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

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Title word cross-reference

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

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

.NET [AS04, SM04, Stu07].

/ [Bao93, IEE94b, SW94].

'08 [ACM08].

1003.1-2001 [IEE01a, IEE01d, IEE01c, IEE01b]. 10th [PC99]. 11th [GS00].
12th [AL01, Bun94]. 13th [AT02]. 14th [AAC+01, BYCC03]. 15th
[ACM93a, ACM93b]. 1994 [ACM94a, ACM94d, SW94]. 1995
[ACM95a, ACM95b, ACM95c]. 1997 [ACM97b, ACM97c]. 1999
[ACM99a, ACM99b, AOV+99]. 19th [ABB93, FL08].


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

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

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

6 [IEE01a, IEE01d, IEE01c]. 68 [HK77]. 6th [BGNP94, GU95].
'79 [Ng79]. 7th [HM96, Hwa85, Win78].

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


algorithm [Neb06, PLL10, PS90, Per94, Ryt80, SW90, SS94, SGYM00, Sto02, Tak96b, Tak93, TZYH14, TM05b, TU88, Tho68, WW03, Wat03, YT03, YHV+15, ZC99, dB93].

Algorithme [Alb89].

Algorithmic [ABBH+16].

Algorithms [ACM97b, AHU74, ALR08, iA94, ADLM96, BY96, BLP94, BS97, BH02, BJM79, BCFL12, CL92, CHL14, Chn95, CHZ06, CLR90, CR92, CCG+94, DB86, FL12b, Ga176b, GG97, GS85, GIG77, GK86, Gup97, Hig86, HSTS01, ISNH94, JU96, KTU87, KR81, KR87, KP99c, Kha16, KMT+01, Lab12, Lec95, LT16, LS94, Lut02, MP05, Mut97, Ott94, Par96, Pol13, RS98, SV94, SN92, Sed83, Sed90, Sim94, Tar81a, VG01, YD95, ZZ12, de 82, ALP04, AG97, ADLM01, ARS16, BYF96, Bak93, Bar84, CMO+08, CDDM05, CLT07, CWZ10, CCG+93, CT96, CR94, CL96, DC94, ECSS88, Gal75, Gal76a, Gal84, GG13, Ind98, Ju91, KN00, Lec95, MAC14, MW92b, Mha05, MM07, MR13, NR02, Par98, PDC94, QLY07, Sal12, Sch91a, Sch91b, SZ05, Ta14, Val09, VHL+12, WZ96].

Analyses [A+08, Len93, Ano97b].

Aligned [LSTW+17, SN94].

Alignment [BLP94, Ben94, BDFW94, HPM94, JWZ94, KK08, LPT12, LPR+08, Pol13, RND97, CLT07].

Allowing [FNU02, CCF13, WM92a].

Almost [CGPS13, GR99, LMM17].

Almost-linear [CGPS13].

Analysing [HSTS01, MNNS12].

Analyses [WHZ+17].

American [NEH90].

American [NEH90].

Analyses [WHZ+17].

Answering [HH93a, HH93b].

Annual [ACM74, ACM76, ACM76, ACM76, ACM76, ACM76, ACM76, ACM76, ACM76, ACM76, ACM76, ACM76, ACM76, ACM76, ACM76, ACM76].

Answer [KKSL01, ADT15].
[KKM+06]. Association [DT87]. Associative [Eke95, YIAS89]. Associative-Commutative [Eke95]. Astronautics [WKA94].
Authorizing [WYA+07]. Automata
[Ant95, Cha02a, CLOZ04, DM11, FL12a, Ghi62, Gol93, GH13, GH15, HSW97, KPR97, KPR00, KV15, Loh10, MS98, MHKR12, MHT09, MY60, Mel95, Mol97, MR09b, NR98, NWE97, Ned98, Pet92, RS59, SM56, SM74, She59, SSSS10, Sim94, UW93, BDFR08, BS86, BH96, BK93c, CR78, GOMSJVGP08, HW07, HM00, HR00, Keg56, Lan00, NR00, NWE99, NdMM02a, NK07, Pet94, Ryt89, SY72, SBR+07, SH85, VW11, YH91, YB13, ZHH16].

background [RH81]. Backing [BAP06]. Backtracking [FKP77].
backward [Sal12]. Bad [Len93, MLM+08]. Baeza [Hyy08]. Baeza-Yates [Hyy08].
Balancing [MM02, MM03]. Baltimore [ACM90b]. Banff [A+08].
Barcelona [LV06]. Base [IEE01a]. Based
[AOK02, BL16, CDM11, CZCD09, D’A98, FYJ+17, FL12a, GR96, HH83, Kid09, KKSL01, KVX12, KNMH00, LT09, LS94, Lut02, MU02, Mye98, ND02, PS10, SF01, TMV+01, TK07, WPKL13, WD99, WZU14, Yun12, AF98, ASM17, ARS16, BC06, BFS00, CW13, CLP95, CK08, DLF+15, Far92, Gan89a, Gre88, Ier09, IIO8, KS07, KN00, LLL12, LHC04, MLC08, Mye99, NRO12, PD12, SZ05, TM04, TP07a, TP07b, TPT13, WL15b, WSW16, WHZ+17, YTO3, ZV97, ZZ12, ZYY+12, Ano96, Bro77]. Bases
[AAC+01, B+02, Gon83, ABB93]. Batched [Man86]. Bayesian [SD91].
Be [Cox07, LY86, PW93, Sch91a, Sch91b, AK09b]. Beach
[HM96, CVP86, IEE97]. Beam [DMWW77]. beams [NA90]. Beating
[ZGY+16]. Beautiful [OW07]. BEG [ESL89]. Beginning [JNS08].
Behavior [CDM11, We83, LYWL08]. Beijing [ACM07, Bao93]. Bell
Better [Gon02]. Between [Pre99, BGJ01, LSV08, Rot91, SN94]. bible
[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, FBM05, SVS97]. **Comparisons** [Bre93, CL92, GPR95a, Liu86, Bre96, PW06]. **Compatible** [LT09]. **Compiler** [AJ89b, GFH82, Pet92, vNG01, AJ89a, FKS06, HWF90, Jør92]. **compiler.kit** [Abb77]. **compilers** [BGNP94]. **Compiling** [AU72, AU73, PS93b, Sch99, GHR+16]. **Complement** [GN12, Rob79]. **Complete** [Ano68, BBH87, Pet02, Kin91]. **completeness** [TCC91]. **Complex** [Gor00, LR14]. **Complexité** [Alb89]. **Complexity** [ABBH+16, BKLP97, BDFW94, BCT94, Col94a, CHPZ95, CH97a, EZ74, GG91, GG92, GK68, GH15, He01, HK11, HSTS01, KLH16, MNS10, Mor83, RS98, Akl78, Als95, AK12, CGK08, CH92, CGG90, FCFM00, FK96, KS07, LM12, LM13, LMN16, Mag81, Man76, NF04, PS89, PAG09, Sal12, Via04, Yao79]. **components** [CFM00]. **Composite** [XK92]. **composition** [SV09]. **Comprehension** [BLS+94]. **Compress** [GH82]. **Compressed** [BR90, BA16, BKLP97, CL907, CLS+10, CHP92, FT98, FV16, FT04, GP01, GP03, Gaw12, Gaw13, GV00, GV05, IST05, KTSA99, Ki909, KS05, KS06, LSW08, Loh10, Man94, Man97, MHT09, MHM+01, NR99b, Nav91c, Rao95, STS99, TMK+02, YK11, ZMSD93, ABF94b, BCD98, BFG09, BRK12, CP97, FT95, GR99, GO12, HL90, KTS+98, KMS+03, NK+01, NT05, SNZBY00, TM04, TM05b, TM05a]. **compressible** [BFKL13]. **compressing** [WL15a]. **Compression** [ABM08, BC13b, CW84, FG89, GS85, How97, LS94, Man94, Man97, Neu10, RPE81, RT17, SKF+00, SC93, SC95, SC96, SC98, SC99, SC01, SC02, SC03, SC04, SC05, SM09, SM10, SM11, ASG99, AGS96, BFN0, Cha93b, CDC96, CL96, How96, Lar99, OW03, RTT02a]. **COMPSSAC** [IEE95b]. **computable** [EH88]. **Computation** [Bro93, COZ90, Cha86, Lev95, Ng79, Rao94, WN90, CCI+13, Han02, Ma06, NA90, PS93a, Tak96b, YT03, ACM94b]. **Computational** [Lab12, Gus97, HN11, Val09, Via04]. **Computationally** [HT14]. **Computations** [FKP77, CR91, NEH90, Pra97, PCS99]. **compute** [MS95]. **Computer** [ACM89, AHU74, Cop91, FJ92, Hea71, Hwa85, CVP86, IEE89, IEE90, IEE92, IEE93, IEE95a, IEE95b, IEE97, IEE98, IE909, Kü10, RJK79, S93a, Coo86, Fat15, Gus97, I109, Ker04, SS94, VVV04, Win78, ia94, KP15]. **Computer-Recognized** [RJK79]. **Computing** [ACM69, ACM74, ACM76, ACM81, ACM84, ACM86, ACM90b, ACM91, ACM92d, ACM93b, ACM94d, ACM95c, ACM97c, ACM99b, ACM00, ACM08, CFM17, C01, Cha94, DT87, DGBH93, FYJ+17, HM98, HM87, ISNH94, PK90, Rot91, RW10, W190a, BGN94, BC95, IP96, KL88, W190b]. **Concave** [KM92, KM95a]. **Conception** [Hud89]. **Concepts** [BGJ01]. **concise** [NSV10, 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+92, Bon94, FMA02, CVP86, IEE94a, IEE94b, IEE95b, KP15, MG94, SW94, Sto92, SC93, SC95, SC96, SC98, SC99, SC01, SC02, SC03, SC04, SC05, SM09, SM10, SM11, USE92, DT87, ACM69, ACM74, ACM76, ACM81, ACM92a, ACM93a, ACM94a, ACM95a, AGS93a, AGS93c, AGS93b].

**Conferencing** [Sch95]. **Configurable** [ACF05]. **Configuration** [Sch95].

**Conflicts** [YD95]. **Conjunctive** [CDL08, FLS98]. **connected** [Joh01].

**Connectivity** [Sri88]. **conquer** [SW12, SHCY93]. **consecutive** [KKR+13].

**Consensus** [BDFW94]. **Considered** [Sym85]. **Consistency** [ZCS+12, AL08]. **Consistent** [PW93, MAI+16]. **Constant** [BGG12, CGH+98, CRR99, Gal95, GPR95a, KRR17, Sto96, BGM13, Gal92].

**Constant-Sized** [KRR17]. **Constant-Space** [PGR95a, CRR99, BGM13].

**Constant-Time** [BGG12, CGH+98, Gal95, Gal92]. **constants** [KC11].

**Constrained** [CS11, CLT07, XJT+04, ZJL14]. **Constraint** [Coh90, CFK07, Smi91].

**Constraints** [GRS99, ZGS+15, CDL08, HW09, KS11a]. **constructability** [Kar82].

**Constructing** [IY02, Lei80, JRV96, TU88, TTHP05]. **Construction** [BP63, BH96, DPK11, FCFM00, Kos94, Mei08]. **Constructions** [Ant95, Ant96, Che96]. **constructive** [Tak96a]. **Containing** [HJ99, CFM00].

**Containment** [FLS98, CDL08, HN11, SH85]. **content** [LMT16, MLC08, TLL07]. **content-based** [MLC08]. **Context** [CK02a, Hac01, Hna94, 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** [AR08].

