS18, NCKL14, OR12, OP16, OW03, Ote04, PDL98, PS10, Par96, PV91, Pet92, PW95, PPZ08, PP09, Pou93, PK85, PS93b, RR90, RR92, Rao95, RM88, RS98, Ric79, SMD04, SCFC94, SN92, Sch95, SRR92, SRR95, Sel84, Sen96, Sha93, SN94, STSA99, SKF$^+$00, Shi00, Shi04, SSSS10, Sim83, SF01, Sm01, SW09, Som82, Sp99b, Tak86, Tak94, TMктив10, TK07, Ukk10, VSM87, VWR11, Via92, VG01, VRD01, Vis91, Vis99, Vol12, VSN01, VB09, WCM$^+$94b, WZS95, WSW16, Wat96, WKA94, WD09, WBA83, WM92b, Xi03, YP13, YK11, YDV18, ZZ12, ZH10, Zha17, ZLN11, ZT89, Zue96, TLL12, ADOR03, ADR06, AK08, AK09a, Akl78]. \textbf{pattern} [Alb89, ASG99, AYCLS02, ALV92, ALLL98b, AL01, ABC$^+$04, AKT06, ALLS07, ABH$^+$14, Ano01, Aoe89, Apo92, Apo93, AH97, ACP05, AP90, ADLM01, AG06, BKLE18, BYR93, BYCC03, Bak93, BDB90, BEM$^+$13, BA15, BA16, BCD14, Bir77a, BGJ89, BD+13, Bra95, BBHK14, BS02, CG08, CPT92, CPW88, CF88, CGM10, Cha93b, Cha93a, Cha78, Cha02c, CRV06, CR95a, CL95, CFKT17, CNPS15, CNS18, CS11, CWZ10, CJPS13, CG$^+$93, CH97b, CT96, CD89, CGR93, CG94b, CR94, CG99+99, CKC07, DS04, Di76, Dijxx, Dow91, Dow93, DGM90, FL$^+$10, FFW13a, FFW13b, FC98, FHV18, Fen01b, FBMA05, Fri97b, Gaá04, GP92, GU95, GR99, GU16, GS00, GFG13, GG13, GPN96, GS06, HW97, HC87, HM96, HBRV10, HP01, HP03, HK77, How96, HLNO9, IIT13, Iba97, Ier09]. \textbf{pattern} [Ind97, IM13, ISHY88, JM93, JP11, Jon07, KTP10, KSVJ15, KS07, Kas08, KTS$^+$98, KMS$^+$03, KCK93, Kim99, KS11a, Kin89, KS05, KMP94, KMP77a, Kos89, Kos94, Kri09, KKR$^+$13, KGP$^+$05, LLC03, LH13, LH03, LS10, LP08, Liu81, LBK08, LO94, MCF$^+$11, MK90, Man76, MMZ10, Mar07, MAV$^+$16, MP05, MHH$^+$1, MR09a, MR13, MA12, Mun95, NYuR15, Nav00, Nav01b, NR02, NWE99, NDMM02a, NR17, NK07, Nil90, OK94, OR11, Oph89, OSSK16, Owo93, PPTT15, Par98, PS90, PC99, Per94, PMS11, Quo92, RM06, Rus88, Sch81, Sch91a, Sch91b, Sch88, Sen00, SGYM00, Sit77, Smi91, SDS14, SHCY93, Spe85, Sp99a, Srl93, Sto02, SNM97, TZYH14, TM04, TM09b, Th93, TIT83, TLS16, Val90, Van06, VW11, Via04, Vin77a, Vin77b, Vis90, Wad87, WCM$^+$94a, WGMH13]. \textbf{pattern} [WC14, WL15b, WZ96, WW03, Wat03, Wea94, Yao97, YC0K08, ZC89, ZMAB03, ZA17, ZC09, ZCÖ12, dRL95, JD89, YIAS89, Ano97b]. \textbf{Pattern-based} [Far92, KS07]. \textbf{Pattern-Directed} [Kor83]. \textbf{Pattern-Match} [Pet92]. \textbf{Pattern-Matching} [FR00, KPR97, KPR00, KR81, KR87, KR95, KR97, KP93, KVX12, Lut02, MUHT96, NWE97, NED98, Ott94, Pou93, SCFC94, Sch95, SSSS10, SW09, WM92b, CL96, GMC02, KN00, CF88, Dijxx, Fri97b, Gaå04, Ier09, KSVJ15, LH13, Nav01b, NWE99, NDMM02a, OR11, Per94, Sch88, Wea94].
Practicality [TT82].

Practice [CCFG12, CJBW16, DGBH93, KP99a, CJBW13, DRSS96, WL15b, Lut02, KKP92]. PRAM [PDC94, dB93]. Pratt [PV91, Bar81, DS04, Ukk10].

Precessions [SS93a]. predicate [BG91a, MFRW09]. predicate/transition [BG91a]. predicates [Gan89b, TP07a, TP07b]. prediction [PV91, Bar81, DS04, Ukk10].

Prefix-Free [Han13a, HWW07]. Prefix-Matching [BCT98, BCT93, Bre95]. Preliminary [GS81b, LS94, WCM94b, Kos94, WCM94a]. Preprocessing [Nao91, CCG93, Ryt80, Sto02, Tak96b]. Presence [HT14]. presented [ACM69, ACM74, ACM76, ACM81, ACM92a, ACM92c, ACM93a, ACM94a, ACM95a, NEH90]. preserving [CFKT17, CNPS15, GU16, KEF14, QPWH08]. Press [Ano97b].


private [WR15]. privatization [RP95]. Probabilistic [Lav91, LSV08, MIKR12, Sch91a, Sch91b, TMV01]. Probabilities [PM78, Neh06]. Probability [SCFC94]. Problem [BCT94, BCT98, CF06, CK02a, Hui92, KO83, KS11b, KS12b, KZ02, Pet02, PW93, Yan95, Ak93, B905, BSTU08, BC06, BCT93, CNS18, CM07, Dij76, Dijxx, FL13, Goo05, Gra15, Gro91a, GZ10, Kar82, Mao90, Mak98, Man76, RTO15, Rob97, Sch81, SZ05, Tak96a, Tan14, Tho81, Y03, YH95, GLS92, BLPL92]. problem-based [BC06]. problem-solution [B905, Goo05].

