

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

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## Title word cross-reference

$(l, d)$  [Tan14]. <sup>1</sup> [Mun07]. <sup>2</sup> [ASG99, BSM<sup>+</sup>07, BZ98, CR95b, KPR97, KD15, LT90b, SHCY93, Via02, Via04]. **\$29.95** [Ano97a]. <sup>3</sup> [BSM<sup>+</sup>07, CJ93, LT90b, TCCK90]. **\$65.00** [Ano97b]. <sup>(1)</sup> [Sid99, Sid02]. <sup>2</sup> [Ram94]. <sup>33</sup> [BGFK15a, BGFK15b]. <sup>4</sup> [ZLN11].  $m$  [Jan23].  $U$  [Jan23].  $c$  [WD99].  $c^n$  [Rob79].  $D$  [Sid99, CGK08, CDEK95, GKP19, dRL95].  $d^{(1)}$  [Sid95, Sid00].  $\delta$  [CIL<sup>+</sup>03].  $\epsilon$  [Gef03, HM98, HSW01, Lif03].  $\text{GREP}^{(1)}$  [Sid00].  $K$  [COZ09, LVN87, ATX21, ALP04, CLZ<sup>+</sup>15, CKP<sup>+</sup>21, CW18a, CW18b, CN21, FWW13a, FWW13b, FGKU15, GG86, GU16, GN19, GGF13, Gra15,



GL89, HT17, JL93, JL96, JN24, KRS19a, KRS19b, KRS23, K VX12, LV88, NYuR15, NR17, QQC<sup>+</sup>13a, QQC<sup>+</sup>13b, WD99].  $L_1$  [LP08, LP11].  $L_2$  [LP11].  $L_\infty$  [LP11].  $L_p$  [WC14].  $\mu$  [DJ96].  $N$  [ML96a, ML96b, KST94, KWL07, KWLL08, Wag74].  $O(\text{mod } T \text{ mod } 3)$  [KKM<sup>+</sup>85].  $O(\log \log n)$  [BG90].  $O(n^2 \log m)$  [CNS18].  $O(n \lceil m/w \rceil)$  [GF08].  $O(n \log^2(n))$  [HM98].  $O(n \log^3 m)$  [CH97b].  $O(n \log n)$  [Gef03].  $O(s^2)$  [CZ01].  $\omega$  [BdFED<sup>+</sup>20, EJ23].  $\omega^n$  [Cho78].  $\omega T$  [BdFED<sup>+</sup>20].  $q$  [HKN14, KB22, KPA10, STK06, Sal12, ST95, ST96b, ST96c, ST04, Ukk92].  $r$  [Pol13].  $\rho$  [CFK07].  $t$  [Liu14].  $x^m y^n = z^p$  [NC92].

**-automaton** [COZ09]. **-bit** [K VX12]. **-calculus** [CFK07]. **-Cube** [ML96a, ML96b]. **-D** [SHCY93, BZ98]. **-dependent** [Jan23]. **-Dimensional** [CDEK95, CR95b, KPR97, CGK08]. **-dimensions** [dRL95]. **-expression** [COZ09]. **-formulae** [WD99]. **-frame** [KB22]. **-Free** [HM98, HSW01, Gef03, Lif03]. **-Gram** [ST95, HKN14, KST94, KWL07, KWLL08, KPA10, Sal12, KWL07]. **-Gram/2L-approximation** [KWL07]. **-Grams** [ST04, STK06, Ukk92]. **-Interval** [Via02, Via04]. **-Like** [HK11]. **-M** [Ram94]. **-Matching** [CIL<sup>+</sup>03]. **-means** [WD99]. **-Mismatch** [ATX21, JN24]. **-mismatches** [GGF13, Gra15]. **-motif** [Tan14]. **-norm** [WC14]. **-Regular** [EJ23, BdFED<sup>+</sup>20, BdFED<sup>+</sup>20]. **-Samples** [ST96b, ST96c]. **-Separated** [Pol13]. **-Statistics** [Liu14, Jan23]. **-tapes** [Cho78]. **-time** [CNS18]. **-TM** [BGFK15a, BGFK15b]. **-transformation** [Sid95, Sid99, Sid00].

**.NET** [AS04, SM04, Stu07].

**'08** [ACM08].

**1** [KJS17]. **1003.1-2001**

[IEE01a, IEE01g, IEE01e, IEE01c, IEE01b, IEE01h, IEE01f, IEE01d]. **10th** [PC99]. **11th** [GS00, Kap92]. **12th** [AL01, Bun94]. **13th** [AT02]. **14th** [AAC<sup>+</sup>01, BYCC03]. **15th** [SMD04]. **16th** [ACP05]. **17th** [LV06]. **18th** [MZ07]. **1969** [ACM69]. **1971** [FGR72]. **1974** [ACM74]. **1976** [ACM76]. **1978** [Win78]. **1979** [Ng79]. **1981** [ACM81]. **1984** [ACM84]. **1986** [ACM86]. **1987** [DT87]. **1990** [ACM90b, Cro92a, NEH90]. **1991** [ACM91]. **1992** [ACM92a, ACM92c, ACM92d, Sto92]. **1993** [ACM93a, ACM93b]. **1994** [ACM94a, ACM94d, SW94]. **1995** [ACM95a, ACM95b, ACM95c]. **1997** [ACM97b, ACM97c]. **1999** [ACM99a, ACM99b, AOV<sup>+</sup>99]. **19th** [ABB93, FL08].

**2001** [AAC<sup>+</sup>01]. **2002** [B<sup>+</sup>02]. **2004** [SC04]. **2005** [SC05]. **2006** [ACM06]. **2007** [ACM07]. **2008** [ACM08, LL08, Neu10]. **2011** [NH11, SM09, SM11]. **20th** [KU09]. **21st** [ACM94a, AP10]. **22nd** [ACM95a, GM11]. **23rd** [KS12a]. **27th** [KP15]. **2L-approximation** [KWL07]. **2nd** [OND98]. **2nd-order**



[OND98].

**3** [Ruc15]. **3.0** [BWN08]. **30th** [IEE89]. **31st** [IEE90, KLB12]. **32** [Gro91a]. **33rd** [IEE92]. **34th** [IEE93]. **36th** [IEE95a]. **38th** [IEE97]. **39th** [IEE98].

**4** [Ano12, Bro77]. **40th** [ACM08]. **4th** [Apo93a].

**5** [B<sup>+</sup>05]. **50th** [IEE09]. **5PM** [BEM<sup>+</sup>12, BEM<sup>+</sup>13]. **5th** [CG94b, NH11].

**6** [IEE01a, IEE01g, IEE01e, IEE01b, IEE01h, IEE01f]. **68** [HK77]. **6th** [BGNP94, GU95].

**7** [Rob99a, Rob99b]. **'79** [Ng79]. **7th** [DMVT13, 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<sup>+</sup>94, SW94]. **'95** [ACM95a, ACM95b, IEE95b, Lev95, SC95]. **'96** [SC96]. **'97** [ACM97a]. **978** [Ano12]. **978-1-4493-1943-4** [Ano12]. **'98** [ACM98, SC98]. **'99** [SC99]. **9th** [FC98, FJ92].

**A-DFA** [BC13b]. **A.** [AFI98, Pet95]. **Aarhus** [AH97]. **absence** [AGH<sup>+</sup>17]. **absolute** [ZZJC20]. **Abstract** [CDL95, Gon02, HOS85b, JO97, LM02, Pre99, AG06, BC93, Chl08, CM95, GPN96, GV00, HOS85a, Pie08, Zei08]. **Abstracting** [JSH09]. **abstraction** [Wad87]. **Abstractions** [Jok90, MNS07]. **Accelerated** [ZCH23, BYB<sup>+</sup>24, MLC08, SR16]. **Accelerating** [BBK12, GÁSÁ<sup>+</sup>13, KBN09, LLCC13, LLL<sup>+</sup>24, TT82, VSP08]. **Acceleration** [GWX<sup>+</sup>23, SALP20]. **Accelerator** [JLK<sup>+</sup>20, KYG19, TT22, TLC15, WGL<sup>+</sup>21, ZL18, TLLL09]. **Accelerators** [HKL<sup>+</sup>14, LHMH91, MGW14]. **acceptors** [TIT83]. **Access** [Fal85, JDXD13, MR11, JSH09, KT14, KCK93, KFG15]. **accesses** [DSv94]. **accessible** [SBR<sup>+</sup>07]. **According** [PV91]. **account** [Fil21, KSVJ15]. **Accurate** [BAM<sup>+</sup>24, ZS17, STKD20]. **achieve** [AK08]. **Acid** [CCL87, LVN87]. **ACM** [ACM69, ACM74, ACM83, ACM84, ACM86, ACM87, ACM89, ACM90a, ACM90b, ACM91, ACM92a, ACM92c, ACM92b, ACM92d, ACM93a, ACM93b, ACM94a, ACM94c, ACM94d, ACM95a, ACM95b, ACM97b, ACM97a, ACM97c, ACM98, ACM99a, ACM99b, ACM00, ACM06, ACM08, DGBH93, FMA02, HF13, KLB12, LL08, Len11, SW94, Sto92]. **ACM-SIAM** [ACM97b]. **ACM/SIGAPP** [DGBH93]. **Acquisition** [BZ98]. **across** [DCM15, SHS14]. **action** [Han92]. **actions** [CK08]. **ActionScript** [BWN08]. **active** [BDMT16]. **activity** [BWG12]. **ActorSpace** [AC93]. **Ada** [Wes97, TBD22, Wes97, WT88, WT89]. **Ada/Tcl** [Wes97]. **Adapted**



[RJK79]. **Adapting** [CFG12, DS04, LRV13]. **Adaptive** [CW84, JP73, LDI98, NdMM02b, SRR92, SRR95, SW09, HRN<sup>+</sup>15]. **Adding** [Sha88b]. **Addition** [PP06]. **address** [AAK<sup>+</sup>09, AAB<sup>+</sup>09, AEK<sup>+</sup>11, ZZJC20]. **addressable** [LMT16]. **Addressing** [RJK79, Lau01]. **Adjacencies** [LJZZ13]. **Adjeroh** [Neu10]. **Administration** [Sar02]. **Advanced** [B<sup>+</sup>07]. **Adversarial** [TD18]. **Adversaries** [HL10, HT14]. **Advisor** [Mu 95, MuT95, Mun95]. **Affine** [DN77, VS01]. **affordable** [NE93]. **afind** [GN01]. **Against** [Bun95, HL10, LA12, AV23, BSTU08, MPW21]. **Aggregations** [CvW18]. **aggressive** [Dai09]. **Agrep** [MW92b, GN01, WM92b]. **Ahead** [Yan95, ZBST14]. **Aho** [CW13, NK07, PLL10, RKM21, TM05b, TZh<sup>+</sup>13, TVCM12]. **Aid** [AC75]. **Aided** [KP15]. **Alberto** [Ano97b]. **Albuquerque** [ACM92a]. **Algebra** [KN12, LRSV18, SS93a, BFS00, Co086, Fat15, KMMPN85]. **Algebraic** [ACM94b, Bro93, Cha86, Hea71, Lev95, McI85b, Ng79, WN90, BD98, Fat15, McI85a, OR11]. **Algebras** [CM95]. **Algol** [Bro77, HK77]. **Algol-based** [Bro77]. **Algorithm** [AR00, ATX21, HR02, AJS92, ACD01, BST<sup>+</sup>03, BYKZ<sup>+</sup>92, BYN96, Bar81, BC13b, Ben94, Bir10, BM77, Bra94, Bre93, BL16, CF06, CLP98, CF85, Col94a, CH02, CGH<sup>+</sup>98, DNM00, FL12a, Gal79, GP90, Gal95, GC01, IMP01, IST05, IS86, KRS97, KST94, K  l10, KV15, KZ02, LY17, LLCC13, LJH<sup>+</sup>17, LLC17, LDI98, LJZZ13, LCL06, Man75, MW94, MR11, MUHT96, McC76, MOSZ18, MNS84, ML96a, ML96b, Mye92, Mye98, NBY01, Nel96, OR12, PS10, Pou93, PK85, Rai92, RKM21, RPE81, Sad96, Ski98, Smi91b, Smi94, SW09, Sun90a, Sun90b, Tak86a, Tak86b, VB12, VB98, WPKL13, Wat96, WT89, WMM95, Yam01, Alb89, AR13, AGW13, BYR92, BPMA02, BGJ89, BBM21, BG90, Bre96, BC95, Cha93a, CLS95, CW13, CDC96, CNPS15, CNS18, Col90, CR91, Dai09, DR06]. **algorithm** [DS04, Der95, Dow91, Gal92, GBY90a, GBY90b, GO80, GLS92, Han93, HFS05, HR03, IKX15, IP96, II86, ISHY88, IA80, KKM<sup>+</sup>85, KR89, KST92, Kim99, KKR<sup>+</sup>13, KIH15, LV86b, LVN87, Lec92, Lee82, Liu81, LHCK04, Maa06, MBY91, Men89, Mis03, MKSiA98, MS95, Mor90, Mye99, NRO12, Neb06, PLL10, PS90, Per94, Ryt80, SW90, Sch88a, SS94, SGYM00, Sto02, Tak96b, Tak93, TA90, TZYH14, TJD<sup>+</sup>17, TM05b, TU88, TTO<sup>+</sup>22, Tho68, TJMC20, WW03, Wat03, WT88, Yam19, YT03, YHV<sup>+</sup>15, ZC99, dB93]. **algorithmic** [Alb89]. **Algorithmic** [ABBH<sup>+</sup>16]. **Algorithms** [ACM97b, AHU74, ALR08, iA94, ADLM96, BY96a, BLP94, Bak96, BS97, BH02, BJM79, BCFL12, CFG12, CFP19, CL92, CL97, CHL14, Chu95, CHZ06, CLR90, CR92, CCG<sup>+</sup>94, DB86, FL12b, FMMS20, FRU<sup>+</sup>20, FBY92, Gal76b, GG97, GS85, GIG77, GK86, Gus97, HUN<sup>+</sup>19, Hig86, HSTS01, ISNH94, JTU96, KKP16a, KKP16b, KTU87, KR81a, KR81b, KR87, KP99c, Kha16, KMT<sup>+</sup>01, KTY<sup>+</sup>18, Lab12a, Lab12b, Lec95, LLLC17, LT16, LS94, Lut02, MR11, MP05, Med23, Mut97, Ott94, Par96, Pol13, RS98, SV94, SN92, Sed83, Sed90, Sed92, Sim94, Ste94, Tar81a, VG01, YD95, ZZ12, de 82, ALP04, Apo93b, AG97, ADLM01, ARS16, BYF96, Bak93, Bar84a, BYB<sup>+</sup>24,