**Cookbook** [ST03, GL12]. **coordinated** [Mid98]. **cooperation** [CFM00].

**copattern** [RTO15]. **coprocessor** [TLL07]. **Coq** [MPdS12]. **Corasick** [CW13, NK07, PLL10, TM05b, TZH+13, TVCM12]. **Core** [TLC15, MAC14].

**Cores** [LSTW+17]. **corpus** [IIK08, II08]. **corpus-based** [IIK08, II08].

**correct** [Ryt80]. **Correcting** [Kuk92]. **Correction** [Aud02, BUR84, JP73, RJK79, WAG74, BSY00, MAE90, MS95, TIAY90].

**Correctness** [Sto02, SBR+07]. **correlated** [SWZ01]. **Correlation** [KC99, SHA93, WZJH12, PPZ08]. **Correspondence** [SpI99b].

**corresponding** [Lif03]. **Corrigendum** [FLS93a]. **Cortical** [TMV+01].

**cosine** [TP07a, TP07b]. **costs** [PW06]. **Counter** [WPKL13].

**Counter-Based** [WPKL13]. **Counters** [LT09]. **Counting** [GGM12, San95, Gel10, Nic03]. **course** [HR00]. **Covered** [Yun12]. **Covering** [CIR98]. **covers** [IP96, MS95]. **Covert** [HL10]. **CPM** [AL01, AP10, APO93, AH97, AT02, ACP05, BYCC03, CG94b, FC98, FL08, GU95, GS00, GM11, HM96, KS12a, KU09, LV06, MI07, PC99, SM04].
derivors [Gie90]. Described [KPR97, KPR00, SA96]. DescribeX [CMRV10]. description [CDL08, FKS86]. Descriptive [DH15, LMN16]. Descriptions [KRS95, KRS97, SC88]. Descriptive [GR96]. descriptor [All82]. Design [AHU74, BIR84, HRL97, OF61, SKI98, ZA87, Bur82, CMS08, HUR84, KCK93, MI07, SW12, WKR09]. designers [LS99].

Designing [II09, MBR83, SB09, DC94]. desukutoppu [SM04]. Detecting [Mut97, TMV+01, Mar89, MAo05]. Detection [CZCD09, KKK11, KNM00, Lee91, Les79, PAMP12, Sli83, TSS05, WWW+16, ZLN11, ACF05, BAC12, FNP09, JOH94a, KIO94, KAT07, LHNK04, OK94, QLY07, SA77, TSS06]. Determinism [GGM12]. Deterministic [BGNV10, BKW92a, BKW92b, GZ94, GMS12, Ind97, LY86, NED98, TLLL07, VW11, Vis90, Vis91, BS86, GHR+16, LNT00, LMN16, NDMM02a, SV09]. developers [LS99].


Diffusion [MSP+17]. Digest [CZCD09]. Digital [AGS93a, AGS93d, AGS93d, AGS93b, JRV96]. Digitized [LV94]. dimension [Bak78]. Dimensional [ABF94a, ADLM96, BYN98, BKLP97, CDEK95, CL95, CHLT14, CR92, CR95b, CGPR95, CGH+98, CK98, FU98, FNU02, GPP04, Gia93, GG95, GG97, HEWK03, HW12, KPR97, KPR00, KU99, KR94, LeS79, Les95, Par96, ZT89, AK08, AF92, ABF94b, ABC+04, AKT06, AGM05, ADL01, BHR93, BIR77a, CGK08, CGR93, CR94, GP92, HLN09, JLNK06, NBY99a, Par98, TST83, WC14]. dimensions [CCG+93, DRL95]. Directed [Fu05, Fu96, Fu97, Gud92, Kor83, BÖ13, Dan91, NII90]. Directly [Man94, Man97]. Directory [Zve80a, Zve80b]. Discontinuous [Lec91].

discourse [Kit94]. Discovering [LSTW+17, SW93]. Discovery [VG01, WCM+94b, MP05, WCM+94a, WZS95]. Discrete [ACM97b, Gin73, KC99, Nak14]. Discrimination [KC87]. Disease [TMV+01]. Disease-Specific [TMV+01]. Disjoint [LS10, YD95].

Disjunctive [HR03]. Disk [WHZ+17]. Disk-based [WHZ+17]. disordered [CGM10]. dispatch [MFRW09]. dispatching [FMD99]. Distance [BCP02, DAS88, KS94, KHK02, ZCO09, AEP06, AK12, AD11, BC95, CM07, EH98, GF08, HKN14, LeU97, PPZ08, Rot91, SKS96]. Distance-join [ZCO09]. Distorted [VB98]. Distortion [KC87]. Distributed [CPW88, IMR08, ML96b, NCKL14, TVCM12, ZLN11, AC93, DSV94, FW12, HFA09, LLC03]. Distributed-Memory [TVCM12]. Distribution [YJ84]. Diversified [FWW13a]. Divide [SW12, SBY93].


Divide-and-conquer [SHC93]. Dividing [KKK11]. DNA [HAI02, IMR08, LSTW17, MT14, TP97, YT03]. DNA/RNA [IMR08]. do-it-yourself [Abb77]. Document [BK93a, BKW92c, FKR15, KNS12, All82, Am93, BK93b, KRLM09, WZ95, WCH82]. Donald [Neu10]. Done [LY86]. Don’t [Aku94, BL94, Aku95, KR97, MBY91, NR17].


**general-purpose** [AAB+86, Sch91a, Sch91b]. Generalization [Shi00, Shi04]. Generalized [Abr87, BK86, GL86, Ham88, Hei01, Hir96, Hol84, MAI+16, OP16, VHC88, Wen93, FL71, Kin91, SW90]. Generalizing [SKS96]. Generated [AK09b]. Generating [CGP+08, Jør92, BJK+12].

**Generation** [AGT89, GFH82, GWvG10, HKR92, Ker04, Pat71, SY72, BDD90, BA06, FKS06, Gan89a, GHS82, KKP92, MSRR00, SMS15]. generalization [Shi00, Shi04]. Generalized [Abr87, BK86, GL86, Ham88, Hei01, Hir96, Hol84, MAI+16, OP16, VHC88, Wen93, FL71, Kin91, SW90]. Generalizing [SKS96].

**generated** [KS08]. Generator [VSM92, CLS95, ESL89, FHP92]. Generators [Fra83, GHF83a, GHF83b, WNL+83, Gan89b]. generic [ZKA12]. Genetic [GC01, RND97, MMDdJ11, Sel84]. Genomic [CCH09].


**Graph** [BLLW12, BGJ01, CFM17, D'A98, Eke95, FLM+10, Fu97, KS93, RKH02, WHZ+17, Zue96, A+08, BLR11, BSTU08, FWW13a, FWW13b, GPTV93, MCF+11, SW39, ST04, STK06, Ukk92]. Grand [Bao93]. Graph [BLLW12, BGJ01, CFM17, D'A98, Eke95, FLM+10, Fu97, KS93, RKH02, WHZ+17, Zue96, A+08, BLR11, BSTU08, FWW13a, FWW13b, GPTV93, MCF+11, SW39, ST04, STK06, Ukk92]. Grand [Bao93].


Hairpin [CDJM15]. Hamiltonian [YT03]. Hamming [AD11, GF08].
HAMPI [KGA+12]. Handwritten [CLP95, SKS96]. hard [LMM17].

ISSAC [Lev95, WN90]. ISSAC’93 [Bro93]. ISSAC’94. [ACM94b]. Issue [Cro92a, IEE01a, IEE01d, IEE01c, AGS93a, AGS93c, AGS93b]. issues [IS90, San15]. Istanbul [SMD04]. Italy [AAC+01, Apo93, FL08, GM11]. Iterable [LM02]. iterated [Jan85].

January [ACM87, ACM92a, ACM93a, ACM94a, ACM95a, ACM97b, USE92]. Japan [AT02, IEE94a, WN90]. Java [Ano96, Cal00, CGM06, Dwe00, FR00, Hab04, LM02, MFRW09, Mor02, NAR08, SM04, Stu07]. Java-based [Ano96]. java.util.regex [Hab04]. Jeffrey [Ano97a]. Jersey [FC98]. Jerusalem [AL01]. Jigsaw [BK93d]. JMatch [LM02]. join [WLF14, ZC ¨O09]. joins [BKS02, JLFL14]. Jose [ACM95b]. JPEG [KS05, KS06]. JTL [CGM06]. July [AL01, AH97, AT02, Bro93, Bun94, Cha86, Cro92a, FC98, GU95, KS12a, KP15, Lev95, LV06, MZ07, PC99, SMD04]. Jumbled [BCFL12, GHLW15, KRR17, BFKL13, GG13]. June [ACM92e, ACM92b, ACM95c, ACM98, ACM99a, ACM06, ACM07, AP10, Apo93, AH97, ACP05, BYCC03, Bun94, CG94b, FL08, FMA02, GS00, GM11, Hom96, Hwa85, CVP86, KU09, Le97, Ng79, Sto92]. JVM [BFN+09].


Keeper [Wei84]. Kentucky [ACM89]. Kepler [TLS16]. kernel [WKR09]. Key [CG79a, CG97b, GRI79]. Keyword [And02, ADT15, CWZ10, WZ96].


Knuth-Morris-Pratt [Bar81]. Kong [B+02]. Korea [ACM95b].

Laguna [HM96]. lambda [Dow91]. lambda-calculi [Dow91]. Language [ADR15, Ano86, Frob6, G93a, GP93, GH90, Gu92, GR96, Hi96, LS99, Lat02, MG97, SBF90, TB00, VV04, vNG01, Ar93, BK86, B500, CFM00, CM98, CGM06, CK08, CMW87, FL71, FDP08, Fri97b, HJW+92, Jor92, KH06, Mal93, MLC08, RW93, RTO15, SC88, SNM07, YIAS89, Zia96, DWE98].

Languages [ACM92a, ACM93a, ACM94a, ACM95a, BLLW12, CM98, HWW06, Hud89, KT06, KP99c, KLH16, Kor93, KST12, ND02, SA96, Sch13, Wag74, ACM87, AOMC07, BRL13, BLSS03, BKW92a, BKW92b, Coh90, Dit78, FhDA09, HWW07, HWJ03, HSJ04, HW09, Kes91, Mc04, MZZ10, Mye95, PP85, Sch88, Sm91, dLFM07, BGNP94]. Large [AAC+01, AV+99, BH85, B+02, LP13, VB09, WHZ+17, ZMS93, ABC93, BC13a, CD96, HA10, LYWL08, Owo93, RW10, YHV+15, ZD95, ZCº99, ZCºZ12].

Large-Scale [LP13, WHZ+17, LYWL08]. Larger [GZ94]. lash [Fos89].