problem-solving [Tak96a]. Problems [CK92, Gon02, Hea71, KPR97, KPR00, Loh10, MNS10, OP16, RS59, SV94, Tar81, Tar81b, Via02, FMd99, Gro91b, GKH14, HY92, HTX17, Ind98, Kra08, Mid96, Nic03, Sr93, SH59, 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, AC98, ACM98, ABB93, B902, Bro93, EIE92, EIE93, EIE94a, IE98, MG94, SC93, SC99, SC01, SC02, SC03, SM10, WN90, Win78, ACM93, ACM84, ACM86, ACM90b, ACM91, ACM92c, ACM92d, ACM93b, ACM94d, ACM95c, ACM97b, ACM97c, ACM99a, ACM99b, ACM00, ACM06, ACM07, AL01, AP10, AG93a, AG93c, AG93d, AG93b, Ano87, AAC01, AT02, AOV99, BYCC03, Bao93, Cha86, DT87, FC98, FL08, FJ92, FMA02, GS00, GM11, Hwa85, CV86, EIE88, EIE90, EIE94b, IE95b, IE90, KS12a, KU09, LV06, MZ07, PC99, SM04, SW94, Sto92, SC98, USE92, Apo92, Apo93, AH97, ACP05, BGNP94, Bun94, CG94b, GU95, HM96]. Proceedings. [BGG94]. Process [Gro91a, VV04]. Processes [SBF80, AB89].
Processing [CCL87, LLLC17, TMK+02, VCS+92, vNG01, CL09, CK08, ECSS88, Gre88, KSH+95, Kit94, QWX+13]. Processor
[HKL+14, LHC04, ME97, MM07, TLLL07, WK09, CPW88, Sca11].
processor-based [LII07]. Processors
[AWS16, VCS+12, YP13, TLLL09, YIAS89]. Processor
[HKL+14, LHCK04, ME97, MM07, TLLL07, WKR09, CPW88, Sca11].
processor-based [LII07]. Processors
[AWS16, VCS+12, YP13, TLLL09, YIAS89]. Processor
[HKL+14, LHCK04, ME97, MM07, TLLL07, WKR09, CPW88, Sca11].
processor-based [LII07]. Processors
[AWS16, VCS+12, YP13, TLLL09, YIAS89]. Processor
[HKL+14, LHCK04, ME97, MM07, TLLL07, WKR09, CPW88, Sca11].
processor-based [LII07]. Processors
[AWS16, VCS+12, YP13, TLLL09, YIAS89]. Processor
[HKL+14, LHCK04, ME97, MM07, TLLL07, WKR09, CPW88, Sca11].
processor-based [LII07]. Processors
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processor-based [LII07]. Processors
[AWS16, VCS+12, YP13, TLLL09, YIAS89]. Processor
[HKL+14, LHCK04, ME97, MM07, TLLL07, WKR09, CPW88, Sca11].
processor-based [LII07]. Processors
[AWS16, VCS+12, YP13, TLLL09, YIAS89]. Processor
[HKL+14, LHCK04, ME97, MM07, TLLL07, WKR09, CPW88, Sca11].
processor-based [LII07]. Processors
[AWS16, VCS+12, YP13, TLLL09, YIAS89]. Processor
[HKL+14, LHCK04, ME97, MM07, TLLL07, WKR09, CPW88, Sca11].
[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, LRSV18]. Re

[MCP17, ORT09, CGR02, CGR03]. re-examined [ORT09]. RE-Tree [CGR02, CGR03]. Re-Vectorization [MCP17]. re2 [Cox10b]. reachability [FWW12, GZ10]. reachability-bound [GZ10]. Reactive [HFFA09].


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, Sel84, SKS96, ZC89]. recognizable [HY92]. Recognized [RJK79]. recognizers [Fos89].

Recognizing [Ray96]. Recalibration [BM08]. recipes [B+05, Goo05].

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].


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, Brz64a, Brz65, CDLV99, Cam99, CSV03, CZ01, Cha01, Cha02a, CLOZ04, COZ09, CJM12, CDJM15, CGR02, CJBW16, CHP92, CC97, CKW90, CGS17, CDL95, Cox07, Cox09, Cox10a, Cox12, Dav99, Dav03, Dav04, DM11, EU98, FLS98, FU82, Fri02, GJ16, GRS99, GGM12, GN12, Gl16, Gin67, Gin93, Goo05, GL12, GH13, GH15, Hab04, HM98, Ham88, HWW06, Han13a, Han13b, HWJ03, HN11, HJ99, Hir96, Hol84, HK11, Hos06, HVP00, HP01, HP03, HVP05, HN00, HSW97, Hum97, Hum99, IY02, KT06, KTU87, Kea91a, KP99b, KP99c, Kin92, KM92].

Regular [KM95a, KHL16, KN12, KV15, KZ02, KST12, LS99, LS06, Lar98, Lar10].
Lee09, LZHZ98, LM01b, LT16, LT09, Loh10, Mad01, MS98, Mag81, MNS10, MY60, MP+14, MR09b, MPdS12, MGF97, Mye92, MOG98, NR99a, NR01, Nav01c, Nav04a, NR04, Org03, OF61, ORT08, ORT09, Pak91, PM78, PPA10, Pat71, Pet02, Pra97, Pre99, Ray96, Rez92, Ric79, SA96, Scat11, Sch99, SS93a, Sou99, Spe85, SM99, Stu03, Stu07, SL17, TV14, TB00, Uma97, VCS12, VHC88, Wag74, WPK13, Wat96, Wen93, WMM95, WZU14, XK92, Yim01, YP12, YQW+16, ZGS+15, Zia96, dLFM07, vNG01, AFI98, Ano97a, AGM05, AM95, Ant96, AOMC07, ACM02, BCG07, BYG96, BAC12, BRL13, BGF97, BvdM17, BS86, BNSV10, BFC08, BFG09, BK86, Bra95, BH07, BKW92a, BK93b, BKW92b.

Regular (CGR03, CP97, CJBW13, Chi17, CK02b, CLT07, CK08, CGPS13, Cox10b, DL03, DF00, EZ74, FL71, FDG+11, FH10, Fos89, Fri97a, Fri06a, GLR0A11, GR92, Gei10, GLO3, GMS12, GH09, HW07, HW07, HY90, HSJ04, HW09, Jan85, JSH09, Jioh99, Kah06, KS08, Kar82, Ker07, KGA12, Kin91, Lan00, Lee82, Lei80, Lei85, LWS+16, Lif03, LR14, LM13, LMN16, Lus94, MMdJ11, MC04, MR05, Mor02, MZZ10, MM89, Nic03, PC02, PIT+03, Rob79, Rom14, Ryt89, SCF+17, San15, SMS15, SGYM00, Sha88, SY72, SH85, SM04, SMT+86, Vou06, WL15b, WW03, Wat03, WR15, XJT+04, YKGS11, YH91, YH92, YB13, ZHZ16, ZC99, ZYX+12, tC09, Tho68, Ano12]...

Regular-like [BTC06, Han13a, YQW+16, ORT08, ORT09, SCF+17, WR15], Regular-like [BTG83a, BTG83b].

Reinforcement [KK02], Related [CHZ06, AS85, Gro91b, Sri93]. Relation [KN12, MR92, Pre99, LSV08], relational [BGHZ15, HC87, KWLL08, MZZ10, DWE89], relations [BLSS03, B013, MAI+16], Relationship [KK92, GR92], relaxation [SHC03]. Reliability [FO76], Reliable [KKOS91, CDC96]. Remark [Tho81, Pet95, TCC91]. Remarks [CR87].

Renyi [AW89], Repairing [IWS+16], repeated [LO94, Thi93], repetitions [Cro86], Repetitive [CDM11], replacement [NAR08], Replacing [DCM15], replication [HFA09], Report [GS81b, HJW+92]. Reporting [MOG98], representable [Dow93], Representation [NR01], representations [YB13, ZC99, ZZ16]. Required [MW92b], requirement [LH13, ZKY07], requires [Rob79], Research [CPW88, IEE98], RESEED [SCF+17]. Residue [BM00]. Resilient [ABBH+16], resolution [OW03], resource [FK96], resource-bounded [FK96], resourceful [BF+08].