CMO<sup>+</sup>08, CDDM05, CX20, CLT07, CWZ10, CCG<sup>+</sup>93, Col91, CT96, CR94, CL96, DC94, DV21, ECSS88, Gal75, Gal76a]. **algorithms** [Gal84, GG13, HIEH22, HR01, HOK18a, HOK18b, HTX17, Ind98, JHU<sup>+</sup>24, JU91, KB22, KN00, KM13, KM84, Lec07, MAC14, MW92b, Mha05, MM07, MR13, NR02, Par98, PDC94, PS88, QLY07, Sal12, Sch91a, Sch91b, SZ05, SN24, Tan14, THG17, Val09, VHL<sup>+</sup>12, WZ96, A<sup>+</sup>08, Len93, Ano97b]. **Aligned** [LSTW<sup>+</sup>17, SN94]. **Alignment** [BLP94, Ben94, BAM<sup>+</sup>24, BDFW94, HPM94, JWZ94, KK08, LPT12, LPR<sup>+</sup>08, Pol13, RND97, RFD23, CLT07, FSL<sup>+</sup>15, NT20]. **Alignments** [Cha94]. **All-Against-All** [LA12, BSTU08]. **Alley** [DNM00, Nel96]. **Allocation** [VSM87, YD95]. **Allowing** [FNU02, CCF13, WM92a]. **Allows** [Man94, Man97]. **Almost** [CGPS13b, GR99, FS13, LMM17]. **Almost-linear** [CGPS13b]. **Almost-optimal** [GR99]. **Alphabet** [AFM94, ABF94a, CR95b, KR94, KRR17, KMRY20, SJNS19, TP97, AFI98, AGM05, GP92, KMR21]. **Alphabet-Friendly** [SJNS19]. **Alphabet-Independent** [CR95b, KR94, GP92]. **Alphabet-Invariant** [KMRY20, KMR21]. **Alphabets** [Bre94a, CLP98, Fre02, KT06, KST12, NR21, Ris16, STK10, Cro92b, Fre03, YHV<sup>+</sup>15]. **Alternating** [BL16]. **Alternative** [Bar81, JWZ94, AP90, Fat15]. **Alto** [IEE93, IEE98]. **always** [LMM17, LLS<sup>+</sup>20]. **Amar** [Neu10]. **AMASS** [KS99]. **Ambiguity** [MGH93, SL17]. **ambiguous** [BBM21, NdMM02a]. **American** [NEH90]. **amino** [LVN87]. **Analyses** [KPP19, WHZ<sup>+</sup>17]. **Analysing** [HH93a, HH93b, HH93c]. **Analysis** [AHU74, AR13, AJS92, BBH<sup>+</sup>87, FO76, KR92, Les95, Liu88, LS94, Med23, Nip98, Par96, Par98, SJ13, SCFC94, SP16, Sca11, SWZ01, WCW82, Yan95, ZWH<sup>+</sup>21, DSv94, GLS07, GBY90a, GBY90b, HV93, KT14, MAC14, MP09, MLM<sup>+</sup>08, NA90, ORPF13, PIR17, PM23, SW93, Sid95, THQ19, TPT13]. **analyst** [ZV97]. **analytic** [SHvR<sup>+</sup>16]. **analytical** [Bar84a]. **analyze** [CFM00]. **Analyzer** [LS79, ZGE85]. **Analyzing** [HSTS01, MR82, MNNS12]. **Ancestry** [FK16]. **Ancient** [SP16]. **ands** [Edw07]. **animate** [BYF96]. **Annotated** [Sak21, GGN06, RH81]. **annotating** [AMRV16]. **annotation** [YCJK08]. **Annual** [ACM81, ACM87, ACM92a, ACM93a, ACM97b, ACM00, ACM08, AP10, AH97, AT02, FC98, FL08, FJ92, GM11, HM96, IEE90, IEE92, IEE93, IEE95a, IEE97, IEE98, IEE09, KS12a, KU09, Len93, LV06, MZ07, NEH90, ACM74, ACM76, ACM84, ACM86, ACM89, ACM90b, ACM91, ACM92d, ACM93b, ACM94d, ACM95c, ACM97c, ACM99b, AL01, Apo92, Apo93a, ACP05, BYCC03, CG94b, DT87, GU95, GS00, IEE89, IEE95b, PC99, SMD04]. **Anomaly** [GKW<sup>+</sup>10]. **Answer** [KKSL01, ADT15]. **Answering** [CJR<sup>+</sup>21, KKSL01, ZCÖZ12, AL08, CDL08, CKC07]. **Answers** [GN19, Ano92a]. **Antidictionaries** [STSA99]. **Antisymmetric** [Gil70]. **Antonio** [IEE94b]. **Ants** [FR17, Joh01]. **Any** [Bur11, PW93]. **Apostolico** [Ano97b]. **Application** [AV23, GPP04, GT90, Hud89, IK83, MKF91, MGW14, NA90, WKA94, Akl78, CFK07, Fat15, GÁSÁ<sup>+</sup>13, Lau00, Man76,



MW94, MM03, PA10, SHS14, Sid95, Sid99, TIAY90, WKR09, dLFM07].  
**application-database** [SHS14]. **application-specific** [WKR09].

#### **Applications**

[Bak96, BM00, Brz62, CL94, DMVT13, FK16, Gia93, GV05, HSTS01, Hui92, HN05, IEE94b, IEE95b, IIK08, MHKR12, NR03, Pol13, Sch95, AS04, Bak93, B<sup>+</sup>07, Che96, CX20, FMdB99, FG99, FLSS93a, FLSS93b, GV00, Ind97, Jan23, KKP92, RTO15, Sid00, SVM14, SR16, SWZ01, SALP20, VHL<sup>+</sup>12, WYA<sup>+</sup>07].  
**Applied** [DGBH93, PDL98, DGBH93]. **Applying** [AK08, SdM01].

#### **Approach**

[ABF94a, CFM17, CCH09, Cox09, DC94, FKR15, FL12b, GN19, IMR08, KTSA99, KS99, LP13, LN19, Lut02, NR98, NR99b, RM88, Reg92, Sha93, Tar81b, AP13, B<sup>+</sup>05, BYG92, BSTU08, BG91a, BCD14, BYK22, FS22, FMdB99, GPR95b, GW92, Goo05, HLN09, KD15, LBK08, LMS21, MF96, Mus03, dSOMY15, PP85, PSK17, SVS97, SD91a, SD91b, SSL21, Sri93].

#### **Approaches** [BM08, vNG01, FBMA05, MR13]. **Approximate**

[Aku94, Aku95, AAK<sup>+</sup>09, AEK<sup>+</sup>11, ACD01, BYP92, BYN96, BYN97, BYN98, BYN99, BCP02, BH02, BPPR20, BM00, BK93g, Bun95, CJM12, CLS<sup>+</sup>10, CL90, CL92, CM94, CL94, CCH09, CN02, CH02, CIM<sup>+</sup>02, EMC96, FPT22, FNU02, Fre06, Fu96, GP90, GIMV03, GGF13, HD80, HLS07, HT17, HM00, HHLS06, HN02, HN05, IMP01, JTu96, KYG19, KM92, KM95a, KST16, LSW08, LH03, LP11, LLW<sup>+</sup>15, MW92a, MW92b, Mel95, MM02, MIH17, MM96, MM89, Mye98, MOG98, Nav98, NBY99a, NBY99b, NBY01, Nav04a, NRS18, OM88, PMD01, Par96, PW95, Phi94, PP09, RNOM09, Sad96, STK10, ST95, ST96b, ST96c, ST04, TT20, Tak94, TU93, Ukk92, Ukk93, UW93, VRD01, Wri94, WM92b, WMM95, ZMAB03, van14a, van14b, AGW13, BYP96, BLPL92, BFG09, CRV06, DLF<sup>+</sup>15]. **approximate** [DC94, FCLST07, FS22, FN04, HOK18a, HOK18b, HLS<sup>+</sup>11, HTX17, HFN05, Hyy08, JU91, KST92, KWL07, KNT11, LV86b, LV89, LG16, LT97, LLL13, MW94, MM03, MM07, MBH20, Mus05, Mye99, Nak14, NBY99c, Nav00, NKT<sup>+</sup>01, Nav01a, NF04, NC06, Par98, Sad93, SY23, SW90, TLS16, WC14, ZA17, ZD95]. **Approximated** [PW93]. **Approximately** [Cob94, KRS19a, KRS19b, KRS23, Mye95]. **Approximating** [TY97].

#### **Approximation**

[ADLM96, ADLM01, BLP94, CM08, Huc21, LJZZ13, KR89, KWL07, TU88].

**April** [ACM74, ACM84, ACM90a, AGS93e, Apo92, DMVT13, SC93, SC96, SC98, SC02]. **Arabic** [JZAA19, Kul11, Mus03, Mus05, ZA87]. **arbiters** [SMT<sup>+</sup>86]. **Arbitrary** [Nav04a, WMGS19, YH92]. **arc** [GGN06].

**arc-annotated** [GGN06]. **Architectural** [CL09, GSL17, IS90].

**Architecture** [AWD<sup>+</sup>18, BYHT18, BTC06, CG87, CF85, CDC<sup>+</sup>23, HKL<sup>+</sup>14, KL02, LHCH93, Lee09, PLL08, SRV<sup>+</sup>19, TS05, YP12, ZCH23, dLBHC22, FKSB06, KRL87, MM07, NNSP22, TYNM86, ZV97].