Learning [BGNV10, Bra94, BC94, Bra95, KK08, Kin92, KK02, OR93, PDL98, SPF08, SG12, ZCS+12, BC06, Ker04, VV04]. least [Boo80, DK13].
Machines [Bow87, BP63, Moo64, OF61, YD95, GOMSJVG08, KAT07, MMS14, Yod91].
Macsyma [JM85].
Madison [FMA02].
maintaining [GO12].
Maintenance [MG94].
make [JT94, Mei15].
makematch [Kas08].
Mäkinen [Gro91a].
Making [ABBH16, ATdM07].
Malay [BSY00].
male [KT90].
Malicious [HL10, HT14].
Manacher [Akl78].
Management [DT87, FA02, SW94, Sto92].
Manga [QPWH08].
Manipulate [Ghi62].
Manipulating [VMML15].
Manipulation [Ng79, Wea94, GHS12, GS06, Mal93, MR05, RH81].
Manual [Mu95, MuT95, Mun95, Ski98].
Many [TLC15, Wal88, MAC14].
Many-Core [TLC15, MAC14].
Many-Sorted [Wal88].
Mapping [CFM17].
maps [BCWG09].
March [ACM83, IEE94b, SC93, SC95, SC96, SC98, SC99, SC01, SC03, SC04, SM09, SM10, SM11].
Marina [ACM69].
Markov [LBK08].
Marseille [Ng79].
Maryland [ACM90b].
Mass [BM08].
masses [Vol12].
Massive [OR12, YDDB15].
Massively [CG87].
Mastering [Fri97a, Fri92, Fri06a, LR14, Rom14, Uma97, Ano97a, Hum97].
Match [GHW05, KR92, LD10, Mor83, Pet92, Ses96, VB98, Zve80a, Zve80b, Bak78, BBHK14, DWE89, KSVJ15, KCK93, Mei15, ZCO09, ZCOZ12, HCH7].
Match-Bounds [GHW05].
Matcher [HH83, Coo86, Ker07].
Matches [Dav73, KF91, Mut97, MOG98, PRU11, Mha05, Ukk92, ZD95].
Matching [AOK02, Abr87, ABM08, AC75, AGT89, Aku94, AR00, ACR01, ABF94a, AAL97b, ALL97, ALLL98a, ALL00, AAL+99, ALR08, AP10, Ano92b, Ano96, iA94, AT02, ADLM96, AW89, Ash85, AJ93, ACD01, BST+03, BYP92, BYCM94, BYN96, BY96, BYN97, BYN98, BYN99, BEM+12, BCP02, Bee81, BH02, BH85, BKLP97, BL94, BM00, BBL93, Bow87, BG92, Bre93, Bre94a, BCT94, BG95, BCT98, BGG12, BG14, BCT06, BL16, BK93d, Bun95, BZ98, BGJO1, BCF12, BCC+13, CCFG12, CF06, CFM17, CMD11, CK02a, CLS+10, CL92, CM94, CCH09, CL95, CHP92, CHZ93, CHZ95, CHZ96, CI94, Col94a, CHPZ95, CH97a, CH02, CH03, CHLT14, Col94b, CG79a, CG79b, Cox07, Cox09, Cox10a].
Matching [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, ET88, Eke95, EIMC96, EF13, FT98, FL12a, FL12b, FG98, FL08, FR00, For92, Fug98, Fre92, FNU02, FT04, Fre96, Fu95, Fu96, Fu97, GHW15, Gal76b, Gal79, GS80, Gal81, GP90, GG91, GG92, Gal5, GPP04, GC01, GPR95a, GI97, GP01, GP03, GIMV03, Gau12, Gau13, GP93, GM02, Gia93, GG95, GG97, GM11, Gil85, GZ94, Gont92, GK86, Gru79, Gru83, GL01, Gro92, GLL6, GV05, GMN12, HD80, Han13a, Har02, Har97, HAR10, HL10, HT14, Haz01, Hea71, HEWK03, Hei01, HL10, HH93a, HO82, HST01, How97, Hui92, HW12, HN02, HN05, IS94, IMP01].
Matching [IMR08, IST05, IS86, IK83, JGZL12, JSC83, JU96, KPR97, KPR00, KU99, KS12a, KR81, KR87, KRS95, KRS97, KP93, Kes79, Kha16, KTS99, KMT+01, Kid09, KST94, KKS01, KKK11, KS06, KS11b, KS12b, KM92, ...
KM95a, KM95b, KMP77b, KLN16, KRR17, Kor83, KK02, KR97, Ku09, KNS12, Ku10, KVX12, KNKH00, KC99, Lab12, LSW08, LV94, Lav91, LP13, Le 91, LM01a, Lec95, Lec98, LKL02, Lee90, LT03, Les95, Les94, LV06, LY86, LTB04, LLLL08, LA12, LLCC13, LP11, Liu86, Liu88, LM02, LT16, LCL06, LW15, LS94, Lu02, MZ07, Maa06, MS98, MKF91, MU02, MW92a, MW92b, MGW14, MHT09, MUHT96, McI85b, MPN+14, MeI95, Mey85, MM02, MIH17, Moh97, MS01, Mon17, ML96a, ML96b, Mu 95, MuT95, Mun07, MR92, Mut97, Mut00, Myec92, Mye98, Nao91].

Matching [NR98, Nav98, NBY99a, NR99b, NBY99b, NBY01, Nav04b, NWE97, Ned98, NdmM02b, ND02, NCKL14, OR12, OP16, Ott94, OM88, PDL98, PAMP12, PS10, PK95, Par96, PV91, PPA10, PW95, Ph94, Pol13, PP09, Pou93, PK85, PS93b, RR90, RR92, Rao95, RMS88, RTO2b, RS98, RIA79, RKH02, RPE81, RT17, SV94, SMD04, STK10, SCFC94, SN92, Sca11, Sch95, SRR92, SRR95, Sha93, STSA99, SKF+00, Shi00, Shi04, Shi92, SSSS10, Sim83, Sim94, SF01, SdM01, Sli78, Sli83, SW09, Som82, Spi99b, Sto96, ST95, ST96b, ST04, Tak86, Tak94, TMK+02, TS05, TZW94, TU93, TP97, TMV+01, TK07, TCL15, TVCM12, UW93, Ukk10, VSM87, VB12, VWR11, Via02, VO1, VRD01, Vis91, Vis99, VS01, WPKL13, WSW16, Wat96, WKA94, WD99, WBA83].

Matching [Wri94, WM92b, WM95, Xi03, YP12, YP13, YQW+16, YK11, YJ84, Yun12, ZZ12, ZS17, ZS13, ZLN11, ZET98, Zue96, de 82, van14, yWL12, AMB02, AK08, AK09a, AK09b, AK11, ABH14, Ano97b, An09, AG84, Apo92, Apo93, AH97, AC97, AC05, ADL01, AGS96, AD11, AGW13, AG06, BFKL13, BYU03, BYP96, BYCC03, BSY00, Bak78, Bak93, BDB90, BCD98, BEM+13, BTO08, BGFK15, BR09, BA15, BA16, BKBB+14, BLL09, BLPL92, BFC08, BFG09, BGW12, Bir77a, BG89, BO13, BBL98, Bra90, Bra95, BBK12, BBHH14, BG90, BG91, BCT93, Bre95, Bre96, BGM13, BKS02, BFK+03, BC93, BEL04, CG08, CPT92, CCF13].

Matching [CS98, CPW88, CF88, CK04, CM10, CL90, Ch93a, Cha87, Cha02c, CRV06, CJ93, CR95a, CLS95, CDD05, CW13, CJW13, CNPS15, CH04, CS11, CR87, CWZ10, CJP13, CDP14, CP10, CH92, CCG+93, CH97b, CGG90, CT96, CD89, Coo89, CM07, Cro92b, CGR93, CG94b, CR94, CL96, CGG99, CC+99, CKC07, Dai09, DR06, DS04, DOS93, D06, Der95, Dj76, DjXX, Dit78, Dow91, Dow93, DC94, DGM90, DHPT10, FL+10, FWL31a, FWW13b, FC98, FT95, FL13, Fat15, Fen01a, Fen01b, FG95, FMB99, FNG+11, FBMA05, Fr03, FN04, FM06, Fr97b, Ga04, Gal75, Gal76a, GS81a, GS81b, Gal84, GG86, GG87, Gal92, GP92, GU95, GPR95b, GR99, GU16, GS00, GGG13, GC13, GCM02, GW92, GB90a, GB90b, GP96, GF08, GFG11, GN06].

Matching [GL89, GV00, GS06, HWW07, HY92, HLS07, HFS05, HC87, HR03, HH93b, HM96, HM00, HLS+11, HBRV10, HP01, HP03, HK77, How96, HLL09, HHL06, HFN05, Hy88, IIT13, IS96, Ier09, Ind97, Ind98, IS90, IM08, IM13, IS86, ISH88, JM93, JP11, JL93, Joh95, Joh94a, JU91, KTP10, KSV15,
Kas08, KN00, Kes91, KTS+98, KMS+03, KST92, Kim99, KWL07, KEF+14, KNT11, KS01, KS05, KMP94, KMP77a, KS96, Kos89, Kos94, Kri09, KKR+13, KST16, KGP+05, KT90, LMM17, LV86a, LV86b, LV89, Lar99, Lec07, LLC03, LH13, LH03, LS10, LP08, Liu81, LHCK04, LBK08, LO94, LT97, LLL13, MCF+11, MK00, MNU05, Man76, MBY91, MMZ10, Mar07, ME97, MAI+16, MP05, MC85a, MM03, MM07, Mis03, MHM+01, MR09a, MA12, Mun95, Mus03, Mus05]. **matching** [MM89, Mye95, Mye99, NYuR15, Nak14, Nar91, NBY99c, NR10, Nav00, NK+01, Nav01a, Nav01b, NR02, NF04, NT05, NC06, Neh06, NWE99, NdMM02a, NC92, NR17, NK07, Nil90, OK94, oSOMY15, OR11, Oph89, OW03, PS89, PLL10, PPTT15, Par98, PS90, PC99, PP94, Per94, Pet07, PMS11, PPZ08, PDC94, Quo92, RM06, RT02a, RUG97, RTO15, Sad93, SVS97, STK06, Sal12, SW90, Sch81, Sch91a, Sch91b, Sch88, SZ05, Sen00, SS94, SGM00, ST96a, SN94, Shi97, Sil77, SR16, Smi91, SDS14, SHCY93, Spe85, Spi99a, Srr93, SA77, Sto02, SWW+12, SV87, SNM07, Tak96b, Tak93, TBS06, TZYH14, TM04, TM05b, TM05a, Th93, TIT83, TLS16, TLL10, TLL09, TCC91, Ukk92, Ukk93, Van09, Van06, VV11, Via04, Vin77a, Vin77b, Vis90, Vis12, Wad87].

**matching** [WZS95, WGMH13, WLF14, WC14, WL15b, WZ96, WW03, Wat03, Wea04, YKGS11, Yao79, YT03, YB13, ZMAB03, ZH10, ZH16, ZA17, ZYX+12, dR93, dRL95, GH82, JD89, Neu10]. **Matching-Based** [CZCD09]. **matchings** [Iba97, RW10]. **matchlib** [Ano01]. **material** [RH81].

**Mathematica** [Har97, Mae94], **mathematical** [Rev91, Win78].

**Mathematics** [HM87, WSS94]. **Matos** [Pet95]. **Matrices** [CIK98, Gia93, PRU11, Lee82]. **Matrix** [FTJ95, TZW94, Kar82]. **Matrix-Vector** [FTJ95]. **Max** [IMP01, WPRL13]. **Max-Shift** [IMP01]. **Maximal** [BJM79, IF94, IS86, Che96, IS86, Ukk92, Rep98].

**Maximal-munch** [Rep98]. **Maximum** [ADLM96, OP16, ADLM01, LMM07]. **May** [ACM69, ACM74, ACM76, ACM81, ACM84, ACM86, ACM90b, ACM91, ACM92d, ACM93b, ACM94c, ACM94d, ACM95b, ACM95c, ACM97a, ACM97c, ACM99a, ACM99b, ACM00, ACM08, Apo92, DT87, KLB12, SW94].