Resources [HAR10, MP09], Restricted [Kin92], Results [Lec95, WCM+94b, FL13, WCM+94a]. Retargetable [GHF82, BBD90, Gan89a, Fra83, GHF83a, GHF83b, WNL+83], RETE [Alb89, MK90]. Retrieval [BBH+87, GR96, LZ96, MKF91, Mor83, Zve80a, Zve80b, All82, BS00, PDM01, SD91, ZKA12]. Reusability [PV91], Reuse [HL97, Rém17]. Review [Ano97a, Ano97b, Ano12, 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, PSK17].
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
[ABH14, BA15, MP05, SBHM94, Shi00, Shi04]. RNAi [QLY07].
robot [P93a]. Robust [Le 91, WZJH12, YP13, BFN+09, HLN09]. Roma
[ACC+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, RT17, Gre88, Oph89]. rule-based [Gre88]. Rules
[GI62, 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
[GPR95a, Lut02, Vis91, WSW16, CCR93, Vis90, ZHWW12]. San
[ACM92e, ACM92b, ACM93b, ACM95a, ACM95b, DT87, IEE94b, KP15,
St92, 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, WV11, WL15b]. Scale
[LP13, LYLW08, TZYH14, WHZ+17]. Scaled [BEL04]. Scaling
[HW12, MS01, YDDB15, ALV92, HLN09]. Scan [MIH17, Gre88]. scanner
[Hur84, ISY88]. Scanners [HKR92]. scanning [CWZ10, HFI+08]. Scenes
[BS09, BS+07]. scheduling [LMMN07, Mid98]. schema
[IHK08, MNS07, dLFM07]. Schemas [BGNV10, MNS10, KS07]. Scheme
[Bur84, Man94, Man97, Bur82, Kod79, KRL87, LH13]. Schemes
[KK08, Pel87, QWX+13]. School [Cro92a, Ano92b]. Science
[ACM92a, F92, IE89, IE90, IE92, IE93, IE95a, IE97, IE98, IE09,
Gus07, Ker04, Win78]. Scientific [WCM+94b, WCM+94a, WZS95]. Score
[Ben94]. Scoring [KK08, OSSK16]. Scotland [AOV+99]. Scottsdale
[KL12]. Scratchpad [JT94]. screening [QPWH08]. Scrimshaw [Arn93].
Scripting [Fri97b, RB05, BFN+09, Blu08, FhDAF09, Han01, LS99]. sesh
[Sar02]. Search
[AC75, Ber00, BK93d, Cal00, EF13, FG98, GG97, KR94, Lut02, Man86,
NR99a, NR01, Pol01, SED14, SB09, Sun90, WWW+16, YDDB15, Zha07,
Search-Space [ZGS+15]. Searches [GN01, MT14, Fen01a, KS08, MW92b, SMS15, WR15]. Searching [GN01, MT14, Fen01a, KS08, MW92b, SMS15, WR15].


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, Bia08, Wes97]. shells [Qui00, Qui02]. Shift [Fre03, IMP01, KTS99, CT96, Per94]. Shift-And [KTS99]. Shift-or [Fre03, Per94]. shifting [WOQ+07]. Short [BLPL92, Han13b, KRS95, KRS97, MR09b, BGFK15, Che96]. Shorter
Shortest
shuffle
SIG-SIGMOD-SIGART
SIGACT
SIGAPP
SIGART
SIGACT-
SIGPLAN
SIGMOD
SIGMOD-SIGACT-SIGART
Signal
Signature
Signatures
Signal
Simulations
Simultaneous
Single-board
Single-machine
Singly
Singularity
Sixteenth
Sixth
Size
Small
Small-Ruleset
Smaller
Smoothed
Smoothness
SNOBOL
SNOBOL4
Snowbird
Social
Solution
Solvers
Solving
Some
Software
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Solving
\textbf{String} \cite{JLFL14, JTU96, Kha16, KKK11, KS11b, KS12b, LSW08, LP13, Le91, Lec95, Lec98, Les94, LY86, LLL08, LLLC17, LD10, Liu86, Liu88, LCL06, LLW15, LS94, Mel95, Mey85, MM02, MIH17, Moh97, ML96a, ML96b, Mun07, MR92, Mut97, Mye98, Nao91, NR98, NBY99b, NEL17, OM88, PAMP12, PK95, PP94, Pet07, Phi94, Rao94, RTT02a, RTT02b, RKK02, RPE81, Sad96, SV94, STK10, Shi92, Shi97, Sim94, Sli78, Sli83, Spib96, ST95, ST96b, ST04, TS05, TP93, TP97, TT82, TLC15, TVCM12, UW93, VMM15, Wri94, YP13, YDW18, ZS17, ZS13, ZGS\textsuperscript{+15}, de82, van14, Aku95, ASM17, ACF05, ALP04, AAK\textsuperscript{+11}, Aoe89, AEMS14, AGW13, BFKL13, BYF96, BY96, BS00, Bak78, Bar84, BR09, BBK\textsuperscript{+14}, BLPL92, BFG09, BFP\textsuperscript{+08}, BG90, BG91b, BCT93]. \textbf{string} \cite{Bre94b, Bre95, Bre96, BGM13, Bur82, BEL04, CCF13, CL90, Cha93a, CDDM05, CW13, CW18, CR87, CH92, CGG90, CD96, CM07, CGR99, Dai09, DR06, Deo06, Der95, DC94, DNR06, DHPT10, FL13, Fen01a, FG95, FMdB99, FG99, FMBA05, Fre03, FN04, FM06, Gal75, Gal76a, GS81a, GS81b, Gal84, GG86, GG87, Gal92, GPR95b, GBY90a, GBY90b, GF08, GL99, GV00, GHK14, Han93, HY92, HFS05, HR03, HH93b, HM00, HLS\textsuperscript{+11}, HK77, HHL06, HFN05, Hyh08, IP96, IMS97, Ind98, IS90, II08, JL93, Joh95, JU91, KST92, Kin99, KWL07, KNT11, KS96, KST16, LV86a, LV86b, LV89, Laur99, Lec07, Liu81, LHCK04, LT97, LLL13, Mae90, MNU05, MY91, ME97, Ma05, MM03, MS03, MS95, Mus03, Mus05, Mye99, Nak14, NBYY99c, NR00]. \textbf{string} \cite{NKT01, Nav01a, NF04, NT05, NC06, Neb06, NC92, PLL10, RUG97, Ryt80, Sad93, STK06, Sal12, SW90, SZ05, SMS15, ST96a, SG12, SR16, Spib99a, SV87, Tak96b, TBS06, THG17, TPT13, Ukk92, Ukk93, VLP17, Vin77a, Vnm77b, WL15a, WL14, XML11, Yao79, YT03, dBR93, GH82]. \textbf{String-Manipulating} \cite{VMM15}. \textbf{String-Matching} \cite{BG14, CGG+94, GS80, Gal95, Kha16, Les94, LY86, Moh97, Mut97, Sli78, Sli93, CH04, Cro92b, BR09, CCF13, CW13, CR87, CCR99, DR06, Gal75, Gal76a, GS81a, Gal92, GPR95b, HY92, HR03, JL93, KST92, LHCK04, PLL10, TBS06, Ukk92, Ukk93, dBR93]. \textbf{string-pattern} \cite{Kim99}. \textbf{string-searching} \cite{Mha05, Ryt80}. \textbf{string-similarity} \cite{BSY00}. \textbf{String-to-Dictionary} \cite{KS11b, KS12b}. \textbf{string-to-string} \cite{Mae90}. \textbf{stringdist} \cite{van14}. \textbf{Strings} \cite{Ale94, BS97, BCFL12, Cha95, Col94b, FT98, Gaw13, GNU94, GL01, HT17, ISNH94, KR95, KR97, KMP77b, LT03, Lut02, SW09, Ver92, YQW+16, Zha17, ADR03, ADRO6, BLSS03, BFK+03, BAST03, BYP92, BYN96, BYN97, BYN99, BCP02, BH02, BH85, Ber00, BLLP90, BL94, BM00, BVW12, BM77, BG92, Bre93, BCT94, BG95, BCT98, BGG12, BG14, BK93d, BZ98, Bur84, CF06, CF88, CK02a, CLS+10, CL92, Cha93b, CM94, CL94, CCHR99, CN02, CTF+98, CHL14, CH04, Chu95, CW84, Col94a, CHP95, CH97a, Ch02, CP91, Cro92b, CCG+94, CCG+97, CIK98, CIM+02, Dav73, EMIC96, FT95, FT98, FL12a, FL12b, FG98, FV16, FU98, Fre92, FT04, Fre06, Gal76b, Gal79, GS80, Gal81, GP90, GG91, GG92, Gal95, GPR95a, GHW05, GZ94, GD02, GFG11, GV05, GMMN12, HD80, HH93a, Hui92, HS91, HN05, IMP01, IK83].
BC95, CD89, CR91, EH88, ETV88, FT95, GO12, Gus97, JRV96, KGA+12, KMP94, KMP77a, KR97, LMM17, LS10, McI04, Mei15, NR02. Strong [GGM12, LS06, WD99, AW89]. Strongly [Dur94]. Structural [BGJ01, KWLL08, Shi00, Shi04, BFS00]. Structure [CGR02, Gia93, Les95, Pol13, Sli78, TMV+01, AP90, CR90, CD96, FG99, FLSS93a, FLSS93b, KWI07, MP05]. Structured [BLLW12, KM94, BHGZ15, Fla88, TMV+01, AP90, CGR03, CD96, FG99, FLSS93a, FLSS93b, KWI07, MP05]. Sublinear [CL94, FG98, CL90, CWZ10, CR99, FG95, WZ96]. Sublist [Jay92]. Suboptimal [Cha94, LS94]. Subquadratic [WMM95].