**Architectures** [OWP16, TVCM12, San09]. **Arden** [LHCH93]. **area** [SV87].

**Ariel** [Han92]. **Arithmetic** [Hwa85, KP96a, MHKR12, CS22, KP96b, MP88].

**Arizona** [Apo92, ACM97a]. **arm** [NHN<sup>+</sup>20]. **Armenian** [Gue87]. **Array**



[CPW88, GHK<sup>+</sup>91, LK90, WBA83, DK13, LK88, ME97, MM07]. **Arrays** [AOK02, ABM08, GV05, MM93, Neu10, PP06, Shi96, Bak78, CR91, DSv94, GV00, HHLS06]. **Arrhythmia** [ARM<sup>+</sup>19]. **arrivals** [SWZ01]. **Art** [DGBH93, Knu05, Ruc15, WDG<sup>+</sup>14]. **Artificial** [IEE94b, ZGY<sup>+</sup>16]. **ASCII** [Pol01]. **Asia** [IEE94a]. **Asia-Pacific** [IEE94a]. **Asilomar** [CG94b]. **Aspects** [FJ92]. **Assembly** [KS99, MW92b, Sno01, FL71]. **assertional** [PS90]. **Assertions** [MC24, Jay92]. **assessment** [HBRV10]. **assignments** [LSO17, Mor02]. **assist** [KKM<sup>+</sup>06]. **Assisting** [XPZ<sup>+</sup>23]. **Associated** [CLST<sup>+</sup>13]. **Association** [DT87]. **Associative** [Eke95, YIAS89]. **Associative-Commutative** [Eke95]. **Assuring** [YDW18]. **Astrid** [STKD20]. **Astronautics** [WKA94]. **Asymmetric** [QWX<sup>+</sup>13, CGPS13a]. **Asymptotic** [Jan23, KC11]. **Asynchronous** [KFG15, LPJ23]. **ATARI** [TSM88]. **Athens** [Len11]. **Atlanta** [ACM83, ACM99b, IEE09]. **Atlas** [TMV<sup>+</sup>01]. **Atoms** [Les79]. **Attacks** [ABBH<sup>+</sup>16, AV23, PM23, VS11]. **attention** [TJGY22]. **attribute** [Har02]. **Attributed** [CTF<sup>+</sup>98, Gro92]. **attribution** [Far92a, Far92b]. **Audio** [DCM15]. **Audit** [KNMH00]. **Augmented** [OS11, SA96]. **August** [ABB93, BGNP94, B<sup>+</sup>02, FGR72, IEE95b, WN90]. **authenticated** [PPTT15]. **Authentication** [RMK<sup>+</sup>14]. **Authorizing** [WYA<sup>+</sup>07]. **autocomplete** [XQW<sup>+</sup>13]. **Automata** [AWD<sup>+</sup>18, Ant95, Cha02a, CLOZ04, Co072, CDPP23, DKA<sup>+</sup>15, DMVT13, DM11, EZYA23, FL12a, Ghi62, Gol93, GWX<sup>+</sup>23, GH13, GH15, HIRS17, HU79, HU92, HMU01, HMU07, HSW97, HSW01, KPR97, KPR00, KV15, LKM23, LT16, LPJ23, Loh10, MS98, MHKR12, MHT09, MY60, Mel95, MSZ17, Moh97, MR09b, NR98, NWE97, Ned98, OS11, Pet92, RS59, RSG<sup>+</sup>19, SRV<sup>+</sup>19, SM56, SM74, She59, SSSS10, Sim94, UW93, dLBHC22, BYCG94, BYBDS09, BdFED<sup>+</sup>20, BDFR08, BS86, BT21, BH96, BK93f, Cho78, CR87, FS22, GOMSJVGP08, Gef03, HW07, HM00, HR00, Kle56, Lau00, LSO17, Lei81, NR00, NWE99, NdMM02a, NK07, Pet94, Ryt89, SY72, SBR<sup>+</sup>07, SH85, THL<sup>+</sup>20, VW11, YH91, YB13, ZZH16]. **automata-driven** [NWE99]. **automata-like** [YH91]. **Automata-Processing** [AWD<sup>+</sup>18]. **Automated** [BY92, BY96b, Bun94, CS18, Kap92, PPPdG20, Zha96, R  m17, BY91, Bun94]. **Automaten** [SM74]. **Automatentheorie** [HU92]. **Automatic** [BA06, BDD<sup>+</sup>14, DKA<sup>+</sup>15, DMWW77, KP93, PHXD19, RTO15, SWY75, SMS15, WKR09, Ear74, HA90, MR09a, PS93a]. **Automatically** [CGP<sup>+</sup>08, Kuk92, Mor02, SdM01]. **Automating** [Kah06, VR18]. **Automaton** [CZOdlH17, CZ01, GJ16, LY86, MOSZ18, Pr  17, Ant96, BYG96, COZ09, Hur84, Lei80, TLLL07, TLLL09, ZC99]. **automaton-matching** [TLLL09]. **Autonomously** [KT23]. **Auxiliary** [CZW15]. **availability** [LLL12]. **Average** [BYR92, BLP18, BMMR19, FN04, HKN14, Mon17, NF04, Sal12, SCFC94, Bar22, CGR99, GFG11, Quo92]. **Average-Case** [BLP18, HKN14, SCFC94, Bar22, Quo92]. **Average-optimal** [FN04]. **Avoiding** [AGM19, Fos89, Thi93]. **aware** [MBP22, WOQ<sup>+</sup>07]. **Awk** [AKW85, Dou91, Mis89a, Mis89b, Bar90]. **AWK-like** [Mis89a, Mis89b].



**Axiom** [Ano68, JT94]. **axiomatization** [HN11]. **axioms** [CD18].

**B** [Pet95, FG99, FV16]. **B-Tree** [FV16, FG99]. **B.E.** [Sca11]. **Back** [GH15, ESL89, FS19, Lar98]. **back-references** [FS19]. **background** [RH81]. **Backing** [BAP06]. **backreferences** [BvdM23]. **Backtracking** [FKP77, MNR<sup>+</sup>23]. **backward** [Sal12]. **Bad** [Len93, MLM<sup>+</sup>08]. **Baeza** [Hyy08]. **Baeza-Yates** [Hyy08]. **Balanced** [EJ23]. **Balanced-by-Construction** [EJ23]. **Balancing** [GL19, MM02, MM03]. **Baltimore** [ACM90b]. **Banff** [A<sup>+</sup>08]. **Barcelona** [LV06]. **Bark'** [Gue87]. **Base** [IEE01a, IEE01b, ZZJC20]. **Based** [AOK02, AV23, BYHT18, BL16, CFP19, CDM11, CZCD09, D'A98, DS19, EGP14, EZYA23, FYJ<sup>+</sup>17, FL12a, FMP20, GMAS22, GR96, GKW<sup>+</sup>10, HH83, JZAA19, Kid09, KKSLO1, KL02, K VX12, KNMH00, LLLC17, Liu14, LT09, LS94, Lut02, MU02, MGF97, MNR<sup>+</sup>23, Mye98, ND02, OWP16, PS10, PP06, Sad96, SF01, SvS14, SL17, TMV<sup>+</sup>01, TK07, VB23, WPKL13, WMGS19, WD99, WZU14, YC22, Yun12, AFI98, Agu23, ASM17, Ano96a, ARS16, BKLE18, BDMT16, BC06, Bro77, BFS00, CW13, CFCK22, CLP95, CK08, DLF<sup>+</sup>15, Far92a, Far92b, Gan89a, GN19, Gre88, Ier09, IIK08, II08, JHU<sup>+</sup>24, KB22, KS07, KN00, LLL12, LHCK04, Lus94, MLC08, Mye99, NE93, NRO12, PD12, PJMR14, PKK18, Rus92, SBB19, SNM<sup>+</sup>13, SZ05, SSW19, SMW<sup>+</sup>23, THQ19, TM04, TP07a, TP07b, TPT13, TN13]. **based** [TN15, VRC24, WL15b, WSW16, WHZ<sup>+</sup>17, YT03, ZV97, ZZ12, ZZJC20, ZYX<sup>+</sup>12, dH05, Ano96b, NTS93]. **Bases** [AAC<sup>+</sup>01, B<sup>+</sup>02, Gon83, ABB93]. **Batched** [Man86]. **Bayesian** [SD91a, SD91b]. **BC** [LL08]. **Be** [Cox07, LY86, EMT23, PW93, Sch91a, Sch91b, AK09b]. **Beach** [HM96, CVP86, IEE97]. **Beam** [DMWW77]. **beams** [NA90]. **Beating** [ZGY<sup>+</sup>16]. **beats** [THG17]. **Beautiful** [OW07]. **Beauty** [FvGGM90]. **BEG** [ESL89]. **Beginning** [JNS08]. **Behavior** [CDM11, Wei83, LYWL08]. **Behaviour** [BMMR19]. **behind** [CA20]. **Beijing** [ACM07, Bao93]. **Bell** [Neu10]. **Benchmark** [Ano10, KL02]. **Berkeley** [ACM86]. **Best** [Ben94, BK93g, LG16]. **best-effort** [LG16]. **Best-First** [BK93g]. **Better** [Gon02, TWZ23]. **Between** [Nag21, Pre99, BGJ01, LSV08, Rot91, SN94]. **Beyond** [BdFED<sup>+</sup>20]. **bible** [Blu08, BWN08]. **Bibliographic** [AC75, CPW88]. **Bibliography** [Bee13, RH81]. **bidirectional** [KH06, KST16]. **big** [Sch81]. **BIIG** [PJMR14]. **Bilbao** [DMVT13]. **billion** [SWW<sup>+</sup>12]. **Binary** [BFKL13, GHLW15, Ayc15, BPMA02, Bra90, Gef03, GG13, GS06, KBN09, LMT16]. **Binding** [LSTW<sup>+</sup>17, Wes97]. **binoid** [HWJ03, HSJ04]. **binoids** [HSJ04]. **Bioinformatics** [Gon02, KPP19, SJNS19, SNB<sup>+</sup>19]. **Biological** [CL94, LJH<sup>+</sup>17, Lut02, MSS<sup>+</sup>19, YDDDB15, ECSS88, HIEH22, IHEH23, NR02]. **Biology** [Gus97, Lab12a, Lab12b, Val09]. **Biometrics** [Rei03]. **Bipartite** [Eke95, FS13]. **birthday** [FvGGM90]. **bisimulation** [BCG07]. **Bit** [CF06, CHL14, GF08, HT17, HN02, HN05, KKK11, Kül10, LKM23, Mye98, NR98, NH11, RD17, TBS06, TLS16, WSVS22, ASM17, AAK<sup>+</sup>09, CL09,



GS93b, GS93c, HFN05, Hyy08, K VX12, KIH15, Mye99, NR00, SBB19].  
**Bit-Coded** [RD17, NH11]. **Bit-Parallel** [CF06, CHL14, HT17, HN02, HN05, K  l10, NR98, GF08, TLS16, Hyy08, KIH15]. **bit-parallelism** [ASM17, HFN05, NR00]. **Bit-Serial** [WSVS22, GS93b, GS93c]. **Bit-Split** [KKK11, TBS06]. **Bit-Vector** [Mye98, Mye99]. **Bitcoin** [VD17]. **bits** [AEK<sup>+</sup>11]. **Bitstream** [Bur11]. **Bitwise** [KF91]. **Bivariate** [Liu14]. **biXid** [KH06]. **BIXSAN** [VS11]. **Blackboard** [DJ96]. **BLIM** [K  l10].  
**Blindfolded** [EF13]. **Block** [LT97, Chr96, HFFA09]. **block-interchanges** [Chr96]. **blockchain** [SN24]. **Blocked** [FTJ95]. **Blocking** [Bon07]. **blocks** [MBH20]. **Bloom** [MA12, ZS17]. **Bluetooth** [LTL04]. **BNF** [Man06]. **board** [AAB<sup>+</sup>86]. **Body** [JM85, BWG12]. **body-worn** [BWG12]. **Bolt** [WZL<sup>+</sup>23].  
**bonds** [PS89]. **BonXai** [MNNS12]. **Book** [Ano97a, Ano97b, Ano12, Gue87, Hig95, Hum97a, Hum97b, Neu10, Pux97, Sal01, Tal81, Uma97]. **Bookshelf** [BF97, Lut02]. **Boolean** [SJ13]. **Boomerang** [BFP<sup>+</sup>08]. **Boost** [BBvdM21].  
**Boosting** [CDL<sup>+</sup>15, LLW<sup>+</sup>15]. **both** [JD XD13]. **bottom** [BDB90, CPT92, Cha87]. **bottom-up** [BDB90, CPT92, Cha87]. **Bound** [BG92, GK86, Les94, BCKM15, BG91b, GZ10b, Ind98, Lif03, LP08].  
**boundaries** [SHS14]. **Bounded** [Dur94, LLC17, NR03, SD95, BFK<sup>+</sup>03, CR95a, FK96, KNT11]. **Bounds** [CM08, Col94a, CHPZ95, CH97a, GG91, GG92, GHW05, KS94, BCT93, CJPS13, Col90, CH92, SASU13, Shi97, SV87]. **boxed** [CNS18]. **boxed-mesh** [CNS18]. **Boyer** [Tal81, AR13, AG86, BYR92, BYCG94, BYBDS09, BPMA02, Ber00, BKM95, CFG12, Col90, Col94a, DR06, EMC96, Gal79, Gol90, GO80, HA90, Kau92, KP96a, KP96b, KBN09, Kun95, Lec92, Men89, NT05, Pie95, Rai92, Rus85, Rus92, Ryt80, STK10, Sch88a, Smi94, Sto02, Tak96b, TU93, TJMC20, WW03, WW93, Woo86]. **Brain** [TMV<sup>+</sup>01]. **brains** [Joh01]. **Branching** [Dur94, BK86]. **Bridging** [BGJ01]. **British** [ACM92d, ACM08, MG94]. **Browser** [NTS93, VS11]. **Bruijn** [Sri88]. **Brute** [GHK14]. **Brute-force** [GHK14]. **BSR** [Sto96]. **BST** [SCFC94]. **BUFFERS** [Duf82]. **bugs** [WBS22]. **Building** [BC06, GHK<sup>+</sup>91, SK17, DF00]. **Burrows** [Neu10, ABM08, DGG<sup>+</sup>19, ZMAB03]. **buses** [KRL87]. **business** [BJK<sup>+</sup>12, FvGGM90, PJMR14]. **buts** [Edw07]. **BWT** [AMB<sup>+</sup>02, BPMA02, FBMA05]. **BWT-transformed** [AMB<sup>+</sup>02].  
**Bypassing** [PLT14]. **byte** [TMK<sup>+</sup>02].