**Mean** [Alb89]. **Means** [Ray96, SS93a, OW03, WD99]. **Measurement** [Lee91]. **measures** [EZ74]. **Mechanical** [NEH90], **mechanics** [NEH90]. **mechanized** [Chi08]. **meet** [KSVJ15]. **Meeting** [NEH90]. **Membership** [GM02, KZ02, lOh10, Pet02, MW94]. **Memory** [KKK11, LP13, Lec98, TVCM12, FG99, JSH09, LH13, LMT16, Nak14, PLL10, YKGS11, YIA89, ZYX+12]. **Memory-Efficient** [KKK11, LP13, PLL10, YKGS11]. **Merging** [Kit94, LK06]. **Mesh** [BM00, DKP11]. **Meshes** [CG94a]. **MeshFlow** [DKP11]. **Message** [GM02].

**META** [Kes79]. **META/REDUCE** [Kes79]. **Metamorphism** [KV15]. **metasystem** [GT90]. **Method** [CLP95, Hau94, LPT12, NBY99b, RJK79, SV94, WZH12, FMD99, GPR95b, Ker04, LLL13, MP09, TIAY90].

**Methods** [Fa85, GMV03, SBHM94, BSY00, Per94, SHCY93, TTHP05]. **Metric** [BCP02, CN02, ZCS+12, EHH88, Mag81, NC06]. **Metrics** [LP11].
Mexico [ACM92a, BYCC03]. MFC [AS04]. Miami [CVP86, IEE97].
Michoacan [BYCC03]. Microcomputers [ZA87, ZGE85]. Miller [CR91].
Milwaukee [ACM81, IEE95a]. MIN [WPKL13, YD95]. MIN-MAX [WPKL13].
Mining [GRS99, ZKCY07, MR13]. Minneapolis [ACM94c, SW94].
Minnesota [SW94]. Miranda [Tur86]. mismatch [AEP06, Neb06, Sel84].
Mismatches [AW89, AJS92, BST+03, ALP04, Der95, FGKU15, GG86, GG87, GU16, GGF13, Gra15, GL89, LV86a, NR17, SZ05]. Missing [DCM15].
ML [AJ89a, AJ89b, Ses96]. MMDBS [DWE89]. Minnesota [ACM94c].
mobile [CFM00]. Modal [Yod91, tC09]. Model [FYJ+17, GWG01, MCH93, MGH97, PP09, SWY75, SCFC94, AB89, Lin81, NRO12, Tak96a, TG96].
Models [BZ98, CDL95, A+08, Coo89, CK07, LT97, Nak14]. modification [Sch81].
Montreal [ACM94d, GS00, Lev95]. Moore [Ber00, Col94a, DR06, EMG96, GT05, Ryt80, STK10, Sto02, Tak96b, TU93, WW03].
Motif [Tan14, YHV+15]. Motion [KC99]. motivate [Fla88]. moves [CM07].
Multi [VZ97]. Mukherjee [Neu10]. Multi [CJ93, FMD99, GG95, GG97, Har02, LT03, LT90a, NBY99a, OR12, TMK+02, WSW16, Alb98, ARS16, CPT92, CCG+99, ETY88], JKNS00, KTP10, OW03, YT03]. Multi-attribute [Har02].
Multi-byte [TMK+02]. Multi-combinators [LT09a]. Multi-Dimensional [GG95, GG97, NBY99a, JKNS00].
Multi-Threading [OR12]. Multi-Track [LT03]. Multi-view [CJ93].
Multidimensional [SN92]. Multidisciplinary [Kni89]. Multidisk [KCK93].
multihead [CR87, Pet94]. multilingual [ZV97]. Multimodal [BWG12]. Multiple [STK06, Yun12, ZS13, BBK12].
Multiple [BHN97, BLP94, CF06, CJP12, FL12b, Gaw12, IS94, IS96, KTS+98, KMT+01, LT90b, LBK08, Mut00, OR12, PW95, SVS97, TM05b, VWR11, CK02b, Da109, Fen01a, FN04, HFN05, KGP+05, KIH15, Maa06, Mha05, NF04, PC02, PW06, WL15a, WZ96, ZC89]. Multiple-pattern [TM05b].
Multiple-Stride [VWR11]. multiplexing [Quo92]. Multiply [FTJ95].

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

Natural-Language [GR96]. Navarro [Hyy08]. nd [OND98]. nd-order [OND98]. near [HFFA09]. nearest [CEMW91].


network [HFFA09]. nearest [HFFA09]. nearest-optimal [HFFA09]. Nearest [CEMW91].


Neural [AB89, CG87, CLP95, SF01, CEMW91]. neuromata [ˇSW98]. neuropsychology [AB89].

Nevada [ACM95c]. next [KKP92]. next-generation [KKP92].

NFA [ARS16, Cha01, CP97, HM98, Hyy08, Li03, PD12, YKGS11, ZYX12].

NFA-based [ARS16]. NFA-OBDDs [YKGS11].

network [HFFA09]. nearest [HFFA09]. nearest-optimal [HFFA09]. Nearest [CEMW91].


Nearest-neighbour [CEMW91]. nearest-optimal [HFFA09]. Nearest [CEMW91].
[Bao93, IEE89, IEE90, IEE92, IEE95a, IEE97, IEE09].

off [MNS07].

offers [Fri97b].

Offline [MT14].

omega [SMT+86].

omega-extended [SMT+86].

Omni [Wol86].

Omni-Font [Wol86].

On-Line [FG98, GG97, Lut02, Tak86, CLP95, Fre06, Joh95, KNT11, CT96, FG95, Gal75, NR02, TIT83].

One [JKNS00, LY86, Sch91a, Sch91b, She95, WC14, Alb89, AGM95, Bak78, CR87, CCG+93, JLT93].

One-dimensional [JKNS00, WC14].

one-letter [AGM95].

One-Way [LY86, Sch91a, Sch91b, She95, CR87, JL93].

Online [FL12a, PS10, CJPSS13, FL13].

only [GS81a].

Ontario [Chl86].

Open [SDS14, ACM93].

Operational [HH83].

Operations [DJ96, AGM95, Ear74, GW92, GH09].

operator [HC87].

Operators [For02, Kea91a, Sym85, MMDdJ11].

Optimal [AKO97, AOK02, AR00, ABF94b, BH96, CG94a, CR92, CG94+98, FG95, FG98, FNU02, Gal84, Gal95, Gw913, GG97, Hig86, IY02, KU99, KR94, LMMN07, MS98, MP88, Mor83, Mut00, Nak14, NWE97, NdMM02b, RT17, SN92, KBK8+14, BG90, BKS02, CM0+98, CR94, FN04, GS81b, Gal92, GR99, GHK14, HFFA99, IKTX15, IP96, KR89, KT90, MSRR00, MS95, NEb06, PPTT15, Ryt89, ZC99].

Optimally [CCG+93].

Optimization [GC01, HJ99, LT09, Sca11, Spi99b, CK02, KWLL08, KGP+05, SJ13, Spi99a, VW11].

Optimized [AK99b].

Optimizing [CJBW13, CJBW16, Kha16, LM01a, KS08].

Optimum [LD10].

Oracle [FPD08, GL03].

Order [GU16, HW12, KEF+14, SnM01, Wag74, BLSS03, Chl08, CNPS15, CT96, Dow91, Gie90, Kes91, NRO12, OR11, OND98, Pie08, TPT13, Zef08].

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

Order-sorted [Gie90, Kes91].

Ordered [ST04, Cro92b, GRO91a, Gro91b, Mack89].

ordinary [Rev91].

Oregon [ACM94a, ACM94b].

O’Reilly [Ano97a].

Organization [IK83].

Organizing [CG87].

Orientation [TCCK90].

Oriented [GP93, KSS94, GPTV93, LLC03, Mus05, TG96].

Orlando [IEE88].

Orleans [ACM91, ACM97b].

Oscillator [FYJ+17].

Oscillator-Based [FYJ+17].

OSN [ZG81+16].

Out [Ano97a, Fri97a].

outbreak [FN09].

Outerplanar [BJM79].

Output [PM78].

Overcoming [Kul10].

overlap [PS08].

Overlapping [Ben94, BZ98, CCF13].

Overlay [LT16].

overview [PVA+92, Tur86].

Own [ZG81+16].

Oxford [Ano97b].

P [RUG97].

P2P [LLL12, LYWL08].

Pacific [IEE94a].

Package [van14, Kas80, Nic03].

packed [BKBB+14, GGF13].

Packet [LLL12, LMT16, VWR11, YP13, ARS16, BAC12, CMS08, NYuR15].

Padova [Ap09].

PageRank [LSV08].

pages [Ano97a, Ano97b].

pair [PPZ08].

Pairs [GLS92].

Paisley [yWL12].

Palermo [GM11].

Palindrome [Gal76b, IIT13, Gal75, Gal76a].

Palindrome-Recognition [Gal76b].

Palo [IEE93, IEE98].

PAMA [LCL06].

Paper [Pet95].

Papers [Cro92a, Mou06, ACM69, ACM74, ACM76, ACM81, ACM92a, ACM92c, ACM93a, ACM94a, ACM95a, IEE92, A+08].

paradigm [AC93].

PARAID [WOQ+07].