subsequence [ZKA12]. Subsequences [IF94]. Subset [Ch03, Kn92, Pag78, AB09, CH97b, HW09]. Substitution [For02, JSC83, Sch81]. substitutions [Pie08]. Substring [CIL+03, Har71, Jol94a, Kos83, Sun90, BSTU08, Gra15, HKN14, Hmx17, JKS00, Maa06, MA1+16, Sto02]. substring-preprocessing [Sto02]. Substrings [Co94, Boo80, FGKU15, GHST17, LO94]. subtree [Gro91a, Gro91b, Shik89]. 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, CFM00, GV00, HHLS06, Kos94, NR00, TTH05, Ukk93]. Suitable [CL97]. Summary [GH81].

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 [CL90, KAT07, Rob92]. supporting [CMW87]. supports [Nil90, WR15]. surface [TCCK09]. Survey [Brz02, Kn88]. Surveyor [Fra83, GHE83a, GHE83b, WNL+83]. Swap [AE06]. Swaps [ALLL98a, AAL+00, CCFG12, AAL+97a, ALLL98b, Mei15]. SWAR [CL90].

Symbolic [ACM94b, Bro09, Cha86, Har95, Lev95, Ng97, VHL+12, WN90, Fat15, Nic03, NA90, Ng79, NE90]. 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, 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. \textbf{SymSAC} [Cha86]. \textbf{synchronization} [JM90]. \textbf{Synchronized} [PIT+03]. \textbf{Synonyms} [LLW+15]. \textbf{Syntactic} [KKSL01, TB00, Wol86]. Table [KL98, FL99, KS99, LK99, LM99, SM99]. \textbf{Tables} [EF95, Mus05, Quo92]. Tagged [Lau00]. Tagging [Kul11, KEG+08]. tame [VP17]. talk [Rem17]. Taming [Hab04, KSH+15]. target [QLY07]. TASH [Wes97]. Task [YD95]. TAWK [Eck89]. taxonomy [CWZ10, WZ96]. TBNF [Man06]. TCAM [MPN+14, PD12, Yun12]. TCAM-Based [Yun12, PD12]. Tcl [Wes97]. Teaching [GOMSJVGP08]. Technical [Spi99b]. Technique [Vis91, ZT89, Bak78, CK02b, Fla88, PC02, Vis90]. Techniques [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]. TENCON [Bao93]. Technical [Spi99b]. Technique [Vis91, ZT89, Bak78, CK02b, Fla88, PC02, Vis90]. Techniques [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 [Dur94, Lav91, Pet92, PS93b, KN00]. Termination [GHW05]. Terms [Cha02b, ZMSD93]. tessellation [TT03]. Test [Har71, AG84, RP95, SMS15]. testable [Mei08]. Testing [Bre94b, Hei01, Lat94, Han92, KKM+85]. tests [Thi93]. Texas [ACM97c, NEH90, IEE94b, IEE95b]. Text [BBH+87, CC97, Fal85, GN01, Gon83, Gor00, GV05, How97, KR92, KTA99, Kuk92, KVM12, Man94, Man97, Nao91, NR99b, Nav01c, Pik00]. Ritzx, STS99, SKF+00, TMK+02, TTS2, ZAS7, AMB+02, ALLS07, BY992, BY996, BCD08, BGFK15, BC13a, BFNP10, CL09, CHLS07, CR95a, CM95, CEM91, CL96, GGF13, Gre88, GV00, How96, Ier09, II08, KR99, KT95, KWL08, MW92b, Mus03, Mus05, NKT+01, NT05, OKT92, RHI1, San95, SK96, SNZBY00, WM92a, YT03]. compression [CL96]. Texts [BKLP97, BG95, CL95, FT04, Lat94, ML96a, Rao95, TMK+02, BFKL13,
BSY00, BFG09, CD96, DS04, EU90, KS01, NR02, Sen00. Textual
[BH85, Haz94, Joh94]. Texture [VB98, VT98, TP07]. Their [Brz94, CJM12, Gin73, HN05, HMKR12, OF61, RS59, BRL13, GR92, KSV15, Lau00, NEH90, Pel87]. Theorem [WZU14].

Theoretic [Pie08, Sri93]. Theoretical [CL92, FJ92, MAC14]. Theorie
[SM74]. Theory [ACM69, ACM74, ACM76, ACM81, ACM84, ACM86, ACM90, ACM91, ACM92d, ACM94, ACM95, ACM97].

Their [Brz62, CJM12, Gim73, HN05, MHKR12, OF61, RS59, BRL13, GR92, KSV15, Lau00, NEH90, Pel87].

Third [ACM69, ACM74, ACM76, ACM81, ACM84, ACM86, ACM90, ACM91, ACM92d, ACM94, ACM95, ACM97].

Thirty [ACM00, ACM99b, ACM99c]. Thirty-first [ACM99b].

Thirty-second [ACM99b]. Tighter [ACM81, ACM94c]. Tighter
[ACM00, ACM99b]. Tighter [ACM91, AGS93d, Apo92].

Tight [ACM92, FJ92, MAC14].

Three-Dimensional [ACM74, ACM76, ACM81, ACM84, ACM86, ACM90, ACM91, ACM92d, ACM94, ACM95, ACM97].

Three-Dimensional [ACM00, ACM99b]. Three-Dimensional
[WS98, AFI98, Bak93, Han92, HR90, SBR07, VVV04].

Three-Dimensional [ACM00, ACM99b]. Three-Dimensional
[ACM91, AGS93d, Apo92].

Three-Dimensional [ACM81, ACM94c].

Thresholds [BSTU08]. threshold [BSTU08]. Thresholds
[BSTU08]. Thresholds [BSTU08].

Throughput [ACM02]. Throughput
[BSTU08]. Throughput [BSTU08].

Throughput [BSTU08]. Throughput
[BSTU08]. Throughput [BSTU08].