**C** [Gue87, Sal01, Bar84b, Car77, Eck89, Fre78, GS93b, GS93c, Hol84, KOI94, Mad01, Mis89a, Mis89b, OK94, Sab76, Sed90, Sed92, SDS14, Str13, SM04, Stu07, Wea94]. **CA** [Ano97a, CG94b, KP15, ACM92b]. **Cache** [BTTF02, FV16, HLS<sup>+</sup>11, TLC15, FGG<sup>+</sup>08]. **Cache-Oblivious** [FV16, HLS<sup>+</sup>11]. **cache-obliviously** [FGG<sup>+</sup>08]. **caches** [HFFA09]. **Caching** [PS10, RT17]. **CADE** [Bun94, Kap92]. **CADE-11** [Kap92]. **CADE-12** [Bun94]. **Calculation** [SD95]. **calculi** [Dow91, Dow93]. **Calculus** [For02, CFK07, Tej20]. **California** [ACM69, ACM86, ACM92c, ACM93b, ACM95a, ACM95b, HM96, IEE93, Sto92, IEE98, USE92]. **Call**



[Jon07, MCP17]. **Call-pattern** [Jon07]. **calls** [FF08]. **CAM** [WSVS22].  
**Camera** [LT90b]. **Can** [Cal00, Cox07, DKA<sup>+</sup>15, JGMP22, Sch91a, Sch91b].  
**Canada**  
[ACM92d, ACM94d, ACM08, A<sup>+</sup>08, GS00, LL08, MZ07, Lev95, MG94].  
**Candidates** [MUHT96]. **Cannot**  
[JL96, LY86, PW93, EMT23, GGL94, JL93]. **can't** [LLS<sup>+</sup>20]. **Capabilities**  
[Cal00, Fri97b]. **Captions** [GR96]. **Capture** [Sch22]. **Capturing**  
[MCF<sup>+</sup>11, MCF<sup>+</sup>14]. **Car** [KK02]. **Care** [Aku94, Aku95]. **Cares**  
[BL94, CEPR10, KR97, MBY91, NR17]. **Carolina** [ACM93a, IEE89]. **Carte**  
[TL12a, TL12b]. **Cartesian** [F<sup>+</sup>23]. **Cascaded** [GC01]. **CASCON**  
[BGG<sup>+</sup>94]. **Case** [BLP18, CCL87, FTJ95, Gal79, JM85, PV91, SP16, Shi92,  
Bar22, BG91a, BGWXP22, Duf82, Fen01b, GF08, HKN14, KT90, Pep91,  
Quo92, SCFC94, SKS96]. **Cases** [ALLL98a, ALLL98b, BAC06, PPPdG20].  
**Categorical** [LT90a, TG96]. **Categories** [Kul11]. **Caucasus** [Sal01]. **CAV**  
[KP15]. **Cell** [AK09b, Sca11]. **Cell/B.E.** [Sca11]. **Center**  
[ACM89, Bao93, Hoa77]. **Central** [Liu14]. **Centric** [TLC15, BYK22].  
**Certified** [RD17]. **CGI** [Han01]. **CGOOD** [TG96]. **Chain**  
[MNS10, LBK08, SMT<sup>+</sup>86]. **chaining** [KFG15]. **Chalmers** [AJ89]. **change**  
[Joh94a]. **changes** [UIM22]. **channels** [AGH<sup>+</sup>17]. **Chaos** [ZGY<sup>+</sup>16].  
**Character**  
[Car77, CLP95, Dav73, HZ13, HH93a, HK77, MBP22, MR11, NR03, TMK<sup>+</sup>02,  
TJD<sup>+</sup>17, Wol86, CT96, HH93b, HH93c, LS09, Per94, Vin77a, Vin77b].  
**Characterisation** [KST12]. **Characteristic** [ISNH94]. **Characteristics**  
[HH83]. **Characterization** [HEWK03, BCG07, IMS97, VW11]. **Characters**  
[Aku94, D<sup>+</sup>23, FMP20, GH82, Aku95, Mha05]. **Charleston** [ACM93a].  
**Chart** [Mu 95, MuT95, Mun95]. **Charts** [GM02]. **checker** [GJS20].  
**Checking**  
[FF08, Gin67, LSWP19, RHR<sup>+</sup>21, CGPS13a, HN00, MW94, NRO12].  
**Chemical** [Les79]. **Chicago** [ACM06]. **China** [ACM07, B<sup>+</sup>02]. **Chinese**  
[GWvG10, GH82, HZ13, THQ19, XPZ<sup>+</sup>23]. **chip** [CDC96, SV87]. **Chips**  
[TLC15]. **Choices** [LD10, LS99]. **Choosing** [LLL12]. **Chord** [YJ84].  
**Chromosome** [KS94]. **Church** [KKM<sup>+</sup>85, Sha88a]. **CIP** [BW91].  
**CIP-Project** [BW91]. **Ciphers** [PP06]. **Circuit**  
[IMM<sup>+</sup>22, PM78, TT20, ADM<sup>+</sup>13]. **Circuits**  
[Brz64a, Brz65, FU82, GHKL18, KBB01, Pie95]. **Circular**  
[CKP<sup>+</sup>21, CHL14, HT17, LA12, Boo80, HOK18a, HOK18b]. **cities** [Joh01].  
**ClamAV** [OWP16]. **Class** [CGS17, EU98, Kin92, Kul11, SA96, Sch12, Sch13,  
BAC06, BRO16, CRV06, Kod79, Pie08, Wal89]. **Classes**  
[HHW<sup>+</sup>99, NR03, Lei85, LS09]. **Classic** [HSTS01, RB05, MAC14].  
**Classification** [Bon07, BYHT18, Lee91, TD18, WZJH12, XPZ<sup>+</sup>23, LMT16,  
TZH<sup>+</sup>13, WXZY12]. **Cleaning** [FKRV16, QTO<sup>+</sup>20]. **Clients** [CDM11].  
**CLIs** [YC22]. **clone** [DNR06, Joh94a]. **Closed** [Kul11]. **Closed-Class**  
[Kul11]. **Closest** [KF91, Sut21]. **Closure**  
[LMN16, AS85, Jed87, Lee82, LH03]. **Cloud**



[CFM17, CDM11, SOR16, KLL23]. **cloud-edge** [KLL23]. **clouds** [SCF<sup>+</sup>17]. **cluster** [MM03]. **Clustering** [CZW15, LSTW<sup>+</sup>17, WMGS19, KAT07]. **Clustering-Based** [WMGS19]. **CMA** [ZL18]. **Co** [CDPP23, CA18, CA20]. **Co-lexicographically** [CDPP23]. **Coarse** [FL99, TTO<sup>+</sup>22]. **Coarse-Grained** [FL99, TTO<sup>+</sup>22]. **Cobol** [HHW<sup>+</sup>99]. **Coconut** [AK09b]. **codata** [TCP16]. **CODE** [BY91, AGT89, Cox12, Fra83, GFH82, GHF83a, GHF83b, Gie90, ND02, RTT02b, SED14, VSM87, WHZ<sup>+</sup>17, WNL<sup>+</sup>83, ZWH<sup>+</sup>21, AG06, BDB90, BY92, BY96b, CLS95, FHP92, Gan89a, GHS82, HV93, MSRR00, MR82, NAR08, OW07, Rém17, UIM22]. **code-generator** [FHP92]. **Coded** [BG95, Chu95, RD17, BC95, NH11]. **Coder** [MP88]. **Codes** [YK11, Bra90, Mei08]. **Coding** [CW84, Dav73, JSC83, Kid09, DV21, Ind97, MP88, Shi97]. **Cognitive** [PW06]. **cohabit** [Wad87]. **coinductive** [HN11]. **Collage** [IST05, KMT<sup>+</sup>01, KMS<sup>+</sup>03]. **Collections** [Nav21b, Nav21a, BC13a, CHLS07, CMRV10, FGG<sup>+</sup>08, HAI02, WL15a]. **Colony** [ACM83]. **Color** [Hui92]. **coloring** [FS13]. **Columbia** [ACM92d, ACM08, MG94]. **Column** [SP16]. **Com** [Lia84]. **Com-puter** [Lia84]. **Combating** [KEG<sup>+</sup>08]. **Combinations** [Knu05]. **combinator** [Sta89]. **Combinatorial** [Ano17, BM08, Cro92a, GIMV03, Mei08, SLTB<sup>+</sup>06, Val09, WCM<sup>+</sup>94a, WCM<sup>+</sup>94b, CDDM05, HLN09, PPPdG20, AL01, AP10, Ano92b, Apo92, Apo93a, AH97, AT02, ACP05, BYCC03, CG94b, FC98, FL08, GU95, GS00, GM11, HM96, KS12a, KU09, LV06, MZ07, PC99, SMD04, Lab12a, Lab12b]. **combinators** [LT90a]. **Combining** [Ber00, JA17, JXA20, HBRV10, NR00, THQ19]. **Command** [Roo99, YC22, Blu08]. **Command-line** [YC22]. **Commands** [Lud77]. **Comments** [Akl78, ZZ12, Gro91a, THQ19]. **commerce** [ZCT14]. **COMMERCIAL** [BY91, BY92]. **Common** [Ale94, ACR20, F<sup>+</sup>23, FR17, HIRS17, IF94, JN24, KRS19a, KRS19b, KRS23, LJZZ13, DK13, FGKU15, Gra15, Maa06, Mid98, MBH20, Rou21, TU88, TTO<sup>+</sup>22, Mu 95, MuT95, Mun95]. **Commonwealth** [ACM89]. **Communication** [Ayc15, Bao93, HRN<sup>+</sup>15, HSL10]. **Community** [LYT<sup>+</sup>23, LGZ<sup>+</sup>14]. **Commutative** [Eke95, HY92]. **Compact** [Asp12, HAR10, NR01, Ric79, YP12, ZZH16, BFC08, DGM19]. **CompactDFA** [BBHK14]. **compaction** [NE93]. **compaction-based** [NE93]. **Comparative** [JM85, MSZ17, PSK08]. **Comparator** [Bur84, Bur82]. **Comparing** [Hoc19, Hua94]. **Comparison** [BCT98, JTu96, Lav91, de 82, Bar84a, BCT93, CT96, ECSS88, FBMA05, HA90, KB22, SVS97]. **Comparisons** [Bre93, CL92, GPR95a, Liu86, Bre96, PW06]. **Compatible** [Anoxxx, LT09]. **Competitive** [DV21]. **Compilation** [FU82, KTU87, Ses96, AP90, Dan91, HF13, KGP<sup>+</sup>05, Sch88b]. **Compiler** [AJ89, GFH82, Pet92, vNG01, CGZ<sup>+</sup>13, FKSB06, HWF90, Jør92]. **compiler.kit** [Abb77]. **compilers** [BGNP94]. **Compiling** [AU72, AU73, PS93b, Sch99, GHR<sup>+</sup>16]. **Complement** [GN12, Rob79].