Parallel
Parallel-Algorithms [SV94]. Parallelism [MK91, WRi94, ASM17, HFN05, LV68b, NR00, RW93]. Parallelization [KP93, RP95]. Parameterized [BRL13, BDFW94, CHLT14, IS94, OP16, AFM94, Bak93, BA16, CGK08, FM06, HLS07, IS96]. Parameters [CJBW16, CJBW13]. Parametric [Chl08, HPM94]. parentheses [PDC94]. Parentheses-matching [PDC94]. Parenthesis [Sto96], Paris [Cro92a]. Park [IEE89]. Parse [Kea91a, DF00]. Parser [Hol84, TB00, Gan89b, LK06, MLC08]. Parsing [AU72, AU73, Cam99, Gor00, MGH97, MML14, Ier09]. Part [KP15, Kul11]. Part-of-Speech [Kul11]. Partial [Ant95, Ant96, CW84, CD98, GL01, KK08, Ses96, Sni91, Zve80a, Zve80b, ADR03, ADR06, DR06, HR03, Jor92, KCK93, MR90a]. Partial-Match [Mor83, Zve80a, Zve80b]. Partially [ZMSD93, HY92]. Partition [CF85, WL15b]. Partitioning [Fat15, Kim99, LYWL08, Mid96]. partners [LLL12]. Pascal [Liu86, Sha88]. Paso [ACM97c]. password [MW94]. paste [AM97]. patches [TCCK90]. Path [Bac94, BLLW12, CDLV99, HJ99, LM01b, Tar81a, Tar81b, TPT13, Che96, CK02b, LM12, FC02, YCJ08, YT03]. Path- [TPT13]. paths [GLS07, LM13]. Pattern [AMB+02, ABM08, ABF94a, AAL97b, ALL97, AAL+97a, ALLL98a, ALLO, AAL+00, AR08, AP10, AWS16, Aoo92b, Aoo96, IA94, AG84, AG97, AT02, ADLM96, AW89, Ash85, AJS92, AGS96, AD1, BYN98, BCD98, BEM+12, Bec81, BKLP97, BBL93, BBL98, Bow87, BTOC6, BL16, BG10, BCF12, BC93, BCC+13, CCFG12, CFM17, CS98, CDM11, CG87, CK04, Coa02b, CZCD09, CK92, CDEK95, CG94a, CLP95, CM08, CL95, CHZ06, CJPS12, CP14, Ch03, Col94b, CG79a, CG79b, Cro92a, CR92b, CGPR95, CL96, CGH+98, D`A98, DB86, DWE89, DLG12, DN77, Dit78, DCM15, DGM94, Dwe00, EIV04, EF13, F892, FLO8, FR00, FR02, FNU02, Fu95, Fu96, Fu97, GHLW15, GPP04, GC01, GRS99, GIK97, GP01, GP03, GIMV03, Gav12, Gaw13, GP93, GM02, Ga93, GG95]. Pattern [GG97, GM11, GMC02, Gil85, GW92, GGN06, Gri79, Gri83, GL01, Gro92, GL86, Har02, Har97, HAR10, HLS8, HL10, HT14, Haz01, Hea71, HE3K03, Hei01, HL97, HOS2, HST03, How97, HW12, CVP86, IMR80, IST05, JSC83, KPR97, KPR00, KU99, KS12a, KR81, KR87, KR94, KRS95, KRS97, KN00, KP93, Kes91, Kes79, KTSA99, KMT+01, Kid09, KKS03, KKK11, KS01, KS06, KM92, KM95a, KM95b, KMP77b, KRR17, Koe83, Koa08, KK20, KU09, KNS12, Kiil10, KVX12, KNHM00, KC99, Lab12, LV94,
Lav91, LP13, LM01a, LKL02, LSTW⁺17, LT03, Les95, LV06, LTL04, LA12, LLC13, LP11, Liu86, Liu88, LM02, Lut02, MZ07, MS98, MKF91, MU02, MW92a, MW92b, MGW14, MHT09, MUHT96, McI85a, McI85b, MS01, Mon17, Mu 95, MuT95, Mut00, Mye92, Nao91]. **Pattern**
[Nar91, Nav98, NBY99a, NR99b, Nao91, Nar98, NP09, NP09, PK95, PS93b, RR90, RR92, Rao95, RM88, Rv99, Ric79, SMD04, SCFC94, SN92, Sch95, SRR92, SRR95, Se84, Ses96, Sha93, SN94, STSA99, SKF⁺00, Shi00, Shi04, SSSS10, Sim83, SF01, StD01, SW90, Som82, Spi99b, Tak86, Tak94, TMK⁺02, TM05a, TMV⁺01, TK07, Ukk10, VSM87, VWR11, Via02, VG01, VRD01, Vis91, Vis99, Vol12, VS01, VB98, WCM⁺94b, WZ95, WSW16, Wat96, WKA94, WD09, WBA83, WM92b, Xi03, YP13, YK11, ZZZ10, ZLN11, ZT89, Zue96, yWL12, ADR03, ADR06, AK08, AK09a, Ak178, Alb89, ASG99, AYCLS02, ALV92, ALLL98b, AL01]. **pattern** [ABC⁺04, AKT06, ALLS07, ABH⁺14, An001, Ap92, Apo93, AH97, ACP90, ADLM01, AG06, BY93, BYCC03, Bakh93, BB90, BEM⁺13, BA15, BA16, Bir77a, BG89, BÖ13, Bra95, BBHK14, BKS01, CGK08, CRT92, CPW88, CF88, CMG10, Cha93b, Cha93a, Cha87, Cha02c, CRV06, CR95a, CLS95, CNPS15, CS11, CWZ10, CJS93, CCG⁺93, CH97b, CT96, CD89, CR93, CG94b, CR94, CGG⁺99, CKC07, D04, Di76, Di7X, Dow91, Dow93, DGM90, FLM⁺10, FW13a, FW13b, FC98, Fena11, FB105, FR97b, Ga04, GP92, GR99, GU95, GS00, GFC13, GG13, GP96, GS06, HWW07, HC87, HM96, HBRV10, HP01, HP03, HK77, How96, HLN09, IIT13, Iba97, Ier90, Ind97, IM13, ISHY88, JM93, JP11, Jon07, KTP10, KS15, KS07, KS08, KTS⁺98]. **pattern** [KMS⁺03, KS03, KS11a, Kin89, KS05, KMP94, KMP97a, Kos89, Kos94, KRR⁺13, KGP⁺05, LL03, LH13, LH03, LS10, LP08, Liu81, LBK08, LO94, MCF⁺11, MK90, Man76, MM01, Mar07, MA1⁺16, MP05, MHH⁺01, MR90a, MR13, MA12, Mum95, NYuR15, Nav00, Nav01b, NR02, NW99, NDMM02a, NR17, NK07, Ni90, KA04, OR11, Oph99, Ow03, PPTT15, Par89, PS90, PC99, Per94, PMS11, Quo92, RM06, Sch81, Sch91a, Sch91b, Sch88, Sen00, SGYM00, Sb77, Sni91, SDS14, SBY93, Sp85, Spi99a, Sfp93, Sfp02, SMD07, TZYH14, TM04, TM05b, Th93, T883, TLS16, Val90, Van06, VV11, Vaa04, Vin77a, Vni77b, Vis90, Wad87, WCM⁺94a, WGMH13, WC14, WL15b, WZ96, WW03, Wat03, We94, Yaq97, YC908, ZC89, ZAB03, ZA17, ZKO9, ZCO12, dRL95]. **Pattern** [JD89, YIAS89, Ano97b]. **Pattern-based** [Far92, KS07]. **Pattern-Directed** [Kor83]. **Pattern-Match** [Pet92]. **Pattern-Matching** [FR00, KPR97, KPR00, KR81, KR87, KRS95, KRS97, KP93, KVX12, Lut02, MUHT96, NWE97, ND98, Olt94, Pm92, SCFC94, Sch95, SS015, SW09, WM92b, CL96, GMC02, KN00, CF88, Di7X, FR97b, Ga04, Ier90, KSVJ15, LH13, Nav01b, NWE99, NDMM02a, OR11, Per94, Sch88, We94]. **Pattern-Recognition** [AWS16]. **Patterns** [B85, CLPB98, GM73, HNB⁺13, IS94, JGZL12, Kha16, Les79, SB09,
TMV+01, ADT15, Alb89, AG06, BLR11, BSM+07, BFS04, Bro77, CP10, Dan91, ETV88, IS96, JSH09, KIH15, KRML09, LMM17, MR09a, NdMM02a, Tak03, Ver92, Von06, Wal89, ZKCY07, ZJL14. Pearls [KN12, FHW10].

Pearls [Bir10].

pebbles [EHS07].

peeling [ALLT11].

Peephole [Spi99b, BA06, Spi99a].

peer [AB09]. peer-to-peer [AB09].

Penalties [KM92, KM95a].

2L-approximation [KWL07]. B.E. [Sca11].

Icon [Gri85].

J [KS08]. NIPS [TK07]. RNA [IMR08].

SIGAPP [DGBH93].

Space [GP01, GP03].

SQL [FPD08].

Tcl [Wes97]. Pennsylvania [ACM76, ACM99a, IEE92].

peptide [SVS97].

perform [MW92b].

Performance [FKWW12, HKL+14, IS90, Lee09, MM02, MM03, Sca11, YP12, YK11, YJ84, CGM10, Fen01b, Hur84, LH13, SWZ01].

perils [Fen01b].

Periodic [Mat94, CDM11, FLSS93a, FLSS93b, ZKCY07]. Periodicities [Sli83].

Periodicity [GPP04, MAI+16]. Perl [Lab12, Ano97a, Fri97a, Han01, LT09, SPF08, Sno01, SM04, Stu07, Val09].

Permutation [BL16, KKR+13]. Permutations [BBL93, BBL98, Chr96, Iba97]. permuted [BEL04].

Perrin [Bre97a, Han01, LT09, SPF08, Sno01, SM04, Stu07, Val09].

Picking [CJBW13, CJBW16].

Piconets [LTL04].

Pictorial [DOS93].

picture [Mar89, TCC91].

Pictures [JSC83, Tak93]. pipelined [ISHY88, PLL10].

Pisa [FL08].

Pittsburgh [ACM99a].

PHP [B+05, ST03, SM04, Stu07].

Picking [CJBW13, CJBW16].

Piconets [LTL04].

Pictorial [DOS93].

picture [Mar89, TCC91].

Pictures [JSC83, Tak93]. pipelined [ISHY88, PLL10].

Pisa [FL08].

Pittsburgh [ACM99a].

PL/SQL [FPD08]. placement [HFFA09].

Plagiarism [PAMP12]. Planar [CM08, Hig86, TZYH14].

plane [AK09a]. planted [Tan14]. PLAs [KTU87].

plasma [AP90]. Platform [HZ13, ZLN11, FNP09]. play [FHW10].

plexus [AB09]. plush [II09, MI07].

Plushie [MI07].

PMETA [Kes79]. pocket [FPD08, GL03, Stu03, Stu07].

PODS [ACM95b, ACM99a, ACM07, ACM90a, ACM92b, ACM94c, ACM95b, ACM97a, ACM98]. PODS’11 [Len11].

PODS’12 [KL12].

Point [CM08, GIVM03, Hig86, MU02, Ukk10, VS01, WKA94, ZHWW12, dRL95, AK09a, CGK08, CS98, Rot91, TZYH14, WC14].

Point-Pattern [MU02].

Poland [Win78].

Polaris [Weg94]. Policy [LTL04].

Polling [LTL04].

Polymorphic [Vou06]. polymorphism [DRW95].

Polynomial [BCC+13, ISNH94, PW93, FLM+10, GH09, Liu01].

Polynomial-Time [ISNH94]. polypeptides [SHCY93].

POPL [ACM94a, ACM95a, ACM87]. Population [TMV+01]. Population-Based [TMV+01].

Portable [IEE01a, IEE01d, IEE01c, IEE01b, ZE88].

Portland [ACM94a, ACM00, BGP94]. Position [PRU11]. Positions [YI02]. POSIX [IEE01a, IEE01d, IEE01c, IEE01b].

Possibilistic [WD99]. possibilities [LS99].

Post [KGP+05]. Post-compilation [KGP+05]. Postprocessing [RJK79].

PostScript [HV93].

Potential [KNMH00]. Power [Bao93, Wol90a, WOQ+07, Wol90b]. power-aware [WOQ+07].

PowerEN [HKL+14].

Powerful [Ano97a, Pol91, Fri97a].

Practical [ALR08, BYP92, CSY03, KK95, Lut02, NR99b, PPTT15, TTHP05, BYP96, CCG+99, DHPT10, Maa06, NR02]. Practicality [TT82]. Practice
Precessions [SS93a]. predicate [MFRW09]. predicates

[CM99b, TP07a, TP07b]. prediction [Fen01b]. Predictive [KKSL01].

Prefix [BM00, BCT94, BCT98, CIK98, GLS92, HWW07, Han13a, HAR10, RT17, BBHK14, BCT93, Bre95, BFK+03, DK13]. Prefix-Free

[Han13a, HWW07]. Prefix-Matching [BCT94, BCT98, BCT93, Bre95].

Preliminary [GS81b, LS94, WCM+94, LS94, WCM+94a]. Preprocessing

[Nao91, CCG+93, Ryt80, Sto02, Tak96b]. Presence [HT14]. presented

[ACM97, ACM97f, ACM97g, ACM97h, ACM97i, ACM97j, ACM97k, ACM97l, ACM97m, ACM97n, ACM97o, ACM97p, ACM97q, ACM97r, ACM97s, ACM97t, ACM97u, ACM97v, ACM97w, ACM97x, ACM97y, ACM97z].