Throughput
[BSTU08]. Throughput
[BSTU08]. Throughput
[BSTU08].

Throughput
[BSTU08]. Throughput
[BSTU08]. Throughput
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Throughput
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Throughput
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Throughput
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Throughput
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Throughput
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Throughput
[BSTU08]. Throughput
[BSTU08]. Throughput
[BSTU08].

Throughput
[BSTU08]. Throughput
[BSTU08]. Throughput
[BSTU08].
BG91a, 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].
translational [Man06]. traversal [NRO12]. traversal-based [NRO12]. Traversals [Sto96].
Tree [AGT89, AM91, AYCLS02, Cha02b, Cha02c, CHZ06, CH97b, CH03, DGM94, FV16, GHLW15, JWZ94, Kid09, KM94, KHL16, LPR+08, MS98, RR90, Shi00, Shi04, Sto96, BDB90, BTG83a, BTG83b, CGR03, Cha87, CLS95, DF00, DGM90, EHS07, FCFM00, Far92, FG99, KS11a, Kos89, Mal93, SGM00, Kou06, CGR02].
Trees [BYCMW94, BCP02, GHLW15, Gol93, Gro92, GV05, HO82, JWZ94, RR92, SCFC94, Sim83, ACFC+16, CPT92, Gro91a, Gro91b, GV00, Gus97, JRV96, Kos94, Mäk89, TTHP05, Ukk93, Ver92].
TriAL [LRSV18]. Triangle [IEE89]. Tricks [Abb94]. Trie [CCH09, GO12].
tries [BYG96]. Trigram [Cox12]. Triplestores [LSV18]. Truly [GP92]. Tucson [ACM97a, Apo92].
Tumor [WZJH12]. Turing [GOMSJVGP08]. Turkey [SMD04]. Tutorial [Lut02].
Twentieth [ACM93a]. Twenty [ACM96, ACM97, AAC+01, AOV+99, B+02, ACM90b, ACM91, ACM92d, ACM93b, ACM94d, ACM95c, ACM97c].
Twenty-Eighth [B+02]. Twenty-Fifth [ACM06, AOV+99, ACM93b].
twenty-fourth [ACM92d]. twenty-ninth [ACM97c].
twenty-sixth [ACM90b]. Twenty-seventh [AAC+01, ACM95c]. Twenty-Sixth [ACM07, ACM94d].
Twig [DLG12, BKS02, KRML09, MMZ10]. twigs [RM06].
Two [AF92, ABF94a, ABC+04, Ano68, ADLM96, BYN98, BKLP97, Bir77a, BGJ01, CDJM15, CL95, CHZ06, CHLT14, CP91, CR92, CGR93, CCG+94, CGPR95, CCI+98, CIK98, FUG98, FNR02, GJST6b, Gia93, HY92, HW12, JSC83, JU91, KPR00, KU99, LY86, Mid96, Ott04, Par96, She59, Tit83, ZT89, AK08, ABF94b, AKT06, AGM05, ADLM01, BYR93, Bar84, CK02b, CP10, CCG+93, CR94, GP92, HY90, HLN09, KWL07, dSOMY15, Par98, Rot91, SN94, VLP17].
Two- [KU99]. Two-Dimensional [AFB94a, ADLM96, BYN98, BKLP97, CL95, CHLT14, CR92, CGPR95, CCI+98, CIIK98, FUG98, Gia93, HY92, HW12, KPR00, Par96, ZT89, AF92, ABC+04, CGR93, Mid96, Tit83, ABF94b, AKT06, AGM05, ADLM01, BYR93, CR94, GP92, HLN09, Par98].
Type [JM93, Sou99, Van06, FF08, JOS7, Nii90, Pie08]. type-theoretic [Pie08]. Typed [JP11, X03, Dow91]. Types [FR00, Pref99, BC93, CGPS13, GLS07, GPN96, HVP00, HVP05, JOS7, KMT93, Kra08, dSOMY15, OR11, SG16, Vou06]. typeset [San95].
typing [FhDAF09]. Typography [AGS93a, AGS93c, AGS93d, AGS93b].
UK [AOV+99, PC99]. Ukraine [Bro93]. Unambiguity [BK93a, BK93b].
MIH17, Mor02, RPE81, Shi97, SNM07, YCK08, ZLN11, ZCÖZ12.

VIATRA2 [HBRV10]. Victoria [ACM92d, ACM08, MG94]. video [ASG99].
visualization [DKP11, HR00]. Visualizing [Joh94b]. VLDB [ABB93, B+02]. VLDC [VRD01]. VLSI [CF85, Hur84, ME97].

WAW [A+08]. Way [CP91, LYS86, Sch91a, Sch91b, She59, Ukk10, CR87, JL93, Wad87]. Weak [ACR01, For02, GGM12]. web [A+08, SMS15, AOMC07, CMRV10, SWZ01].
web-graph [A+08]. Weight [PRU11]. Weighted [CLOZ04, DM11, BLP90]. Weights [Nav04a]. Welding [Mu 95, MuT95, Mun95]. WHAM [LPT12]. Wheeler [Neu10, ABM08, ZMAB03]. where [Dow93]. Which [Gal76b, Gon02]. WI [FMA02]. wide [HFS05]. Wild [Cox10a, BvdM17]. wildcard [HH16].
Wildcards [GG95, GG97, Zha17, Kas08, LMRT14, ZHZ10]. window [HFS05, PW06]. Windows [FL12b, FG89]. Winter [NEH90, USE92]. Wireless [DCM15]. Wisconsin [ACM81, IEE95a]. Within [Wri94, BDFR08, PW93]. Within-word [Wri94]. without [CDP14, Zia96]. Witnesses [HN05, ALLT11]. Word [BGG12, Gil85, Kull10, Lia84, Mus05, IiK08, II08, KGA+12, KR95, OND98, SNZBY00, Wri94, Zia96].

X [SS93b]. X-ray [SS93b]. XDuce [Fri06b]. Xeon [TLS16]. XML [B+07, ADT15, AL08, BGNV10, B+07, BKS02, Cam99, Che08, CK02b, CGPS13, CMRV10, DGL12, Dwe00, EHS07, GLS07, Hos06, HVP00, HP01, HP03, HVP05, KS07, KH06, KRL09, LM01b, MNS07, MNS10, MZZ10, RM06, TB00, dLFM07]. XPath [SSS10]. XSDs [MNS12].

Yacc [Cox10c, MD10]. Yates [Hyy08]. years [ACFC+16]. York [AP10, Ano97b]. yourself [Abb77].

Zakopane [Win78]. Ziv [BFG09, FT95, FT98, KKP16, NR99b, Nav01c, NT05]. Zooming [PW06, GPR95b]. zur [SM74]. Zvi [Ano97b].
References


REFERENCES


for the Seventh Technical Symposium on Computer Science Education.


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


**References**


Amir:2011:ASM


Apostolico:2014:MSS


Amir:2006:SME


Amir:1992:TDD


Aceto:1998:QSE


Amir:1994:ADP


Apostolico:1984:PMM


Apostolico:1997:PMA


Atkinson:2006:EPM


Anselmo:2005:NOR


Andre:1993:ESI

REFERENCES


REFERENCES


REFERENCES

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).