**Complete** [Ano68, BBH<sup>+</sup>87, Pet02, Sch14, Kin91]. **completeness** [TCC91].  
**Complex** [Gor00, ZL18, LG16, LR14]. **Complexité** [Alb89]. **Complexity**  
 [ABBH<sup>+</sup>16, BKLP97, BKL<sup>+</sup>02, BDFW94, BCT94, BCT98, Col94a, CHPZ95,  
 CH97a, EZ74, EZ76, EMTG23, FMMS20, GG91, GG92, GK86, GH15, Hei01,  
 HK11, HU92, HSTS01, KLH16, MNS10, Mor83, NRS18, Prů17, RS98, Akl78,  
 Alb89, AK12, Bar22, BDM19, CGK08, Col90, CH92, CGG90, CS22, FCFM00,  
 FK96, Hun79, KS07, Lei81, LM12, LM13, LMN16, Mag81, Man76, NF04,  
 PS89, PAG09, Sal12, Via04, XH23, Yao79]. **components** [CFM00].  
**Composite** [XK92]. **composition** [AGH<sup>+</sup>17, SV09]. **Compositional**  
 [LN19, GJS20]. **Comprehension** [BLS<sup>+</sup>94]. **comprehensions** [SVMM17].  
**Compress** [GH82]. **Compressed**  
 [ABF96, BR09, BA16, BKLP97, BKL<sup>+</sup>02, BGS23, CHLS07, CLS<sup>+</sup>10, CHP92,  
 FT98, FV16, FT04, GP01, GP03, Gaw12, Gaw13, GV00, GV05, IST05, Jez15,  
 KTSA99, Kid09, KS05, KS06, LSW08, Loh10, Man94, Man97, MHT09,  
 MHM<sup>+</sup>01, NR99b, Nav01c, NM07, Nav21b, Rao95, RNOM09, STSA99,  
 TMK<sup>+</sup>02, YK11, ZMSD93, ABF94b, BCD98, BPMA02, BFG09, BBK12,  
 CP97, FT95, FGG<sup>+</sup>08, GR99, GO12, HHLS06, KTS<sup>+</sup>98, KMS<sup>+</sup>03, NKT<sup>+</sup>01,  
 NT05, SNZBY00, SLZ<sup>+</sup>20, SMW<sup>+</sup>23, TM04, TM05b, TM05a]. **compressible**  
 [BFKL13]. **compressing** [WL15a]. **Compression**  
 [ABM08, BC13b, BK93a, CW84, FG89, GS85, How97, LS94, Man94, Man97,  
 Neu10, RPE81, RT17, Sad96, SKF<sup>+</sup>00, SC93, SC95, SC96, SC98, SC99, SC01,  
 SC02, SC03, SC04, SC05, SM09, SM10, SM11, ASG99, AGS96, BFPNP10,  
 Cha93b, CDC96, CL96, How96, Lar99, OW03, QZC17, RTT02a].  
**COMPSAC** [IEE95b]. **Computable** [KT23, EH88]. **Computation**  
 [Bro93, COZ09, Cha86, HU79, HMU01, HMU07, Hua98, Lev95, Ng79, Rao94,  
 WN90, CCI<sup>+</sup>13, Far19, Han02, Maa06, NHN<sup>+</sup>20, NA90, PS93a, QZC17,  
 SY23, SASU13, Sid00, Tak96b, YT03, ACM94b]. **Computational**  
 [Gus97, Lab12a, Lab12b, Tal81, HN11, Val09, Via04]. **Computationally**  
 [HT14]. **Computations** [FKP77, CR91, NEH90, Pra97, PCS99]. **Compute**  
 [MR11, MS95]. **Computer** [ACM89, AHU74, Bao93, Cop91, FJ92, Gus97,  
 Hea71, Hwa85, CVP86, IEE89, IEE90, IEE92, IEE93, IEE95a, IEE95b, IEE97,  
 IEE98, IEE09, KL02, Knu05, Kül10, RJK79, Ruc15, SS93a, Co086, Fat15,  
 II09, Ker04, SS94, VVV04, Win78, iA94, KP15]. **Computer-Recognized**  
 [RJK79]. **Computers** [FL99]. **Computing** [ACM69, ACM74, ACM76,  
 ACM81, ACM84, ACM86, ACM90b, ACM91, ACM92d, ACM93b, ACM94d,  
 ACM95c, ACM97c, ACM99b, ACM00, ACM08, Ano13, BGK<sup>+</sup>16, CZOdH17,  
 CFM17, CZ01, Cha94, DT87, DGBH93, FYJ<sup>+</sup>17, Fra20, HM98, HM87,  
 ISNH94, LK90, Rot91, RW10, Wol90, BGNP94, BC95, IP96, LK88, ZYQ<sup>+</sup>15].  
**Concatenation** [CGS17]. **Concave** [KM92, KM95a]. **Conception** [Hud89].  
**Concepts** [BGJ01]. **Conceptual** [BK75]. **concise**  
 [BNSV10, NdMM02a, Yod91]. **concrete** [JD89]. **Concur** [SBF80].  
**Concurrent** [GR92, Pel87, SBF80, BFN<sup>+</sup>09, Gol90, JM90, Rus92, YT03].  
**condition** [Han92, KT90]. **Conditional** [DJ96]. **conditionals** [Edw07].  
**Conduct** [NCKL14]. **Conference** [ACM89, ACM92c, ABB93, AGS93e,



Ano87, AAC<sup>+</sup>01, AOV<sup>+</sup>99, Bao93, B<sup>+</sup>02, Bun94, DMVT13, FMA02, CVP86, IEE94a, IEE94b, IEE95b, Kap92, KP15, MG94, NH11, SW94, Sto92, SC93, SC95, SC96, SC98, SC99, SC01, SC02, SC03, SC04, SC05, SM09, SM10, SM11, USE92, DT87, HF13, ACM69, ACM74, ACM76, ACM81, ACM92a, ACM93a, ACM94a, ACM95a, AGS93a, AGS93b, AGS93d, AGS93c].

**Conferencing** [Sch95]. **Configurable** [ACF05]. **Configuration** [Sch95]. **Conflicts** [YD95]. **Congress** [FGR72]. **congruence** [KKH24]. **Conjunctive** [CDL08, FLS98, Sch22]. **connected** [Joh01]. **connectivity** [Sri88]. **conquer** [KD15, SW12, SHCY93]. **consecutive** [KKR<sup>+</sup>13]. **Consensus** [BDFW94]. **Considered** [Sym85]. **Consistency** [ZCS<sup>+</sup>12, AL08]. **Consistent** [PW93, MAI<sup>+</sup>16]. **Constant** [ABMN20, BGG12, CGG<sup>+</sup>97, CGH<sup>+</sup>98, CGR99, Gal95, GPR95a, KRR17, Sto96, BGM13, Gal92]. **Constant-Delay** [ABMN20]. **Constant-Sized** [KRR17]. **Constant-Space** [GPR95a, CGR99, BGM13]. **Constant-Time** [BGG12, CGG<sup>+</sup>97, Gal95, Gal92]. **constants** [KC11]. **Constrained** [CS11a, CLT07, Jan23, NT20, TTO<sup>+</sup>22, XJT<sup>+</sup>04, ZJL14]. **Constraint** [Coh90, RHR<sup>+</sup>21, CFK07, Smi91a]. **Constraints** [BGM19, CCH<sup>+</sup>23, GRS99, ZGS<sup>+</sup>15, CDL08, CFLH<sup>+</sup>22, ETV21, HW09, KS11a, ZXL<sup>+</sup>13]. **Construct** [DKA<sup>+</sup>15]. **constructability** [Kar82]. **Constructing** [IY02a, IY02b, Lei80, JRV96, TU88, TTHP05]. **Construction** [BP63, EJ23, McC76, MOSZ18, BH96, DKP11, FCFM00, Kos94, Mei08]. **Constructions** [Ant95, MSZ17, Ant96, Che96]. **constructive** [Tak96a]. **constructors** [MME14]. **contact** [KD15]. **Containing** [HJ99, CFM00, FSL<sup>+</sup>15]. **Containment** [FLS98, CDL08, HN11, SH85]. **Content** [PW12, Agu23, LMT16, MLC08, TLLL09]. **content-based** [MLC08]. **Context** [CK02a, Haz01, Hua94, Kea91a, SBHM94, SA96, KGA<sup>+</sup>12, Mye95]. **Context-Free** [SBHM94, KGA<sup>+</sup>12, Mye95]. **Context-Sensitive** [SA96]. **contextual** [JGMP22]. **Continental** [Bao93]. **Continuous** [SBF80]. **contraction** [KPP21]. **Control** [Bao93, HHW<sup>+</sup>99, Hoa77, Mu 95, MuT95, FWDL15, Mun95]. **Controlled** [NAR08]. **Convention** [ACM89, Bao93]. **Convergence** [Sid95, Sid99, Sid02]. **convergent** [Sid95]. **Conversion** [GJ16, HZ13, Hoa77, Lau00]. **convert** [ZC99, CM86]. **converting** [Gal75]. **convolution** [Ind98]. **Convolutions** [ALR08, Zha17]. **Cookbook** [ST03, GL12, Ano12]. **coordinated** [Mid98]. **coordination** [CFM00]. **copattern** [RTO15]. **copatterns** [AP13, APTS13]. **coprocessor** [TLLL07]. **Copying** [JLH18]. **Coq** [MPdS12, VLP17]. **Corasick** [CW13, NK07, PLL10, RKM21, TM05b, TZh<sup>+</sup>13, TVCM12]. **Core** [LY17, TLC15, JA17, JXA20, MAC14]. **Cores** [LSTW<sup>+</sup>17]. **corpus** [IHK08, II08]. **corpus-based** [IHK08, II08]. **correct** [Ryt80]. **Correcting** [Kuk92]. **Correction** [And02, Bur84, HOK18a, JP73, KRS19a, KRS23, RJK79, Wag74, BSY00, Mae90, MS95, TIAY90]. **CORRECTNESS** [BY91, Col91, Sto02, BY92, SBR<sup>+</sup>07]. **correlated** [SWZ01]. **Correlation** [KC99, Sha93, WZJH12, PPZ08]. **Correspondence** [BYKZ<sup>+</sup>92, Spi99b].



**corresponding** [Lif03]. **Corrigendum** [FLSS93a]. **Cortical** [TMV<sup>+</sup>01].  
**cosine** [TP07a, TP07b]. **Cost** [KLL23, WZL<sup>+</sup>23, SASU13]. **Cost-Efficient**  
 [WZL<sup>+</sup>23]. **costs** [PW06]. **Count** [MR11]. **Counter** [WPKL13].  
**Counter-Based** [WPKL13]. **counterparts** [BdFED<sup>+</sup>20]. **Counters** [LT09].  
**Counting** [CGS17, GGM12, San95, CGPS13a, Gel10, Nic03, THL<sup>+</sup>20].  
**counting-set** [THL<sup>+</sup>20]. **coupling** [All89]. **course** [GHR14, HR00].  
**coverage** [GJS20]. **Covered** [Yun12]. **Covering** [BNV<sup>+</sup>13, CIK98]. **covers**  
 [IP96, MS95]. **Covert** [HL10]. **CPM**  
 [AL01, AP10, Apo93a, AH97, AT02, ACP05, BYCC03, CG94b, FC98, FL08,  
 GU95, GS00, GM11, HM96, KS12a, KU09, LV06, MZ07, PC99, SMD04].  
**CPU** [LLC17, ZCH23]. **CPU/GPU** [LLC17]. **crash** [GHR14].  
**crash-course** [GHR14]. **CRCW** [Apo93b]. **CRCW-PRAM** [Apo93b].  
**CREW** [dB93]. **Critical** [Lut02]. **Crochemore** [Bre93, Bre96].  
**Crochemore-Perrin** [Bre93, Bre96]. **Cross**  
 [AS91, FTJ95, KNS12, Sha93, LGZ<sup>+</sup>14]. **Cross-Correlation** [Sha93].  
**Cross-Document** [KNS12]. **Cross-Interferences** [FTJ95]. **Crossover**  
 [Sut21]. **Crowd** [CDL<sup>+</sup>15]. **Crowd-Sourcing** [CDL<sup>+</sup>15]. **Cryptanalysts**  
 [GS93a]. **cryptography** [DA18]. **CS3** [Kah07, Kah09]. **CS3/CS4** [Kah09].  
**CS4** [Kah09]. **CSV** [AMRV16]. **CSV-like** [AMRV16]. **CTL** [MMDdJ11].  
**CTRL** [MMDdJ11]. **Cube** [ML96a, Dow91, ML96b]. **Cubes** [CR95c].  
**Cuckoo** [TK07]. **CUDAs** [KMM15]. **curly** [HSW97]. **curve** [SA77].  
**Curved** [LT90b, NA90]. **Curves** [HHW<sup>+</sup>99]. **Custom** [Han01, Vol12]. **Cut**  
 [AM97, Lud77, CK04]. **CVPR** [CVP86]. **Cycle** [KK95]. **cycles** [Ste12].  
**Cyclic** [KPP21, Mae90].

**D** [SHCY93, ASG99, BSM<sup>+</sup>07, BZ98, CJ93, KD15, LT90b, Mun07, TCCK90,  
 ZLN11]. **D-pattern** [ASG99, KD15]. **DAGs** [ZZ12]. **daisy** [SMT<sup>+</sup>86].  
**Dallas** [IEE95b, NEH90]. **Damaged** [SP16]. **Dark** [Hum99]. **Darmstadt**  
 [AGS93e]. **Data**  
 [ABM08, AAC<sup>+</sup>01, BLLW12, B<sup>+</sup>02, BGNV10, Bon07, CBD<sup>+</sup>23, CW84,  
 CMNP17, DT87, EF13, FG89, FO76, FBY92, FMA02, FMG23, Gia93, GG97,  
 Gon83, GS85, Har02, JDxD13, KM94, LSW08, LKL02, LM01b, LMV16,  
 LS94, MBP22, MMS14, Neu10, PYY19, Pre99, RPE81, Sad96, SD95, Shi78,  
 SW94, Sto92, SC93, SC95, SC96, SC98, SC99, SC01, SC02, SC03, SM09,  
 SM10, SM11, SOR16, TV14, VMML15, WCM<sup>+</sup>94b, YDDB15, ABB93, AL08,  
 AMRV16, BGHZ15, BFP<sup>+</sup>08, BFS00, BC93, Cha93b, CDC96, CDP16b,  
 CD96, FG95b, FG99, FMG22, GMC02, GS22, GW92, GS93b, GS93c, GPN96,  
 GHS12, GS06, HN90, HSL10, HH16, HF13, JO97, JD89, Kra08, Lar99,  
 LWS<sup>+</sup>16, LRV13, LTV15, MRA<sup>+</sup>17, MF96, MRR<sup>+</sup>18, Nil90, ORPF13, OR11,  
 OSSK16, PJP<sup>+</sup>18, PJMR14, QTO<sup>+</sup>20, RW93]. **data** [RM06, SMS15, SG16,  
 SMW<sup>+</sup>23, TSI13, TG96, VR18, Wad87, WCM<sup>+</sup>94a, ZBST14, SC04, SC05].  
**Data-Parallel** [VMML15, MMS14, GS93b, GS93c]. **data-parallelism**  
 [RW93]. **Database**  
 [ACM83, ACM90a, ACM92b, ACM94c, ACM95b, ACM97a, ACM98, ACM99a,



ACM06, ACM07, CCL87, HF13, HAI02, LHMH91, LL08, MNP<sup>+</sup>23, SK17, VB98, GPTV93, IIK08, KLB12, Len11, OKT92, SHS14, SR16, ZCÖ09, KKP92].