Probabilities [PM78, Neb06]. Probability [SCFC94]. Problem [BCT94, BCT98, BF09, CF06, CK02a, Hui92, KS11b, KS12b, KZ02, Pet02, PW93, Yan95, Akl78, B+05, BSTU08, BC06, BCT93, CM07, Di16, DJXX, FL13, Goo05, Gra15, Gro91, GZ10, Karsk12, Maa06, Mak86, Man76, RTO15, Rob79, Sch81, St05, Tak96a, Tan14, Tho03, YTH+15, tC09, GLS92, BLPL92]. problem-based [BC06]. problem-solution [B+05, Goo05].

Processing [ACM90a, ACM90b, ACM90c, ACM90d, ACM90e, ACM90f, ACM90g, ACM90h, ACM90i, ACM90j, ACM90k, ACM90l, ACM90m, ACM90n, ACM90o, ACM90p, ACM90q, ACM90r, ACM90s, ACM90t, ACM90u, ACM90v, ACM90w, ACM90x, ACM90y, ACM90z].

Publications [BGG+94]. Process [Gro91a, VVV04]. Processes [SBF80, AB89].

Processing [CCL87, TMK+02, VCS+12, vNG01, CL09, CK08, ECSS88, Gre88, KSH+15, Khi94, QWX+13]. Processor

[HKL+14, LHCK04, ME97, MM07, TLLL07, WK90, CPW88, Sca11]. processor-based [LHCK04]. Processors

[AWS16, VCS+12, YP13, TLLL09, YIAS89]. Production
products [Yod91]. Professional [HZ13, JNS08].
Profile [FhDAF09]. Profile-guided [FhDAF09]. Profiles [SB09].
profondeur [Alb89]. Program [CDL+15, JP73, Mu 95, MuT95, Wea94, Kod79, KMMPN85, Mag81, MP09, Mun95, Pel87, Pra97, WZS95].
Programmable [CF5+89, GHK+91, LK90, MM07, LK88]. Programmer [BF97, Mae94]. Programming [ACM92a, ACM92c, ACM93a, ACM94a, ACM95a, AGT89, AWS16, Ham89, Hud89, KP99a, Kor83, Mae94, Mye98, ND02, Sym85, Tho68, VHC88, Wen93, ACM87, AC93, BAC06, BK89, CM86, Coh90, Ear74, Fla88, HJW+92, KS08, Mor02, Mye99, Pli08, Smi91, YIAS89].
Programs [Bir77b, RND97, VMML15, BK86, HN90, Jon07, KOI94, NWE99, NAR08, OK94, OR11, SLTB+06]. PROGRES [Zue96].
Projections [Wei83]. PROLOG [Wei84, CF88, Gan89a]. Proof [Asp12, KN12, PPTT15].
Proposal [Liu88]. Protein [CCL87, LSTW+17, Les95, MGW14, Pol13, VG01, FLSS93a, FLSS93b, HAI02].
Protein-DNA [LSTW+17]. protocol [AB09]. Protocols [HL10, HSL10].
Purpose [VCS+12, AAB+86, Sch91a, Sch91b]. push [GOMSJVGP08]. push-down [GOMSJVGP08]. Pushdown [MS98]. Puzzle [BK93d].
pyramid [SS94]. Python [LR14, Rom14, SM04, Stu07].
Q [MP88]. Q&A [Cal00]. Q-Coder [MP88]. QED [Ritxx]. quadtree [SS94].
quadtrees [BK89]. qualitative [MLM+08]. Quality [LLW+15].
Queries [BYCMW94, BLLW12, CDLV99, FLS98, HJ99, Kin92, WWW+16, ADT15, Am93, CK02b, FWW12, IKX15, LMRT14, ZCÖZ12]. Query [FLS98, KM94, AYCLS02, AL08, BLSS03, BFS00, CDL08, CMW87, KSH+15, MZZ10, PC02, QWX+13, RM06, ZCÖZ09]. Querying [BLR11, LM01b, San15, TV14, CM95, GW92]. Question [KKSL01, AF19, CKC07]. Question-Answering [KKSL01]. queues [SW201]. Quickscan [Sil77]. quirky [MLM+08]. Quotient [FPP08].
reading [BWG12]. Real [BG14, Gal76a, Gal81, Kos94, Sli78, Sli83, BGM13, CM90, Gal75].
Rebus [Gri85]. Recalibration [BM08]. recipes [B+05, Goo05].
Recognition [ACR01, AWS16, BGJ01, CG87, CJ93, CTF+98, CLP95, Gal76b, GS93a, CV86, 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]. Recombinant [Cop91]. Reconstructing [HPM94].
Reconciling [IM13]. Reconfigurable [BM00, MLC08, CMS08, Ram94, WKR09]. Reconstructing [Wei83].
Reconstruction [Sha93, Ste96, NCV10]. Record [Wei84, ACM69, ACM74, ACM76, ACM92a, ACM93a, ACM94a, ACM95a]. Rectilinear [GK86]. Recursion [Bir77b, BBS00, CM90, CMW87].
Recursive [FKP77, JD89, Dow93, GPR95b, HN90, Kra08]. Reduce [CM90, She59, DWE89, RP95]. Redundancy [Joh94b]. Redundant [RJK79]. reexamined [ORT08]. Refactoring [WGMH13]. reference [FPD08, GL03]. references [WL15a]. referencing [Lar98].
Refined [Pet94, Sch88]. reflection [HS08, Mor02]. Reflective [Dwe00]. refactoring [RTO15]. Regex [Sch13]. regexes [MM14].
RegeXeX [BH07]. Regexpcount [Nie03]. Region [Bao93]. regions [CM95]. Register [VSM87]. Registration [DMWW77]. Regular [AM91, ADR15, Ano68, Anoxx, Ant95, Asp12, Bac94, BTG83a, BTG83b, BC13b, BF97, Ber00, BGNV10, Bra94, BC94, BFS04, BTC06, BK93a, BKW92c, BK93c, Brz62, BP63, Brz64b, Brz64a, Brz65, CDLV99, Cam99, CSY03, CZ01, Cha01, Cha02a, CLOZ04, COZ09, CJM12, CDJM15, CGR02, CJBW16, CHP92, CC97, CKW09, CDL95, Cox07, Cox09, Cox10a, Cox12, Dav99, Dav03, Dav04, DM11, EU98, FLS98, FU82, Fri02, GJ16, GRS99, GGM12, GN12, Ghi62, Gil70, Gin67, Gol93, Goo05, GL12, GH13, GH15, Hab04, HM98, Ham88, HWW06, Han13a, Han13b, HW03, HN11, HLF99, Hir96, Hol84, HK11, Hos06, HVP00, HP01, HP03, HVP05, HN00, HSW97, Hum97, Hum99, IY02, KT06, KTU07, Kea91a, KP99b, KP99c, Kin92, KM92, KM95a]. Regular [KHL16, KN12, KV15, KZ02, KST12, LS99, LS06, Lar98, Lee09, LHZ98, LM01b, LT16, LT09, Loh10, Mad01, MS98, Mag81, MNS10, MY60, MPN+14, MR09b, MPdS12, Mye92, MOG98, NR99a, NR01, Nav01c, Nav04a, NR04, Org03, OF61, ORT08, ORT09, Pak91, PM78, PPA10, Pat71, Pet02, Pra97, Pre99, Ray96, Ric92, Ric79, SA96, Sca11, Sch99, SS93a, Sou99, Spe85, SM99, Stu03, Stu07, TV14, TB00, UMA97, VCS+12, VHC88, Wag74, WPKL13, Wat96, Wen93, WMM95, WZU14, XK92, Yam01, YP12, YQW+16, ZGS+15, Zia96, dLFM07, vNG01, AFI98, Ano97a, AGM05, AM95, Ant96, AOMC07, ACM02, BCG07, BYG96, BAC12, BRL13, BDFR08, BS86.
BNSV10, BFC08, BFG09, BK86, Bra95, BH07, BKW92a, BK93b, BKW92b, CGR03, CP97, CJBW13, CK02b, CLT07, CK08, regular
[CGPS13, Cox10b, DL03, DF00, EZ74, FL71, FDG11, FHW10, Fos89, Fr97a, Fri06a, GLR11, GR92, Gel10, GL03, GMS12, GH09, HW07, HWW07, HY90, HSJ04, HW09, Jan85, JSH09, Joh69, Kah06, KS08, Kar82, Ker07, KGA12, Kin91, Lau00, Lee82, Lei80, Lei85, LWS16, Lif03, LR14, LM13, LMN16, MMdJ11, McI04, MR05, Mor02, MZZ10, MM89, Nic03, PC02, PIT03, Rob79, Ron14, Ryt89, San15, SMS15, SGYM00, Sha88, SY72, SH85, SM04, SMT+86, Vou06, WL15b, WW03, Wat03, XJT+04, YKS11, YH91, YH92, YB13, ZZH16, ZC99, ZYX12, tC09, Tho68].

Regular-Expression [BTC06, Han13a, ORT08, ORT09].

Regular-like [BTG83a, BTG83b].

regulatory [MMDdJ11].

reifiable [dSOMY15].

Reinforcement [KK02].

Related [CHZ06, AS85, Gro91b, Sri93].

Relation [KN12, MR92, Pre99, LSV08].

relational [BGHZ15, HC87, KWW08, MZZ10, DWE89].

relations [BLSS03, BÖ13, MA16].

Relationship [XK92, GR92].

relaxation [SHCy93].

Reliable [KKSL01, CDC96].

Remarks [CR87].

Removal [KK95].

Renyi [AW89].

Repairing [LWS16].

repeated [LO94, Thi93].

repetitions [Cro86].

Replicable [CDM11].

replacable [NAR08].

Replacing [DCM15].

replication [HFFA09].

Representable [Dow93].

Representations [BR01].

Required [MW92b].

requirement [LH13, ZKCY07].

requires [Rob79].

Research [CPW88, IEE89].

Residue [BM00].

Resilient [ABBH16].

resolution [OW03].

resource [FK96].

resource-bounded [FK96].

resourceful [BFP08].

Resources [HAR10, MP09].

Restricted [Kin92].

Results [Lec95, WCM+94b, FL13, WCM+94a].

Retargetable [GHH82, BDB90, Gan89a, Fra83, GHF83a, GHF83b, WNL+83].

RETEx [Alb89, MK90].

Retrieval [BBH+87, GR96, LZ96, MKF91, Mor83, Zve80a, Zve80b, All82, BS00, PDM01, SD91, ZKA12].

Reusable [PV91].

Reuse [HL97].

Review [Ano97a, Ano97b, Hum97, Lab12, Neu10, Uma97, FL13].

revised [A+08].

revisited [CCI+13, GL01, RUG97].

rewrite [KN00, Ram94].

Rewriting [AM95, CDLV99, Dur94, GH05, Lav91, ND02, GCM02, KR95].

Rewriting-Based [ND02].

REX [Cam99].

Rexx [LS06].

Rey [ACM69].

Richness [QPWH08].

Richness-preserving [QPWH08].

rifarensu [SM04].

Right [NWE97, Ned98, Pat71, CWZ10, HR03, Tak96b].

Right-Linear [Pat71].

right-to-left [CWZ10, HR03].

Rigid [JM85].

Rigid-Body [JM85].

Risk [Lut02].

Risk-Based [Lut02].

RNA [AH14, BA15, MP05, SBHM94, Shi00, Shi04].

RNAi [QLY07].

robot [PS93a].

Robust [Le 91, WZH12, YP13, BFN+09, HLN09].