REFERENCES


Amir:1992:EPM


Aiken:1991:IRT


Antimirov:1995:RER


Atzeni:1997:CP


Adjeroh:2002:PMB

Andrews:2002:KCD


Anonymous:1968:TCA


Anonymous:1987:ESC


Anonymous:1992:AUa


Anonymous:1992:CPM


Anonymous:1996:JPM


Anonymous:1997:BRMf

Anonymous:1997:BRPj

Anonymous:19xx:URE

Anonymous:2001:MLP

Anonymous:2012:BRR

Anonymous:2017:ENS

Antimirov:1995:PDR
REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Bernstein:2002:VPT


Babin:2005:PRP


Bourret:2007:AXA


Bansal:2006:AGP


Beal:2015:EPM


Beal:2016:CPP


Backofen:1994:RPE

REFERENCES

CODEN JSYCEH. ISSN 0747-7171 (print), 1095-855X (electronic).


REFERENCES


REFERENCES


REFERENCES


Bidoit:1998:FST


Balachandran:1990:ERC


Ben-David:2008:EFA


Bodlaender:1994:PCS


Beebe:1981:IPM


Butman:2004:SPS

Baron:2012:SPM


Baron:2013:SPM


Benson:1994:SEA


Berry:2000:CBM


Bernecky:1997:PBI


Bille:2008:FCR


Bille:2009:IAS

[BFG09] Philip Bille, Rolf Fagerberg, and Inge Li Gørtz. Improved approximate string matching and regular expression matching


REFERENCES


REFERENCES


REFERENCES


Bex:2010:LDR

Bille:2012:SMV

Berkovich:1985:MSP

Breslauer:1996:OPC

Bergeron:2002:VAA

Brown:2007:RIS
Bird:1977:TDP


Bird:1977:IP1


Bird:2010:PFA


Blunschi:2012:SGS


Beyer:1979:LAI


Brazma:1986:GRE


Burton:1989:FPQ

REFERENCES


REFERENCES


Bocker:2008:CAM


Bex:2010:ICR


Bjorklund:2013:SRP


Bontempi:2007:BSI


Booth:1980:LLC


Bowman:1987:PMU


Brzozowski:1963:CSM

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


REFERENCES


REFERENCES


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


REFERENCES


REFERENCES


REFERENCES

Baeza-Yates:1996:FAS


Baeza-Yates:1992:NAT

Ricardo Baeza-Yates and Gaston H. Gonnet. A new approach to text searching. Communications of the Association for Computing Machinery, 35(10):74–82, October 1992. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). URL http://www.acm.org/pubs/toc/Abstracts/0001-0782/135243.html. This paper describes a new linear-time string search algorithm that can handle limited regular-expression pattern matching without backtracking. See also [KMP77b], [BM77], [KR81], [Sun90], and [WM92a].

Baeza-Yates:1996:FTS


Baeza-Yates:1996:FAA


Baeza-Yates:1997:MAS


Baeza-Yates:1998:FTD

REFERENCES


Campanelli:2012:PMS


Cole:1993:OFP


Cameron:1999:RXS


Clarke:1997:URE


Cantone:2013:ESM


Cameron:1999:RXS

REFERENCES

Crochemore:1994:STS

Crochemore:1999:FPM

Chang:2009:HTF

Christou:2013:ESC

Coulson:1987:PNA
Consel:1989:PEP

Colussi:1996:TSE

Cheng:1996:FHR

Chen:2005:ESM

Chew:1995:GPM
REFERENCES


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

Cristian Cadar, Vijay Ganesh, Peter M. Pawlowski, David L. Dill, and Dawson R. Engler. EXE: Automatically generat-
REFERENCES


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


REFERENCES


REFERENCES


[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


[CK02b] 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

REFERENCES

Chang:1994:SAS

Choi:1995:TDP

Crochemore:1996:PMT

Cameron:2009:ASS

Champarnaud:2004:RWE

Cho:1995:LHC


This paper show the equivalence of regular languages and regular sets.


REFERENCES

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


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[CW13] Chien-Chi Chen and Sheng-De Wang. An efficient multicharacter transition string-matching engine based on the Aho-


REFERENCES


REFERENCES


Deaton:1993:ACS


Dubiner:1990:FTP


Dubiner:1994:FTP


Durian:2010:IPE

REFERENCES


REFERENCES

Ducasse:2006:ECD


DellaVentura:1993:PES


Dowek:1991:SOP


Dowek:1993:UPM


Danvy:2006:OBM


deRezende:1995:PSP

REFERENCES


REFERENCES


REFERENCES


REFERENCES

Efrat:2004:PMS


Eker:1995:ACM


El-Mabrouk:1996:BMS


Emmelmann:1989:BGE


Eilam-Tzoreff:1988:MPS


Ellis:1998:REC

Duncan Ellis and Sameer Udeshi. A regular expression class library. *C/C++ Users Journal*, 16(5):??, May 1998. CODEN CCUJEX. ISSN 1075-2838.
Ehrenfeucht:1974:CMR


Faloutsos:1985:AMT


Farnum:1992:PTA


Fateman:2015:PAS


Firth:2005:CBA


Farach-Colton:1998:CPM

REFERENCES


REFERENCES


REFERENCES


REFERENCES

Faro:2012:FSA

Faro:2012:MSW

Faro:2013:EOS

Flaherty:1988:STM

Fan:2010:GPM

Florescu:1998:QCC
Daniela Florescu, Alon Levy, and Dan Suciu. Query containment for conjunctive queries with regular expres-
REFERENCES


REFERENCES

Fredriksson:2004:AOS

Faezipour:2009:HPE

Fredriksson:2002:OEF

Fosdick:1976:DFA

Forest:2002:WCE

Foster:1989:ALF
REFERENCES


REFERENCES

Fredriksson:2003:SSM

Fredriksson:2006:LAS

Friedl:1997:MRE

Friesenhahn:1997:EOU

Friedl:2002:MRE

Friedl:2006:MRE
REFERENCES


REFERENCES


REFERENCES

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

Galil:1979:IWC

Galil:1981:SMR

Galil:1984:OPA

Galil:1992:CTO

Galil:1995:CTO

Ganapathi:1989:PBR


REFERENCES


REFERENCES

Ganapathi:1983:SFRa


Ganapathi:1983:SFRb


Ghiron:1962:RMR


Gokhale:1991:BUHb


Guo:2014:LSS


Gagie:2015:BJP


REFERENCES

[163]

Giancarlo:1993:IDS


Giegerich:1990:CSI


Goto:1977:PHA


Gasieniec:1997:EIP


Gill:1970:SAR


Gillogly:1985:FPM


Gimpel:1973:TDP

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


[GOMSJVG08] César García-Osorio, Iñigo Mediavilla-Sáiz, Javier Jimeno-Visitación, and Nicolás García-Pedrajas. Teaching push-down


**Gemis:1993:OOP**


**Gasieniec:2001:TSE**


**Gasieniec:2003:TSE**


**Gostanza:1996:NLP**


**Galil:2004:TDP**

REFERENCES


REFERENCES


Grabowski:2015:NLC


Greenwood:1988:VSR


Griss:1979:HKR


Griswold:1983:ISP


Griswold:1985:RSI


Grossi:1991:FCS


REFERENCES


Ganesan:1993:STL


Gokhale:1993:DBC


Giancarlo:2000:CPM


Gustafsson:2006:EMB

REFERENCES


REFERENCES

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


REFERENCES

Goldberg:1994:FPS


Gulwani:2010:RBP


Habibi:2004:JRE


Hunt:2002:DIL


Hamilton:1988:LPE


Hanson:1992:RCT

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

CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). See also [TT82].