**Databases** [AAB<sup>+</sup>17, AOV<sup>+</sup>99, CCH09, GNU94, Pou93, CN21, FLC<sup>+</sup>19, SHvR<sup>+</sup>16, WZS95, ZCT14, ZCÖZ12]. **Dataflow** [PK85, Ray96]. **Datalog** [dLFM07]. **datatypes** [JR15a]. **Dates** [SM99, HN00]. **dbC** [GS93b, GS93c]. **DC** [ACM84]. **DCC** [SC98, SC04, SC05, SC93, SC95, SC96, SC99, SC01, SC02, SC03, SM09, SM11]. **DDC** [SM10]. **De-Compositional** [LN19]. **Dead** [Cox10c, MD10]. **Death** [CGP<sup>+</sup>08]. **Debugging** [MLM<sup>+</sup>08]. **December** [A<sup>+</sup>08, IEE94a]. **decentralized** [SMT<sup>+</sup>86]. **Decidability** [Asp12, Kar82, San15]. **Deciding** [CDLM17, Gaá04, MPdS12]. **decipherability** [AG84]. **Decision** [MNS10, RS59, CS11b, HW09, TN13, TN15]. **Declarations** [MGH93]. **Declarative** [ADR15, FKR16, Spi99a, Spi99b, KLR<sup>+</sup>08]. **Decoding** [Sto96]. **Decomposition** [AGH<sup>+</sup>17, KVX12, PS93b]. **deduction** [Bun94, HR03, Kap92]. **Deep** [CMS08, LLLL08, LLC17, VWR11, YP13, ARS16, BAC12, NYuR15, PKK18, STKD20, SSYW19]. **Defective** [BTTF02]. **Defending** [AV23]. **Defense** [Bol02]. **definability** [CDLM17]. **Definable** [BLSS03, Cho78]. **Defined** [KMRY20, KMR21, PSK17]. **Defining** [TBD22]. **definition** [Yod91]. **definitional** [CKC07]. **Definitions** [IEE01a, IEE01b]. **deformation** [BCWG09]. **Degenerate** [BGP<sup>+</sup>22, DW17, IMR08, LJH<sup>+</sup>17, BPPR20, DGG<sup>+</sup>19]. **Degenerates** [GP18]. **degree** [HY90, LSV08, YH91]. **degrees** [YH92]. **del** [ACM69]. **Delay** [ABMN20]. **deletes** [Mei15]. **Demand** [KBB01, FWDL15]. **demand-driven** [FWDL15]. **Demystifying** [WBS22]. **denial** [PM23]. **Denmark** [AH97]. **denoising** [CDDM05]. **Denotational** [Gud92, Mal93]. **denoting** [HSJ04]. **Density** [Bur11, Sel84]. **Department** [Bol02]. **Dependence** [KK95, AFM94]. **dependences** [BD98]. **dependencies** [Cox19, QTO<sup>+</sup>20, Rai99]. **Dependent** [CD18, Hua94, CFLH<sup>+</sup>22, CDP16a, CA18, CA20, Jan23]. **Independently** [Xi03, CDP16b, Tej20]. **depth** [Alb89]. **Derivation** [Mis03, BGJ89, HR01, Pep91]. **Derivative** [MNR<sup>+</sup>23, SL17]. **Derivative-Based** [SL17]. **Derivatives** [Ant95, Brz64b, CJM12, CDJM15, SL14, ST19, Urb23, Ant96, ADU16, BRO16, ELF22, KMR21, ORT08, ORT09, Sid00, TN13, TN15]. **derived** [PS90]. **Deriving** [TA90]. **derivors** [Gie90]. **Described** [KPR97, KPR00, SA96]. **DescribeX** [CMRV10]. **Describing** [Pie95]. **description** [CDL08, FKS06]. **Descriptive** [GH15, LMN16, XH23]. **Descriptions** [KRS95, KRS97, SC88]. **Descriptive** [GR96]. **descriptor** [All82]. **Design** [AHU74, BK75, BCD14, Bir10, Bur84, HL97, OF61, Ski98, VKPI17, ZA87, dLBHC22, Bur82, CMS08, Hur84, KCK93, MI07, OA17, San09, SW12, WKR09]. **designers** [LS99]. **Designing** [II09, Mor83, SB09, DC94]. **Desktop** [Rob99a, Rob99b]. **desukutoppu** [SM04]. **Detect** [OWP16]. **Detecting** [GN19, Mut97, TMV<sup>+</sup>01, Mar89, Mha05]. **Detection**



[ARM<sup>+</sup>19, BYHT18, CZCD09, GKW<sup>+</sup>10, KKK11, KNMH00, Lee91, LY17, Les79, PAMP12, Sli83, TS05, WWW<sup>+</sup>16, ZL18, ZLN11, ACF05, BKLE18, BAC12, BCD14, DNR06, FNP09, GZ10a, Joh94a, KOI94, KAT07, LHCK04, LGZ<sup>+</sup>14, OK94, QLY07, SA77, TBS06, VD17, Hig95]. **Determining** [ZZJC20]. **Determinism** [GGM12]. **Deterministic** [BGNV10, BKW92a, BKW92b, BKW92c, Co072, FS19, GZ94, GMS12, Ind97, KV15, LY86, Nag21, Ned98, TLLL07, VW11, Vis90, Vis91, XLC19, BS86, BBM21, CDLM17, GHR<sup>+</sup>16, GM17, Lau00, LMN16, NdMM02a, SV09]. **develop** [DV21]. **developers** [LS99]. **Developing** [MNNS12]. **Development** [HR01, JLHB92, LHCH93]. **Developmental** [YCJK08]. **Developments** [PV91, OKT92]. **Devices** [HAR10, Sym85, CMS08, Pet07]. **DevReplay** [UIM22]. **DFA** [BC13b, CP97, NYuR15, NR01, PW93, TJD<sup>+</sup>17, VWR11]. **DFA's** [CHP92, FDG<sup>+</sup>11]. **Diacritic** [JZAA19]. **Diacritic-Based** [JZAA19]. **Diagnosis** [SL17]. **Dictionaries** [Bre94a, Owo93]. **Dictionary** [And02, Bre94a, Bun95, Gue87, KW19, KS11b, KS12b, AF92, DLF<sup>+</sup>15, SMW<sup>+</sup>23]. **dictionary-based** [DLF<sup>+</sup>15, SMW<sup>+</sup>23]. **Dictionary-Matching** [Bre94a]. **Diego** [ACM92b, ACM93b, Sto92]. **differences** [CN21, LV88]. **different** [YB13]. **Differential** [FDG<sup>+</sup>11, PS93a]. **Differentiated** [ZLN11]. **differentiation** [PS93a]. **Diffusion** [MSP<sup>+</sup>17, Sal01]. **Digest** [CZCD09]. **Digital** [AGS93a, AGS93b, AGS93d, AGS93e, AGS93c, JRV96]. **Digitized** [LV94]. **Degree** [SK17]. **Dijkstra** [FvGGM90]. **dimension** [Bak78]. **Dimensional** [ABF94a, ADLM96, BYN98, BKLP97, BKL<sup>+</sup>02, CDEK95, CL95, CHLT14, CR92, CR95b, CGPR95, CGH<sup>+</sup>98, CIK98, FU98, FNU02, GPP04, Gia93, GG95, GG97, HEWK03, HW12, KPR97, KPR00, KU99, KR94, Les79, Les95, Par96, Prü17, ZT89, AK08, AF92, ABF94b, ABC<sup>+</sup>04, AKT06, AGM05, ADLM01, BYR93a, BYR93b, Bir77a, CGK08, CGR93, CR94, GP92, HLN09, JKNS00, KM13, Mid96, MPW21, NBY99a, Par98, TIT83, WC14, XMLC11]. **dimensions** [CCG<sup>+</sup>93, dRL95]. **Directed** [Fu95, Fu96, Fu97, Gud92, Kor83, Bö13, Dan91, Fil21, Nil90]. **Directly** [Man94, Man97]. **Directory** [ZJP<sup>+</sup>18, Zve80]. **Disambiguation** [OS11]. **Discontinuities** [Lee91]. **discourse** [Kit94]. **Discovering** [LSTW<sup>+</sup>17, LSWP19, SW93]. **Discovery** [CLST<sup>+</sup>13, VG01, WCM<sup>+</sup>94b, MP05, TSI13, WCM<sup>+</sup>94a, WZS95]. **Discrete** [ACM97b, Gim73, KC99, Nak14]. **Discrimination** [KC87]. **Disease** [TMV<sup>+</sup>01]. **Disease-Specific** [TMV<sup>+</sup>01]. **Disjoint** [LS10, YD95]. **Disjunctive** [HR03]. **Disk** [JDXD13, WHZ<sup>+</sup>17]. **Disk-based** [WHZ<sup>+</sup>17]. **disordered** [CGM10]. **dispatch** [MFRW09]. **dispatching** [FMdB99]. **Display** [Rei77]. **Display-Oriented** [Rei77]. **Distance** [BCP02, CZOdH17, D'A98, FMP20, KS94, Med23, Ris16, RKH02, TT20, ZCÖ09, AEP06, AK12, AD11, BC95, CM07, EH88, GF08, HKN14, HOK18b, Leu97, PPZ08, Rot91, SKS96, TSI13, ZXL<sup>+</sup>13, HOK18a]. **Distance-join** [ZCÖ09]. **distances** [AAB<sup>+</sup>09]. **Distorted** [VB98]. **Distortion** [KC87].



**Distributed** [AYS<sup>+</sup>24, ASA17, BYNTK21, CPW88, IMR08, ML96b, NCKL14, PSP<sup>+</sup>18, SK17, TVCM12, ZLN11, AC93, DSv94, FWW12, HRN<sup>+</sup>15, HFFA09, LQL<sup>+</sup>16, LLC03]. **Distributed-Memory** [TVCM12]. **Distribution** [MR11, YJ84]. **divergent** [Sid95]. **Diversified** [FWW13a, FWW13b]. **Divide** [KD15, SW12, SHCY93]. **Divide-and-conquer** [SHCY93]. **Dividing** [KKK11]. **DNA** [BEL17, CLST<sup>+</sup>13, CN21, HAI02, IMR08, KYG19, KB22, LSTW<sup>+</sup>17, MT14, NEL17, RLP20, TP97, YT03]. **DNA/RNA** [IMR08]. **Do** [JL96, Abb77, GGL94, JL93]. **do-it-yourself** [Abb77]. **d'objets** [Alb89]. **Document** [ABMN20, BK93b, BKW92d, DS19, FKR15, FRU<sup>+</sup>20, KNS12, LMNT16, All82, Arn93a, Arn93b, BK93c, BK93d, BK93e, KRML09, WZS95, WCW82]. **Domain** [CF85, CDC<sup>+</sup>23, GÁSA<sup>+</sup>13, PIR17, SKS96, SHvR<sup>+</sup>16]. **Domain-Specific** [CDC<sup>+</sup>23, SHvR<sup>+</sup>16]. **Donald** [Neu10, Ruc15]. **Done** [LY86]. **Don't** [Aku94, BL94, Aku95, CEPR10, KR97, MBY91, NR17]. **DOT** [BGWXP22]. **doubling** [CL09]. **down** [GOMSJVGP08]. **DPI** [ABBH<sup>+</sup>16]. **DRAM** [WSVS22]. **DRAM-CAM** [WSVS22]. **DREAM** [HRN<sup>+</sup>15]. **DReX** [ADR15]. **Drive** [KK02, BC06]. **driven** [BCD14, FWDL15, GHS82, Mus03, NWE99, Sak21, TJGY22]. **Drosophila** [YCJK08]. **Drum** [SP16]. **DSL** [BCD14]. **DSL-driven** [BCD14]. **DTDs** [BNSV10]. **Dublin** [ABB93]. **duel** [JHU<sup>+</sup>24]. **duel-and-sweep** [JHU<sup>+</sup>24]. **Duration** [XJT<sup>+</sup>04]. **Duration-constrained** [XJT<sup>+</sup>04]. **during** [Sch81]. **Dynamic** [AGT89, ALLS07, ACR20, BSM<sup>+</sup>07, BFNP10, CWL<sup>+</sup>21, CL95, Mye98, Sch95, WBA83, ZLN11, ADM<sup>+</sup>13, BD98, CHLS07, CGM10, FG95b, FhDAF09, HSL10, JSH09, KT14, LYWL08, Mye99]. **Dynamics** [JM85, MSP<sup>+</sup>17].