Roma [AAC+01].

Root [CHZ06, TLLLO7].

root-hashing [TLLLO7].

Root-To-Frontier [CHZ06].

Rosenberg [CR91].

Rosser [KKM+85].

Rotation [FU98, HW12, HLN09, TZYH14].

Rotations
S [BGFK15]. safe [HS08]. safety [FF08]. Salomaa [AFI98]. sam [Pik00]. Samples [GZ94, ST96b, Tak94, Kin91]. Sampling [GPR95a, Lut02, Vis91, WSW16, CGR93, Vis90, ZHWW12]. San [ACM92c, ACM92b, ACM93b, ACM95a, ACM95b, DT87, IEE94b, KP15, Sto92, USE92]. SAR [B+02]. SASL [LT90a]. Satellite [SS93a]. Saving [Bre93, Bre96, GS80]. Scalable [ARS16, BAC12, BBHK14, BTC06, HSL10, LT16, MT14, VWR11, YP13, ZLN11, AB09, BGFK15, KTP10, TLL09, VW11, WL15b]. Scale [LP13, LYWL08, TZY14, WHZ+17]. Scaled [BEL04]. Scaling [HW12, MS01, YDB15, ALV92, HLN09]. Scan [MII17, Gre88]. scanner [Hu84, ISHY88]. Scanners [HKR92]. scanning [CW10, HFT+08]. Scenes [BZ98, BS+07]. scheduling [LMMN07, Mid98]. schema [IK908, MNS07, dLFM07]. Schemas [BGNV10, MNS10, KS07]. Scheme [Bur84, Man94, Man97, Bar82, Kod79, KRL87, LH13]. Schemes [KK08, PLS77, QWX+13]. School [Cro92a, A097]. Science [ACM89, FJ92, IEE89, IEE90, IEE92, IEE93, IEE95a, IEE97, IEE98, IEE99, Gus97, Ker04, Win78]. Scientific [WCM+94b, WCM+94a, WZS95]. Score [Ben94]. Scoring [KK08]. Scotland [AV9+99]. Scottsdale [KLB12]. Scratchpad [JT94]. screening [QPWH08]. Scrimshaw [Arn93]. Scripting [Fri97b, RB05, BFN+09, Bl08, FhDAF09, Han01, LS99]. ssc [Sar02]. Search [AC75, Ber00, BK93d, Cal00, EF13, FG98, G99, KR94, Lut02, Man86, NR99a, NR01, Pol01, SED14, SB09, Sun90, WWW+16, YYYY16, YDB15, Zha07, ZGS+15, AB09, BC13a, BC06, FG95, FG99, GHK14, JRV96, NR02, QLY07, Tan14, Th08, YHV+15, Cox12]. Search-Space [ZGS+15]. Searches [GN01, MT14, Fen01a, KS08, MW92b, SM15]. Searching [BS97, BM77, CC97, CCL87, Dav73, EF95, GDN93, HS91, Man94, Man97, Nav01c, Nav04a, NR04, TT82, ZMSN93, AEMS14, BY892, BYG96, Bar84, CD96, CEMW91, HKN01, Hua05, Mua05, Mus05, Owo93, Per94, Rys80, SNZBY00, WL15a, WM92a]. Seattle [ACM74, ACM98]. Sebastopol [A097]. Second [ACM83, ACM90, ACM90b, Dow91, TPT13]. second-order [Dow91, TPT13]. secondary [BA15, MP05]. Sections [DCM15]. Secure [BEM+12, BEM+13, EF13, HT14]. Security [HL10, MW94, Rei03]. seed [CCI+13]. Seeded [LPR+08]. Seeds [Zha07]. segmentation [IK08]. Segments [EIV04]. Seiki [SM04]. Selected [Cro92a, M0064]. Selection [Bon07, Gie90]. selectivity
[ACM92a, ACM93a, ACM94a, ACM95a]. Similar [IK83, HKN14].

Similar-String [IK83]. Similarity [CM94, MU02, AK09a, BSY00, IIO8, JLFL14, QWX+13, TP07a, TP07b, WLF14]. Simon [Han93]. Simple [AR00, Bra94, BGM13, Cox07, Gau12, GL89, IST05, MNS07, Mut00, CLS95, Eck89, Fia88, FHP92, IKX15, IIS6, NBY99c, Pet07]. Simpler [CH02].

Simplicity [Wol90a, Wol90b]. Simplified [FYJ+07]. Simulation [B¨O13, FYJ+17]. Simulations [IKX15]. Simultaneous [PS93a]. Single [AAB+86, Bra94, BGM13, Cox07, Gaw12, GL89, IST05, MNS07, Mut00, CLS95, Eck89, Fia88, FHP92, IKX15, IIS6, NBY99c, Pet07]. Simpler [CH02].


Speeding \cite{FL12b,JGZL12,LK90,VCS12,LK88,TLLO7,ZYX12}.

spelling \cite{AB89,BSY00,TAIY90}.

spelling-correction \cite{BSY00}.

Speeding \cite{CCG94,Deo06,SKF00,ACF05}.

spelling \cite{AB89,BSY00,TAIY90}.

spelling-correction \cite{BSY00}.

SPIRIT \cite{GRS99}.

Split \cite{KKK11,TBS06}.

Splitting \cite{RTTO2b}.

Spreadsheet \cite{GH12,SG16}.

spreadsheets \cite{BGHZ15}.

Spring \cite{Ano87}.

Springer \cite{Neu10}.

SQL \cite{BJK12}.

Spring \cite{ACU83,CIK98}.

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Split \cite{IB11,TLLO7}.

Splitting \cite{RTT02b}.

Spreadsheet \cite{GH12,SG16}.

spreadsheets \cite{BGHZ15}.

Spring \cite{Ano87}.

Springer \cite{Neu10}.

SQL \cite{BJK12}.

Spring \cite{ACU83,CIK98}.

Springer \cite{Neu10}.

SQL \cite{BJK12}.
BFG09, BFP +08, BG90, BG91, BCT93, Bre94b, Bre95, Bre96, BGM13, Bur82].

string
[BEL04, CCF13, CL90, Cha93a, CDDM05, CW13, CR87, CH92, CGG90, CD96, CM07, CGR99, Dai09, DR06, Deo06, Der95, DC94, DHPT10, FL13, Fen01a, FG95, FMdB99, FG99, FMA05, Fre03, FN04, FM06, Gal75, Gal76a, GS81a, GS81b, Gal84, GG86, GG87, Gal92, GPR95b, GBY90a, GBY90b, GF08, GL89, GV00, GHK14, Han93, HY92, HFS05, HR03, HH93b, HM00, HLS +11, HK77, HHL10, HF05, Hyy08, IP96, IMS97, Ind98, IS90, II08, JL93, Joh95, JU91, KST92, Kim99, KWL07, KNT11, KS96, KST16, LV86a, LV86b, LV89, Lar99, Lec07, Liu81, LHCK04, LT97, LLL13, Mae90, MNU05, MBY91, ME97, Mha05, MM03, MM07, Mis03, MS95, Mus03, Mus05, Mye99, Nak14, NBY99c, NR00, NKT +01, Nav01a, NF04, NT05, NC06, Ne06, NC92, PPL10].

String-Manipulating
[VMM15]. String-Matching
[BG14, CCG +94, GS80, Gal95, Kha16, Les94, LY66, Moh97, Mut97, SL88, SL89, CH04, Cro92b, BR09, CCF13, CW13, CR87, CGR99, DR06, Gal75, Gal76a, GS81a, Gal92, GPR95b, HY92, HR03, JL93, KST92, LHCK04, PLL10, TBS06, Ukk92, Ukk93, dBR3].

string-pattern
[Kim99]. string-searching
[Mha05, Ryt80].

string-similarity
[BSY00].

string-to-dictionary
[Mae90].

stringdist
[van14].

Strings
[Ale94, BS97, BCFL12, Chu95, Col94b, FT98, Gaw13, GNU94, GL01, ISNH94, KRS95, KRS97, KMP77b, LT03, Lut02, SW09, Ver92, YQW +16, ADR03, ADR06, BLS03, BFK +03, BC95, CD89, CR91, EH88, ET98, FT95, GO12, Gus97, JRV96, KGA +12, KMP94, KMP77a, KR97, LMM17, LS10, Mcl04, Mei15, NR02].

Strongly
[Dur94]. Structural
[BG01, KWLL08, Shi00, Shi04, BFS00].

Structure
[CGR02, Gia93, Les95, Pol13, SL88, TMV +01, AP90, CRR03, CD96, FG99, FLSS93a, FLSS93b, KLW07, MLP05].

Structured
[BLLW12, KM94, BGHZ15, Fla88, TMK +02].

Structures
[Cha01, Cha02a, GHLW15, GG97, Gor00, LSW08, Lar99, Lec98, Les79, ABH +14, BA15, GMC02, HN90].

Studies
[JM85, SM56, SM74, SS93a].

Sublinear
[CL94, FG98, CL90, CZW10, CRR99, FG95, WZ96].

Sublist
[Jay92].

Suboptimal
[Cha94, LS94].

Subquadratic
[WMM95].

subsequence
[ZKA12].

Subsequences
[IF94].

Subset
[CH03, Kin92, Pag78, AB09, CH97b, HW09].

Substitution
[For02, JSC83, Sch81].

substitutions
[Pie08].

Substring
[CIL +03, Har71, Joh94a, Sun90, BSTU08, Gra15, HKN14, IKX15, JKNS00,
Maa06, MAI+16, Sto02. **substring-preprocessing** [Sto02]. **Substrings** [Cob94, Boo80, FGKU15, LO94]. **subtree** [Gro91a, Gro91b, Mäk89].

**Subtype** [WZJH12], **subtypes** [JM93]. **Succinctness** [Gei10, GN12]. **sufficient** [KT90, MR09a]. **Suffix** [AOK02, ABM08, FL12a, GV05, GLS92, Kid09, LSW08, NR98, Neu10, OR12, Shi00, Shi04, UW93, ACFC+16, BH96, DK13, FCFM00, GV00, HHL06, Kos94, NR00, TTHP05, Ukk93]. **Suitable** [CCL87].

**Summary** [GH15]. **Sums** [BM00]. **Sup** [MP09]. **Supporting** [CMW87], **supports** [Nil90]. **Survey** [Brz62, Kn89]. **Surveyor** [Fra83, GHF83a, GHF83b, WNL+83]. **Swap** [AEP06]. **Swaps** [ALLL98a, AAL+00, CCFG12, AAL+97a, ALLL98b, Mei15].