Harrington:1979:NSI


Harris:1997:SSP


Harada:2002:PMM


Harrusi:2010:FCP


Hazez:2001:MTC


Heiberg:2003:TDF


Hardavellas:2009:RNN


Hullin:2008:FIR


Hyyro:2005:IBP


He:2005:WWS


Haskin:1983:OCH


REFERENCES


[HKN14] Hiroyuki Hanada, Mineichi Kudo, and Atsuyoshi Nakamura. Average-case linear-time similar substring searching by the q-gram distance. Theoretical Computer Science, 530(??):23–41, April 17, 2014. CODEN TCSCDI. ISSN 0304-3975 (print),


REFERENCES


[HST01] Hideaki Hori, Shinichi Shimozono, Masayuki Takeda, and Ayumi Shinohara. Fragmentary pattern matching: Complexity, algorithms and applications for analyzing classic literary works. *Lecture Notes in Computer Science*, 2223:719–??,
Hromkovic:1997:TRE


Hazay:2014:CSP


Hirvola:2017:BPA


Hon:2017:PAE


Huang:1994:CDM

REFERENCES

Hudak:1989:CEA


Hui:1992:CSS


Hume:1997:BRB


Hume:1999:DSR


Hurson:1984:VDP


Horspool:1993:SAP


Hosoya:2000:RET

Hosoya:2005:RET

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 ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Han:2007:OSR


Hooimeijer:2009:DPS


Hundt:2012:ETD


Hwang:1985:PSC

REFERENCES


193

REFERENCES


[IEE89] IEEE, editor. 30th annual Symposium on Foundations of Computer Science, October 30–November 1, 1989, Research
REFERENCES


REFERENCES

IEEE:1994:PTC


IEEE:1995:ASF


IEEE:1995:PNA


IEEE:1997:ASF


IEEE:1998:ASF

REFERENCES


REFERENCES


Iliopoulos:1996:WTO


Israeli:1986:IPA


Isenman:1990:PAI


Idury:1994:MMP


Idury:1996:MMP


Itano:1988:IPM

Ito:1994:PTA


Inenaga:2005:FCP


Ilie:2002:COU


Jiang:2017:CSM


Jantzen:1985:ERE


Jayaraman:1992:SAL

REFERENCES

CODEN COLADA. ISSN 0096-0551 (print), 1873-6742 (electronic).


REFERENCES


REFERENCES


### REFERENCES

<table>
<thead>
<tr>
<th>Reference</th>
<th>Details</th>
</tr>
</thead>
</table>
Kahrel:2006:AIR


Karpinski:1982:DSM


Kastrup:2008:MLP


Khan:2007:NID


Krishnapuram:1987:HST


Kyatkin:1999:PMC


Kumar:2005:PCO


Kawanaka:2006:BBT


Khan:2016:TOS


Kida:2009:STB


Kusudo:2015:BPA


Kim:1999:NSP

REFERENCES


REFERENCES


[KKP92] Won Kim, Y. Kambayashi, and In Sup Paik, editors. *Database systems for next-generation applications: principles and prac-
REFERENCES

Karkkainen:2017:LLZ


Kubica:2013:LTA


Kim:2001:FRQ


Krotzsch:2012:PPA


Kleene:1956:REN


REFERENCES


REFERENCES

Katoen:2000:PMA


Krauss:2012:PPR


Knight:1989:UMS


Kuri:2000:PMB


Kucherov:2012:CDP

Kiwi:2011:LAS


Kashyap:1983:NSM


Kodratoff:1979:CFS


Kakeshita:1994:FCS


Kornman:1983:PMP


Kosaraju:1989:ETP

REFERENCES

Kosaraju:1994:RTP


Kebler:1993:APP


Kernighan:1999:PP


Kernighan:1999:RE


Kernighan:1999:REL

REFERENCES

architecture-and-design/sourcecode/regular-expressions/30200909; http://www.drdobbs.com/architecture-and-design/regular-expressions/architecture-and-design/sourcecode/regular-expressions/30200910. See also [Tho68, Cox07, Cox09, Cox10a, Cox12].


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Klein:2005:CPM


Klein:2006:CPM


Kasneci:2007:CRA


Karakoidas:2008:FJO


Kimelfeld:2011:FMT


Klein:2011:SDM

REFERENCES

Karkkainen:2012:CPM


Klein:2012:SDM


Kim:2015:TSI


Kim:1992:ASM


Kim:1994:FSM


Kurz:2012:CLI


REFERENCES


[KU09]
REFERENCES

LCCN ???. URL http://www.springerlink.com/content/978-3-642-02441-2.

Kukich:1992:TAC


Kulekci:2010:BNB


Kulick:2011:ESC


Kumar:2015:IAM


Kulekci:2012:FPM


Kim:2007:GAT

[KWL07] Min-Soo Kim, Kyu-Young Whang, and Jae-Gil Lee. n-Gram/2L-approximation: a two-level n-gram inverted index struc-

**Kim:2008:SOF**


**Kupferman:2002:IAM**


**Lin:2012:AAA**


**Labarre:2012:RCP**


**Larsen:1998:REN**

REFERENCES


REFERENCES


REFERENCES

Leiss:1980:CFA
Ernst Leiss. Constructing a finite automaton for a given regular expression. SIGACT News (ACM Special Interest Group on Automata and Computability Theory), 12(3):81–87, Fall 1980. CODEN SIGNDM. ISSN 0163-5700 (print), 1943-5827 (electronic).

Leiss:1985:CTU

Lengauer:1993:AEP

Lenzerini:2011:PPT

Lestree:1994:URU
L. Lestree. Unit route upper bound for string-matching on hypercube. Lecture Notes in Computer Science, 807:136–145,


REFERENCES


LeFessant:2001:OPM


Li:2001:IQX


Liu:2002:JIA


Losemann:2012:CEP


Losemann:2013:CRE


Lancia:2017:SSS

Leonardi:2007:OSR


Losemann:2016:CPD


Lewenstein:2014:LSI


Liu:2016:PCU


Lopez-Ortiz:1994:LPM


Lohrey:2010:CMP

October 2010. CODEN IFCSEN. ISSN 0129-0541 (print), 1793-6373 (electronic).


REFERENCES


REFERENCES


Lemström:2003:TIP


Lo:2009:SOC


Liu:2016:OAA


Lin:2004:ELP


Lustman:1994:STB


Lewenstein:2006:CPM


Li:2016:RDT


Li:1986:SMC


Leonard:2008:SDP


Lucarella:1996:VRE


Li:1998:HRE

REFERENCES


REFERENCES


[MBY91] Udi Manber and Ricardo Baeza-Yates. An algorithm for string matching with a sequence of don’t cares. *Information Pro-

Ma:2011:CTG


McI85a


McI85b


McIlroy:2004:ESR


Moreira:2017:FCR

REFERENCES


REFERENCES


REFERENCES

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


REFERENCES


Moscola:2008:RCB


Murphy:2008:DGB


Myers:1989:AMR


Michailidis:2002:PSL


Michailidis:2003:PEL

REFERENCES

Michailidis:2007:PAP


Mateescu:2011:CEC


Medeiros:2014:RPE


Mytkowicz:2014:DPF


Mandreoli:2010:PHS


Martens:2012:DAX

Wim Martens, Matthias Niewerth, Frank Neven, and Thomas Schwentick. Developing and analyzing XSDs through BonXai.
REFERENCES


Martens:2007:SSA


Martens:2010:CDP


Makinen:2005:TIS


Myers:1998:REA


Mohri:1994:MST


Mohri:1997:SMA

REFERENCES

Montanaro:2017:QPM


Moore:1964:SMS


Moran:1983:CDO


Morris:2002:AGJ


Mitchell:1988:OHS


Mauri:2005:APM

REFERENCES


**Mohanty:2014:SOS**


**MuQqoz:1995:MTW**


**Makinen:2002:LSB**


**Matsushita:1996:FPM**


**Munoz:1994:MTW**


**Mungan:2007:SML**

REFERENCES


Mustafa:2003:MDS

Mustafa:2005:WOA

MuThoz:1995:MTW

Muthukrishnan:1997:DFM

Muthukrishnan:2000:SOP

Manber:1992:APM
REFERENCES


REFERENCES

CODEN LNCS/9. ISSN 0020-0190 (print), 1872-6119 (electronic).