**e-commerce** [ZCT14]. **early** [San09]. **East** [Sal01]. **EBWS** [KPP19]. **ECG** [TZH<sup>+</sup>13]. **Economical** [McC76]. **Ecosystem** [AWD<sup>+</sup>18]. **Edge** [FS13, BYK22, KLL23]. **edge-centric** [BYK22]. **Edge-coloring** [FS13]. **Edinburgh** [AOV<sup>+</sup>99]. **Edit** [CZOdlH17, JWZ94, Med23, RKH02, AEP06, AK12, BC95, CM07, Leu97, LT97, QWX<sup>+</sup>13, SKS96, ZXL<sup>+</sup>13]. **Edited** [Ano97b]. **editing** [DOS93]. **edition** [Ano12]. **Editor** [Pik87, Pik00, Rei77, Ritxx, Ano17]. **Editorial** [AGS93a, AGS93b, AGS93c, AGS93d]. **Editors** [Dav82]. **Edsger** [FvGGM90]. **EDTV** [Rei77]. **education** [Ker04]. **effect** [Mha05]. **effective** [AG06, FKSB06, GN19, XLC19, ZGS<sup>+</sup>15, KC11, PC02, ZKA12]. **effectively** [ADT15]. **effectiveness** [BSY00, DNR06]. **Efficiency** [ALR08, Col91, San15]. **Efficient** [AC75, ACR01, ALV92, ALLL98a, ALLL98b, Apo93b, BKLE18, BDB90, BC13a, BA15, BC13b, Ben94, BBH<sup>+</sup>87, BYHT18, BT21, BYK22, Bra94, BC94, BG95, CF06, CCF13, CFP19, COZ09, CGR02, CDDM05, CCI<sup>+</sup>13, CLT07, CGPS13a, CDC<sup>+</sup>23, CR95c, DA18, DGG<sup>+</sup>19, EMC96, FMP20, FMMS20, FRU<sup>+</sup>20, FT04, FM06, GC01, GP01, GP03, Gaw12, GLS07, GWX<sup>+</sup>23, Gon83, GM17, GMAS22, Gue90, GZ10a,



GS06, HHM<sup>+</sup>13, HL10, HH16, HW12, KR81a, KR81b, KR87, KRS97, KS94,  
 KT14, KKK11, KRR17, Kos89, LV86a, Lau01, LP13, LKL02, LOZ<sup>+</sup>24,  
 LTL04, MK90, MC24, MHT09, MOSZ18, NHN<sup>+</sup>20, NWE99, NdMM02a,  
 NK07, Owo93, PAMP12, PDC94, QLY07, SRV<sup>+</sup>19, SRK20, SA96, SOR16,  
 SvS14, SWW<sup>+</sup>12, SLZ<sup>+</sup>20, SMW<sup>+</sup>23, TZYH14, TJGY22, WZL<sup>+</sup>23,  
 XQW<sup>+</sup>13, Yun12, ZJP<sup>+</sup>18, ZXL<sup>+</sup>13, AB09, Aoe89, CPT92]. **efficient**  
 [CGR03, CLZ<sup>+</sup>15, CW13, CD96, Cox10b, ESL89, FNP09, Fil21, FHP92,  
 GPR95b, GL89, GLS92, LV86b, LVN87, Lee82, Maa06, MRA<sup>+</sup>17, NAR08,  
 PLL10, QWX<sup>+</sup>13, SY23, TJD<sup>+</sup>17, VD17, YKGS11, YB13, YHV<sup>+</sup>15, ZCT14,  
 ZYQ<sup>+</sup>15, ZKA12, ZYX<sup>+</sup>12]. **Efficiently** [ADR15, DF00, ADM<sup>+</sup>13, Kim99].  
**effort** [LG16]. **egrep** [Woo87]. **Eighteenth** [ACM86, ACM99a]. **Eighth**  
 [ACM97b, B<sup>+</sup>02, ACM76]. **Einführung** [HU92]. **Elaborating** [CA18, CA20].  
**Elastic** [BGP<sup>+</sup>22, BPPR20]. **Elastic-Degenerate** [BGP<sup>+</sup>22, BPPR20].  
**Electron** [DMWW77]. **Electron-Beam** [DMWW77]. **Element** [MGH93].  
**Elements** [UFA<sup>+</sup>24]. **Eleventh** [ACM92b]. **eliminants** [AS85].  
**Eliminating** [CDP16a]. **Elimination** [Han13b, CK04]. **Emacs** [MS20].  
**email** [WR15]. **Embeddable** [Fri97b]. **embedded** [TLLL07, TLLL09].  
**Embedding** [BDFR08, Fu97, KKM<sup>+</sup>13, ZCÖZ12]. **embeddings** [CMO<sup>+</sup>08].  
**Emergence** [Joh01]. **Emilie** [Sal01]. **Empirical** [CL92]. **emptiness**  
 [Kar82, Rob79]. **empty** [Zia96]. **emulator** [VVV04]. **Enabling**  
 [GWX<sup>+</sup>23, AB09]. **Encoded** [CFG12, DS04, KS01]. **Encoding**  
 [HAR10, KR92, RTT02b, Yun12, FDG<sup>+</sup>11, KR89, LS09]. **Encrypt**  
 [BTTF02]. **Encrypted** [MBP22, SOR16, HH16, MRR<sup>+</sup>18, OSSK16, WR15].  
**Encryption** [VRC24]. **Encryption-based** [VRC24]. **End** [JLH18, JLHB92].  
**End-to-End** [JLH18]. **ends** [ESL89]. **Energy** [CDC<sup>+</sup>23, GMAS22].  
**Energy-Efficient** [CDC<sup>+</sup>23, GMAS22]. **Engine**  
 [CZCD09, Hab04, PWW<sup>+</sup>11, RVV23, SK17, VCS<sup>+</sup>12, BC06, CW13,  
 HRN<sup>+</sup>15, WL15b, dKM04, GWX<sup>+</sup>23]. **Engineering**  
 [Bao93, CS18, CFKT17, FHP92, IEE94a, RMK<sup>+</sup>14]. **Engineers**  
 [NEH90, Lut02]. **Engines** [ABBH<sup>+</sup>16, TBS06, ZV97]. **English** [Ayc15].  
**Enhanced** [KTY<sup>+</sup>18]. **enhancement** [BKM95]. **enhancing** [FSL<sup>+</sup>15].  
**enough** [MR09a]. **Enriched** [MSS<sup>+</sup>19]. **enrichment** [LGZ<sup>+</sup>14]. **ensembles**  
 [Alb89]. **entails** [Kar82]. **entire** [YCJK08]. **entity** [BDMT16, DLF<sup>+</sup>15].  
**entropy** [KS96]. **Entropy** [YDDB15, CR95a]. **Entropy-Scaling**  
 [YDDB15]. **Enumerating** [McI04, PSP<sup>+</sup>18]. **Enumeration**  
 [ABMN20, FRU<sup>+</sup>20, CLZ<sup>+</sup>15, LQL<sup>+</sup>16]. **Enumerative**  
 [JA17, JXA20, Tan14]. **Environment** [LHCH93, LZ96, MM02, SBR<sup>+</sup>07].  
**Epoch** [OSM94a, OSM94b, OSM94c]. **Epsilon** [GJ16, HSW97].  
**Epsilon-Free** [GJ16, HSW97]. **Equality** [Gin67]. **equally** [NCV10].  
**Equation** [CZ01, COZ09, MOSZ18, NC92]. **Equational**  
 [OND98, AFI98, DL03, NWE99, RW93]. **Equations**  
 [HOS85b, Ver70a, ZGS<sup>+</sup>15, HOS85a, KGA<sup>+</sup>12, Sta89, Ver70b]. **Equivalence**  
 [Asp12, HSJ04, Hir96, KN12, Liu14, SA77, CS11b, Kap69, MAI<sup>+</sup>16, SH85,  
 MPdS12]. **equivalences** [CDP16b]. **erasure** [Tej20]. **Erdos** [AW89].



**EREW** [PDC94]. **Ergodic** [Shi92, ST96a]. **Errata** [Ver70a]. **Error** [RJK79, FSL<sup>+</sup>15, XQW<sup>+</sup>13]. **error-containing** [FSL<sup>+</sup>15].  
**Error-Correction** [RJK79]. **error-tolerant** [XQW<sup>+</sup>13]. **errors** [AAK<sup>+</sup>09, AAB<sup>+</sup>09, BLLP90, CEPR10, KNT11, San95, WM92a]. **ESA'93** [Len93]. **Espoo** [GU95]. **Essential** [KPP19]. **essentially** [GHK14].  
**Essentials** [Bal15]. **Estimating** [TP07a, TP07b]. **Estimation** [CZW15, KBB01, KC87, JKNS00, KS96, STKD20, TCCK90]. **Euclidean** [GK86]. **Eugene** [Hig95]. **EUODHILOS** [OSM94a, OSM94b, OSM94c].  
**EUODHILOS-II** [OSM94a, OSM94b, OSM94c]. **European** [Len93].  
**EUROSAM** [Ng79]. **EUUG** [Ano87]. **Evaluating** [ADR15, FLC<sup>+</sup>19, RSG<sup>+</sup>19, SSSS10, LM12]. **Evaluation** [BC13b, Cha02a, D'A98, GL01, Reg92, Ses96, VB98, YJ84, ADR03, ADR06, BSY00, Chi17, CD89, DR06, Hur84, Jay92, JLFL14, Jør92, KEG<sup>+</sup>08, MRA<sup>+</sup>17, MM03, PSK08, Smi91a]. **even** [LR14]. **Event** [CvW18, SGCW14, dH05, CK08, LG16]. **Event-based** [dH05].  
**event-processing** [CK08]. **Events** [CEW58, Kle56]. **EventScript** [CK08].  
**everyone** [Nar91]. **Everything** [NTS93]. **Evolution** [CS18, Hud89, MS20].  
**evolvable** [LLC03]. **Exact** [AOK02, BCT94, CL97, CHL14, CHPZ95, CH97a, FL12a, FNU02, GG91, GG92, IMM<sup>+</sup>22, KM13, Liu14, MIH17, MA12, PP09, WSVS22, ABH<sup>+</sup>14, Bak78, CH92, CGG90, ĎHPT10, FL13, FS22, HTX17, KB22, Kar82, Lec07, NF04, QWX<sup>+</sup>13, SSL21, Tan14, THG17, TZh<sup>+</sup>13, YHV<sup>+</sup>15]. **exact-match** [Bak78]. **examined** [ORT09]. **examining** [BvdM23]. **Example** [CFCK22, Qui02, Qui00]. **Example-based** [CFCK22]. **Examples** [BDD<sup>+</sup>14, Bra94, BC94, KK08, BGHZ15, GHS12, Kod79, LSO17, SG12, SG16].  
**Exchange** [RMK<sup>+</sup>14, AL08, HSL10]. **excluding** [MBH20]. **EXE** [CGP<sup>+</sup>08].  
**Execution** [AWD<sup>+</sup>18, Han92, MZZ10]. **exemplars** [CJR<sup>+</sup>21]. **Exercise** [Wen93]. **exercises** [BH07]. **exhaustive** [IM13, KJS17]. **Exit** [MOG98].  
**exotic** [MR82]. **Expanding** [Ham88, VHC88]. **Expansion** [CF85, Gue90, YBTB23]. **Expect** [Fri97b]. **Expected** [CZOdlH17, KU99, CL90, Sch88a]. **experiment** [GHS82, Rus85].  
**Experimental** [ACR01, GIMV03, HBRV10, Lec95, JLFL14]. **Experiments** [Lec98, MNS84, Smi91b]. **Expert** [LYT<sup>+</sup>23, WSS94]. **experts** [B<sup>+</sup>07].  
**Explicit** [For02, CFK07]. **Exploiting** [GKW<sup>+</sup>10, JDxD13, Kul11, MKF91, KKM<sup>+</sup>06, RéM17]. **exploration** [FWDL15, SW12]. **explorative** [Ker04]. **exploratory** [ORPF13]. **Explore** [Cop91]. **EXPLORER** [FWDL15]. **Exploring** [CvW18, CMRV10, YB13].  
**explosion** [PLT14]. **expressibility** [tC09]. **Expression** [Anoxx, Asp12, BC13b, Bon07, BTC06, CZ01, CJBW16, CBD<sup>+</sup>23, CKW09, Cox07, Cox09, Cox10a, Cox12, Dav99, EU98, FC04, GJ16, GRS99, Gib21, Gol93, Han13a, Hol84, Ier09, JLK<sup>+</sup>20, KM92, KM95a, KN12, LKM23, Lee09, LT16, LN19, MPN<sup>+</sup>14, Mye92, MOG98, NR99a, NR01, Nav01c, Nav04a, NR04, NR21, NH11, OS11, OWP16, PPA10, RD17, Ric79, Sab76, Sca11, SD95, SM99, SvS14, SL14, SL17, VCS<sup>+</sup>12, VB23, WPKL13, WMM95, YP12,



YQW<sup>+16</sup>, ZCH23, vNG01, AI18, Agu23, BAC12, BvdM17, BBvdM21, BFC08, BFG09, BG22, BFS04, BH07, COZ09, CJBW13, Chi17, CLT07, CGPS13b, CS11b, Cox10b, CS22, DF00, FDG<sup>+11</sup>, Fil21, Fos89, Goo05, GHR14, HN11, Hos06, HVP00, HP01, HP03, HVP05, Hun79, KS08, Kar82, Ker07, Lee82, Lei80, Lif03, LLL<sup>+24</sup>]. **expression** [MMI14, Mor90, NNSP22, NT20, ORT08, ORT09, PIR17, PLT14, PCS99, RTO15, SJ13, SCF<sup>+17</sup>, Spe85a, Spe85b, Stu03, Stu07, SSYW19, SLZ<sup>+20</sup>, SMW<sup>+23</sup>, Tho68, WXZY12, WL15b, WBS22, WW03, WR15, Yam19, YKGS11, YCJK08, YB13, YBTB23, ZZH16, Zia96, ZC99, ZYX<sup>+12</sup>, dLFM07].