**SWAR** [CL09]. **Symbolic** [ACM94b, Bro93, Cha86, Har79, Lev95, Ng79, VHL+12, WNL90, Fat15, Nic03, NA90, Ng79, NEH90]. **Symmetric** [Gil70, SS93a]. **Symmetries** [Hig86]. **symmetry** [Mar89]. **Symposium** [ACM69, ACM74, ACM76, ACM81, ACM83, ACM84, ACM86, ACM87, ACM90a, ACM90b, ACM91, ACM92a, ACM92b, ACM92d, ACM93a, ACM93b, ACM94a, ACM94b, ACM94c, ACM94d, ACM95a, ACM95b, ACM95c, ACM97b, ACM97c, ACM98, ACM99a, ACM99b, ACM00, ACM06, ACM07, ACM08, AP10, AH97, AT02, Bro93, Cha86, DGBH93, FC98, FL98, FJ92, GM11, HM96, Hwa85, IEE89, IEE90, IEE92, IEE93, IEE95a, IEE97, IEE98, IEE09, KS12a, CU09, Len93, Lev95, LV06, MO7, Ng79, WN90, WNL90, AL01, APO92, AP093, ACP05, BYCC03, CG94b, GU95, GS00, KLB12, Len11, PC99, SMD04]. **Symmac** [Cha86]. **synchronization** [JM90]. **Synchronized** [PIT+03]. **Synonyms** [LLW+15]. **Syntactic** [KS01, 17, 2000, Wol86]. **Syntax** [BLS+94, AG06, Chl08, Pie08, ZGE85, Zel08]. **Synthesis** [CDL+15, BK86, SW12, WK09, ZJL14], **synthesized** [Kod79]. **System** [BM00, CFSt+89, DMWW77, Har79, IEE01a, IEE01d, IEE01c, IEE01b, KSWC93, KMT+01, KKS01, MM02, SF01, Som82, WHZ+17, WNL96, AAB+86, BAC12, BH07, GPTV93, KAT07, KMS+03, KLR+08, LHCK04, MI07, TIA90, WGO92]. **Systematic** [KK95, Nar08]. **Systems** [ACM83, ACM90a, ACM92b, ACM94c, ACM95b, ACM97a, ACM98, ACM99a, ACM06, ACM07, Ano08, Dur04, FYJ+17, GHW05, IST05, JMS5, KKK11, Kor83, LZ96, Lut02, MUHT96, Mor83, Sat02, WHZ+17, CDC96, CFM00, DL01, Fat15, J097, KKK+05, KN00, KKP92, KEG+08, KLBI2, KR95, LLC03, Len11, SD91, WSS94]. **SystemT** [KLR+08].

**table** [GHS82]. **tables** [EF95, Mus05, Quo92]. **tagged** [Lau00]. **Tagging** [Kul11, KEG+08]. **Taming** [Hab04, KSH+15]. **target** [QLY07]. **TASH**
their
[Brz62, CJM12, Gim73, HN05, MHKR12, OF61, RS59, BRL13, GR92, KSVJ15, Lau00, NEH90, Pel87].
Theorem [WZU14].
theoretic [Pie08, Sri93].
Theoretical [CL92, FJ92, MAC14].
Theorie [SM74].
Theory [ACM69, ACM74, ACM76, ACM81, ACM84, ACM86, ACM90b, ACM91, ACM92d, ACM93b, ACM94d, ACM95c, ACM97c, ACM99b, ACM00, ACM08, AU72, AU73, Gim73, Lut02, Pet92, SW98, AFI98, Bak93, Han02, HR00, SBR+07, VVV04].
third [ACM91, AGS93d, Apo92].
Thirteenth [ACM81, ACM94c].
thirtieth [Len11].
Thirty [ACM00, ACM99b].
thirty-first [ACM99b].
Thorn [BFN+09].
threaded [MAC14].
Threading [OR12].
Three
[Cha02a, GPP04, HEWK03, KR94, Les79, Les95, de 82, AK08].
Three-Dimensional [GPP04, HEWK03, Les79, Les95].
threshold [BSTU08].
thresholds [AD11, ZA17].
Throughput [BTC06, LPT12, TS05, LH13, LMMN07].
Thue [KKM+85].
TIG [Mu 95, MuT95, Mun95].
Tight [BCT93, Col94a, SV87].
Tighter
[CH92, CHPZ95, CH97a].
Time
[BC13b, BGG12, BG14, C1920, CF85, CH03, CR95b, CGPR95, CGG+97, CGH+98, FG98, Gal79, Gal81, GS81b, Gal95, GP01, GP03, HM98, ISNH94, KU99, LKL02, MHT09, PRU11, Sl78, Sli83, Sto96, WBA83, BG90, BGM13,
CL90, CH97b, CD96, CGR99, EH88, FLMt/10, FG95, Gal75, Gal76a, GS81a, Gal92, GPR95b, GF08, GFG11, GMS12, HKN14, IKX15, IP96, Kos94, KRL87, KKRt/13, Liu81, RP95, Rep98. Time- [BC13b]. time-optimal [IKX15]. time-sliced [KRL87]. time-space [GPR95b].


Tokenization [Kul11, Sca11, Rep98]. Tokyo [IEE94a, WN90]. tolerant [WLF14]. Tool [PoI01, WM92b, Ier09, KOI94, Nav01b, NT05]. Toolkit [Lut02, VV04]. Tools [Lut02, PPA10, CGM06, Fri97a, Han02, Ano97a]. Top [Sca11, FWW13a, OSM94]. top- [FWW13a]. Top-Performance [Sca11]. Topological [DA89, Fu97]. Topologies [VGL01, NCV10]. Topology [ZJL14, MCFt/11]. Topology-constrained [ZJL14]. tour [Nav01a]. toys [Il09, MI07]. trace [ATdM07]. Track [LT03]. tracking [Joh94a, SHS14]. tractable [Lei85]. Trade [Abb94]. traffic [BBK12]. Transducers [Cro86, Moll94, EHS07, Gaa04, GHRt/16, VHLt/12]. Transform [ABM08, Neu10, TZYH14, ZMAB03]. Transformation [BCCt/13, Gro92, Kha16, AK08, EHS07, GT90, KO66]. Transformational [PV91, PS90]. Transformations [ADR15, DN77, JM90, KC87, SDm01, AK09a, Arn93, ETV88, RTt/89, SG12, dLFM07]. transformed [AMBt/02]. Transforming [SG16]. transit [BWG12]. transition [CW13, GT90]. transitions [Lau00]. Transitive [AS85, LH03]. Translating [HSW97, Rev91]. Translation [AU72, AU73, Ver70b, Ver70a, Rot91, TZYH14]. translatable [Man06]. translocations [GFG11]. Transmission [Joh90]. Transposition [LT03, MNU05, Deo06]. transposition-invariant [Deo06]. transputer [CEMW91]. traversal [NRO12]. traversal-based [NRO12]. Traversals [Sto06]. Tree [AGT89, AM91, AYCLS02, Cha02b, Cha02c, CH06, CH97b, CH03, DGM94, FV16, GHLW15, JWW94, Kid09, KM94, KHL16, LPRt/08, MS98, RR90, Sh100, Sh104, Sto96, BDB90, BTG83a, BTG83b, Cgr03, Cha87, CLS95, DF00, DGM95, EOS07, FCMF00, Far92, FG99, KS11a, Kos89, Mal93, SGM00, Vou06, Cgr02]. Tree-Like [GHLW15]. tree-manipulation [Mal93]. Tree-Structured [KM94]. tree-walking [EHS07]. Trees [BYCMW94, BC02, GHLW15, G093, Gro92, GV05, HO82, JWW94, RR92, SCFC94, Sim83, ACFCt/16, CPT92, Gro91b, GV00, GuS97, JRV96, Kos94, Mªk89, TTH05, Ukk93, Ver92]. Triangle [IEE98]. Tricks [Abb94]. Trie [CCH09, GO12]. tries [BYG96]. Trigram [Cox12]. Truly [GP92]. Tucson [ACM97a, Apo92]. Tumor [WZJH12]. Turing [GOMSJVGP08]. Turkey [SMD04]. Tutorial [Lut02]. Twentieth [ACM93a]. Twenty [ACM06, ACM07, ACt/01, AOVt/99, Bt/02, ACM09b, ACM09c, ACM92d, ACM93b, ACM94d, ACM95c, ACM97c]. Twenty-Eighth [Bt/02]. Twenty-Fifth [ACM06, AOVt/99, ACM93b]. twenty-fourth [ACM92d]. twenty-ninth [ACM97c]. twenty-second [ACM90b]. Twenty-seventh [AACt/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,
CGH+98, CIK98, FU98, FNU02, Gal76b, Gia93, HY92, HW12, JSC83, JU91,
KPR00, KU99, LY86, Mid96, Ott94, Par96, She59, TIT83, ZT89, AK08,
ABF94b, AKT06, AGM05, ADLM01, BYR93, Bar84, CK02b, CP10, CCG+93,
CR94, GP92, HY90, HLN09, KLW07, dSOMY15, Par98, Rot91, SN94]. Two-
[KU99]. Two-Dimensional [ABF94a, ADLM96, BYN98, BKLP97, CL95,
CHLT14, CR92, CGPR95, CGH+98, CIK98, FU98, Gia93, HW12, KPR00,
Par96, ZT89, AF92, ABC+04, CGR93, Mid96, TIT83, ABF94b, AKT06,
AGM05, ADLM01, BYR93, CR94, GP92, HLN09, Par98]. Two-Head [LY86].
Two-Level [JSC83, KWL07, dSOMY15]. two-patterns [CP10]. two-point
[Rot91]. Two-Sided [CDJM15]. Two-Way [CP91, She59]. Type
[JM93, Sou99, Van06, FF08, JO97, Nil90, Pie08]. type-theoretic [Pie08].
Typed [JP11, Xi03, Dow91]. Types [FR00, Pre99, BC93, CGPS13, GLS07,
GPN96, HVP00, HVP05, JD89, KS93, Kra88, dSOMY15, OR11, SG16, Vou06]. typeset [San95]. typing [FhDAF09]. Typography [AGS93a, AGS93c, AGS93d, AGS93b].

UK [AOV+99, PC99]. Ukraine [Bro93]. Unambiguity [BK93a, BK93b].
Unambiguous [BK92c, Pre99, SH85]. Unavoidability [Hei01].
Unbounded [Bre94a, Nil90]. uncovering [Edw07]. Undecidability
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[Kn98, Wa88, DRSS96, OND98]. Unified
[BY96, Tar81b, DLF+15, GW92, Tak96a]. Uniform [Bre94a].
Uniform-Length [Bre94a]. Unifying [Wol90a, KMS+03, MZZ10, Wol90b].
unique [AG84, IKX15, Van06]. Unit [Les94]. Universal [PS10, CDM05].
University [Ano97b, Hwa85, PC99, HWF90]. UNIX
[Ano92a, Qui02, Fri97b, Hol84]. Unix-Like [Hol84]. UnQL [BSF00].
unrestricted [Lei85, Leu97]. Unstructured [Gon83]. Unsupervised
[WWW+16]. UPaK [WKR09]. Update [FG98, FG95]. updates [Che08].
Upper [CH97a, GG92, Les94]. Urbana [Hwa85]. USA
[ACM06, AP10, Apo92, BGNP94, CG94b, FC98, KP15, SC04, SM09, SM11,
DGBH93, FMA02, IEE09, KLB12]. Use [IY02, CC97, WSS94, YIAS89].
used [Sch91a, Sch91b]. Usefulness [CR91]. USENIX [USE92]. users
[BJK+12]. Using
[AGT89, BYCM04, BCP02, Bow87, BK93d, BZ98, CF85, CHP92, CFM00,
CW84, Cop91, Dav73, GHK+91, Gro92, GL86, GHS2, HEWK03, How97,
JMS85, KKK11, Kin89, LSW08, LLLL08, LLCC13, MS98, Mar89, MUHT96,
MPN+14, Mei15, Mu 95, MuT95, PAMP12, Rez92, SBHM94, Sch95, STSA99,
SpI99b, ST95, TMV+01, TB00, WZJH12, WBA83, Yun12, ZGY+16, AG06,
BSY00, BDB90, BGHZ15, BBKH14, BWG12, CPW88, CP97, CEMW91,
FL71, GS81a, GHS12, GS06, HM00, HHLS06, II08, JLBH92, JSH09, KAT07,
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