REFERENCES


REFERENCES

Nordio:2010:IQE


Nedjah:2002:PMC


Nedjah:2002:ECD


Nedjah:2002:OAP


Nebel:2006:FSM


Nedjah:1998:MDL


REFERENCES


REFERENCES

Owolabi:1993:EPS


Pagan:1978:FSS


Perez:2009:SCS


Pakin:1991:REG


Pandey:2012:PDS


Park:1996:ATD


Park:1998:ATD

Patel:1971:GRL


Paterson:1999:CPM


Park:2002:EQP


Prins:1999:ICF


Peng:2012:TBN

REFERENCES


REFERENCES


Papadias:2001:AST


Petricek:2011:EMP


Pol:2001:PST


Poleksic:2013:IAM


Poulovassilis:1993:PMA


Parigot:1985:LAP

REFERENCES

Percus:1994:SMN

Porat:2009:EAP

Pasetto:2010:TVF

Papadopoulos:2015:PAP

Porat:2008:PMP

Prather:1997:REP

Preoteasa:1999:RBU
REFERENCES


REFERENCES


Plumlee:2006:ZVM


Qiu:2007:ESA


Qu:2008:RPM


Quigley:2000:LSE


Quigley:2002:USE


Quong:1992:FAC

Qin:2013:ASS


Qiao:2017:SMC


Ramesh:1994:RMR


RaoKosaraju:1994:CSS


RaoKosaraju:1995:PMC


Raymond:1996:RRE


Robbins:2005:CSS


Reid:2003:BNS

[Rei03] Paul Reid. *Biometrics and Network security*. Prentice Hall series in computer networking and distributed systems. Prent-
REFERENCES

[135x681]REFERENCES


Ritchie:19xx:IHQ

Reuhkala:1979:RHA

Robles-Kelly:2002:SED

Ratcliff:1988:PMG

Rao:2006:SXD

Ropelewski:1997:IGS
Robson:1979:ECP


Robinson:1992:HSR


Romero:2014:MPR


Rote:1991:CMH


Rauchwerger:1995:LTS


Rodeh:1981:LAD


Ramesh:1990:PTP

Ramesh:1992:NPM


Rabin:1959:FAT


Regnier:1998:CSP


Rottenstreich:2017:ORC


Rendel:2015:ARL


Rautio:2002:SMSa

[RTT02a] J. Rautio, J. Tammink, and J. Tarhio. String matching with stopper compression. In Storer and Cohn [SC02], page ??
REFERENCES


Rytter:1989:NOP


Stockman:1977:EHC


Sanfeliu:1996:ERC


Sadeh:1993:ASM


Sadeh:1996:UDC


Salmela:2012:ACB

Leena Salmela. Average complexity of backward q-gram string matching algorithms. *Information Processing-


REFERENCES

Storer:1998:PDD

Storer:1999:DPD

Storer:2001:DPD

Storer:2002:DPD
REFERENCES


REFERENCES


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

Schulzrinne:1995:DCC


Schwartz:1999:CRE


Schmid:2013:ICR


Savoy:EPODD-4-2-87


Sittampalam:2001:HOP


Solodkyy:2014:OPM

REFERENCES


REFERENCES

Singh:2012:LSS

Singh:2016:TSD

Shankar:2000:NAL

Stearns:1985:ECP

Sharpe:1988:ARE

Shapiro:1993:CCR
V. Shapiro. Cross-correlation with reconstruction: a new approach to pattern matching. *Lecture Notes in Computer Sci-
Soo:1993:DCP


Shepherdson:1959:RTW


Shields:1992:SME


Shields:1997:SMB


Shibuya:2000:GST


Shibuya:2004:GST

Schoepe:2014:STI


Silverston:1977:NPM


Simon:1983:PMT


Simon:1994:SMA


Sadoghi:2013:AOB


Shibata:2000:SPM


Shannon:1956:AS


Shannon:1974:STA


Sperberg-McQueen:1999:SRE


Stubblebine:2004:SHD


Storer:2009:DPD


Storer:2010:DPD

REFERENCES


REFERENCES


SilvadeMoura:2000:FFW


Sommerville:1982:PMS


Soufi:1999:TSR


Spencer:regexp


Schwartz:2008:LP


Spinellis:1999:DPO


Spinellis:1999:TCD

Dionidis Spinellis. Technical correspondence: Declarative peephole optimization using string pattern matching.
REFERENCES


[SS93a] Ivan I. Shevchenko and Andrej G. Sokolsky. Studies of regular precessions of a symmetric satellite by means of com-
REFERENCES


Smith:1993:XLN


Senoussi:1994:QAT


Silvasti:2010:ELX


Sutinen:1995:UGL


Shawe-Taylor:1996:FSM

REFERENCES


Stojmenovic:1996:CTB


Stomp:2002:CSP


Shibata:1999:PMT


Stubblebine:2003:REP


Stubblebine:2007:REP

REFERENCES


Schwartz:1993:DSI


Snodgrass:1994:PAS


Sima:1998:TN


Smyth:2009:AHP


Schafer:2012:DCH

REFERENCES


REFERENCES

89, ???? 1985. CODEN COLADA. ISSN 0096-0551 (print), 1873-6742 (electronic).


REFERENCES


REFERENCES


<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
</table>
 REFERENCES


REFERENCES


REFERENCES


Walther:1988:MSU


Walker:1989:FPI


Watson:1996:NRG


Watson:2003:NRG


Weste:1983:DTW


Wang:2014:ODA


Wang:1994:CPDa

Jason Tsong-Li Wang, Gung-Wei Chirn, Thomas G. Marr, Bruce Shapiro, Dennis Shasha, and Kaizhong Zhang.


REFERENCES


REFERENCES

agrep program, publicly available via ANONYMOUS FTP to cs.arizona.edu in the agrep subdirectory. See also [BYG92].

Wu:1992:AFA


Wu:1995:SAA


Watanabe:1990:IP1


Wulf:1983:SFR


Wolberg:1986:SOC


Wolff:1990:SPS


Alden H. Wright. Approximate string matching using within-word parallelism. *Software — Practice and Experience*, 24
REFERENCES


REFERENCES

Ye:2008:DSA


Yu:1995:DTA


Yu:2015:ESS


Yuan:2018:ASP


Yoo:1991:EAL


Yoo:1992:ERE

Yu:2015:EEA


Yasuda:1989:PAM


You:1984:PES


Yoshida:2011:PCP


Yang:2011:FME


REFERENCES


REFERENCES


[ZKCY07] Minghua Zhang, Ben Kao, David W. Cheung, and Kevin Y. Yip. Mining periodic patterns with gap requirement from se-
REFERENCES

Zheng:2011:SPM

Zhang:2003:APM

Zobel:1993:SLL

Zha:2013:GGH

Zengin:2017:FAH


Zu:2012:GBN


Zeng:2012:CSB


Zhang:2010:PMW


Zhang:2016:CRA