### **Expressions**

[ARM<sup>+19</sup>, AM91, Ano68, Ano12, Anoxx, Ant95, ACT10, Bac94, BDD<sup>+14</sup>, BR20, Bee13, BF97, Ber00, BGNV10, Bra94, BC94, BMMR19, BK93b, BKW92d, Brz62, BP63, Brz64a, Brz65, CDLV99, CDLV02, Cam99, CSY03, Cha01, Cha02a, CLOZ04, CJM12, CDJM15, CGR02, CHP92, CT23, CC97, CGS17, CDC<sup>+23</sup>, CDL95, CDL99, Dav03, Dav04, Dav21, Dav22, DM11, FLS98, FU82, Fri02, GHKL18, GGM12, GN12, Ghi62, GS22, Gil70, Gin67, GH13, GH15, HHM<sup>+13</sup>, Hab04, HM98, Ham88, HWW06, Han13b, HJ99, Hir96, HK11, HSW97, HSW01, Hum99, IY02a, IY02b, KT06, KTU87, Kea91a, KP99b, KP99c, Kin92, KMRY20, KV15, KZ02, KST12, LS99, LS06, LZHZ98, LM01b, LOZ<sup>+24</sup>, LT09, Loh10, Mad01, MC24, MNS10, MY60, MSZ17, MR09b].

### **Expressions**

[MPdS12, MGF97, NM10, Org03, OF61, Pak91, PM78, Pat71, Pet02, Pik06, Pre99, Ray96, Rez92, SA96, Sch99, SSSS10, Sou99, TV14, TB00, Uma97, Urb23, VHC88, Wen93, WZU14, XK92, XLC19, Yam01, YPG21, ZGS<sup>+15</sup>, ZMWL20, AFI98, Ano97a, AGM05, AM95, Ant96, AOMC07, ACM02, ADU16, BCG07, BYG96, BRL13, BdFED<sup>+20</sup>, BTG83, BG91a, BDFR08, BvdM23, BS86, BNSV10, BBM21, BK86, Bra95, BK93f, BK93c, BK93d, BK93e, CGR03, CP97, CX20, Cho78, CK02b, CK08, CGPS13a, CDLM17, DL03, EZ74, EZ76, FL71, FHW10, FS19, Fri97a, Fri06a, GLRÁ11, GR92, Gef03, Gel10, GL03, GL12, GS07, GHR14, GMS12, GM17, GH09, Gue90, HW07, HY90, HWJ03, HSJ04, Hoc19, Hov12, HN00, Jan85, JSH09, Joh69, Kah06, KR22, Kap69].

**expressions** [KGA<sup>+12</sup>, Kin91, KMR21, Lar98, Lau00, Lau01, LSO17, Lei81, Lei85, LWS<sup>+16</sup>, LTV15, LR14, LM12, LM13, LMN16, Lus94, Mag81, MMDdJ11, Mor02, MZZ10, MM89, Nic03, PHXD19, PC02, PM23, PIT<sup>+03</sup>, PPPdG20, Pra97, RT18, Rob79, Rom14, Ryt89, Sak21, San15, SMS15, Sha88b, SY72, SH85, SM04, Stu07, ST19, SMT<sup>+86</sup>, TN13, TN15, UIM22, XH23, XJT<sup>+04</sup>, YH91, YH92, tC09, Hum97a, Hum97b]. **Expressive** [AGP18, BLLW12, HS08, MFRW09]. **Extend** [Cal00, dLFM07]. **Extended** [Ano68, BK93b, CTF<sup>+98</sup>, Gon02, HY90, HL97, KV15, KZ02, NR98, SvS14, Yam01, YH91, YH92, AM95, BK93c, BK93d, BK93e, CM95, GV00, JM93, RT18, Rob79, SMT<sup>+86</sup>]. **Extendible** [vNG01, MKSiA98]. **Extending** [AS04, DJ96, Jan85, Kea91a, MSRR00, PMS11, WLF14, Bak78]. **Extensible** [BAC06, KKFI<sup>+24</sup>, SNM07, BFN<sup>+09</sup>]. **Extension** [Liu86, Kau92, SNM07, MMDdJ11]. **Extensional** [DRW95]. **extensions**



[Mis89a, Mis89b, Wea94, WKR09]. **External** [GIK97, FG95b, FG99].

**extracting** [BGHZ15]. **Extraction**

[CBD<sup>+</sup>23, CT23, FKR<sup>V</sup>15, FKR<sup>V</sup>16, HHM<sup>+</sup>13, KT23, Kea91a, BDMT16, BT21, DLF<sup>+</sup>15, FKR<sup>V</sup>13, Kit94, KLR<sup>+</sup>08]. **extractor** [Agu23].

**extrapolation** [Sid95, Sid99, Sid00, Sid02]. **extremely** [AK08].

**F** [Ano97a, JGMP22]. **FA** [CKW09]. **faces** [KSWC93]. **Fact** [LSWP19].

**Factor** [ACR01, CFP19, YQW<sup>+</sup>16, Bjö93, BH96, HM00, KW05]. **factored** [Gue90]. **factoring** [DRSS96]. **Factorization** [KKP16a, KKP16b].

**Factorizations** [DW17]. **FAdo** [MR05]. **fails** [EMT23]. **fairness**

[MMDdJ11]. **Fall** [KOI94]. **Fall-in** [KOI94]. **False** [Mut97]. **Family**

[KKFI<sup>+</sup>24]. **Fascicle** [Knu05]. **Fast**

[ADR06, ADR06, ATX21, BYP92, BYKZ<sup>+</sup>92, BYR93a, BYR93b, BYP96, BYG96, BYN98, BD80, BLP18, BC13b, BS97, BGP<sup>+</sup>22, BFC08, BAM<sup>+</sup>24, BM77, Bre95, BL16, BFK<sup>+</sup>03, Bun95, CLP98, CR95a, Chu95, Cob94, CP10, Cox07, CCG<sup>+</sup>99, FL12a, Fen01a, FNU02, Gal76b, GS80, Gia93, Gil85, GWX<sup>+</sup>23, HAR10, Hor80, HS90, HS91, KBB01, KST94, KKSL01, KMP77, KMP94, K VX12, KNMH00, KRML09, LV88, LV89, Lec07, LT16, LCL06, Man94, Man97, MUHT96, MPN<sup>+</sup>14, MNS84, Mon17, Mye98, NR98, NBY99a, NR99a, NR00, NR01, NR03, Neb06, Nel96, Ott94, OM88, PPA10, Quo92, Ris16, Ros95, RLP20, Sen00, ST96a, SNZBY00, Smi91b, Sun90a, Sun90b, Tar81a, Vis91, WM92b, WM92a, YKGS11, ZS17, Zha17, ZCH23, AK08, AG84, CDC96, CNPS15, CCG<sup>+</sup>93, Co089, Der95, DC94, FDG<sup>+</sup>11]. **fast** [IHEH23, I186, KW19, KTP10, LHCK04, Mye99, NBY99c, Nav01b, PS90, RM06, RW10, SW90, Tak93, TLLL09, Vis90, WL15b, dBB08]. **Faster** [ASM17, ALP04, AKT06, BYN96, BYN99, CH02, DGM90, DGM94, Fre02, GZ94, HGT24, HN02, Ind98, Jez15, LS09, Men89, NKT<sup>+</sup>01, SB09, WT89, FCLST07, NTS93, WT88, Yam19]. **Fastest** [Col94b]. **fault**

[BKLE18, BG91a]. **fault-tolerant** [BG91a]. **Feasibility** [HTK<sup>+</sup>21]. **feasible**

[ATdM07]. **Feature** [Bac94, TBD22, Taf22, WSW16]. **Features**

[OWP16, LR14, Moo12]. **February** [ACM89, DGBH93]. **federated** [KLL23].

**feed** [MA12]. **feed-forward** [MA12]. **Feedback** [DKA<sup>+</sup>15, Joh95]. **fees**

[SN24]. **few** [CEPR10, NR17]. **FFT** [SZ05]. **FFT-based** [SZ05]. **Fgrep**

[Ash85, KBB01]. **Fibonacci** [IMS97]. **field** [WSW16]. **fields** [CRV06]. **Fifth**

[ACM06, ACM93b, AOV<sup>+</sup>99]. **Fighting** [ZGY<sup>+</sup>16]. **File**

[IK83, Man94, Man97, ZJP<sup>+</sup>18, All82, KCK93]. **Files**

[ABF96, BH85, BBH<sup>+</sup>87, Man86, Pol01, TMK<sup>+</sup>02, ZMSD93, Ayc15, CEMW91, TM05b, TM05a]. **Filling** [LJZZ13]. **Filter**

[CCH09, FU98, KNMH00, CMS08, ZC89]. **Filtering**

[BAM<sup>+</sup>24, GMAS22, K VX12, KRML09]. **Filters**

[WZJH12, ZS17, Hos06, MA12]. **Filtration** [PW95, ST96b, ST96c, LLL13].

**Finder** [NTS93]. **Finding**

[ATX21, ALLT11, Ben94, Hig86, Iba97, KS11a, KF91, Man75, PRU11,

RVV23, VB98, ZD95, BD80, GHST17, LMM17, Lee82, Yam19]. **Fingerprint**



[DS19]. **Fingerprint-Based** [DS19]. **Fingerprinting** [LZ18]. **Finite** [Ant95, Bow87, CZOdIH17, CLOZ04, CM58, Cho78, FG89, GHKL18, Ghi62, Gol93, GH13, GH15, HSW97, HSW01, JA17, JXA20, KPR97, KPR00, KV15, LY86, Mel95, Pet92, RS59, vNG01, Ant96, BDFR08, BT21, BK93f, Gaá04, HW07, Hur84, Kle56, Kod79, Lei80, Lei81, MMS14, Rou21, Ryt89, SLTB<sup>+</sup>06, SH85, VHL<sup>+</sup>12, VW11]. **Finite-State** [CZOdlH17, vNG01, JXA20, Gaá04, HW07, MMS14]. **finitely** [AFI98]. **Finland** [GU95, KS12a]. **FIRE** [KS08]. **FIRE/J** [KS08]. **Firewall** [AV23]. **firmware** [ZZJC20]. **First** [BK93g, Len93, Wal89, ACM99b, BLSS03, BD98, BAC06, BRO16, Kau92, Pie08, IEE94a]. **First-class** [Wal89, BAC06, BRO16, Pie08]. **first-order** [BLSS03, Kau92]. **Fixed** [BYCMW94, CF85, KF91, Sut21, ABH<sup>+</sup>14, GS81a, HOK18a, HOK18b]. **fixed-length** [HOK18a, HOK18b]. **Fixed-Parameter** [Sut21]. **Fixed-Queries** [BYCMW94]. **Fixed-Size** [CF85]. **FL** [CVP86]. **FlashProfile** [PJP<sup>+</sup>18]. **FlashRelate** [BGHZ15]. **Flexible** [LY17, NR02, SvS14, ME97, MM07, NR00, Nav01b, SNZBY00, Lut02]. **Florida** [IEE88, IEE97]. **Flow** [FO76, HEWK03, FWDL15, MF96]. **Fluorescent** [HFI<sup>+</sup>08]. **FLUX** [Che08]. **FM** [KC21]. **FM-index** [KC21]. **fmpRPMF** [LZ18]. **Focusing** [Kri09, Zei08]. **Font** [Wol86]. **force** [GHK14]. **Forecast** [CDM11]. **Forecasting** [SF01]. **foreign** [FF08]. **Forest** [VRD01]. **forests** [CADA18]. **Foreword** [Cro92a]. **Form** [BMMR19, Lar98]. **Formal** [AOMC07, BGJ89, CSY03, Co089, FKR15, HU92, MGH97, Pag78, ZA87, FKR13]. **formale** [HU92]. **Formalisation** [WZU14]. **Formalising** [BBvdM21]. **formalism** [CM90]. **Formally** [AH14]. **formation** [Fos89]. **Formatter** [ZA87]. **forms** [AOMC07]. **formula** [CS22, KC11]. **formulae** [WD99]. **Formulating** [JM85]. **Fortran** [PCS99, Wea94]. **Forum** [Fra83, GHF83a, GHF83b, WNL<sup>+</sup>83]. **Forward** [Dur94, MA12]. **Forward-Branching** [Dur94]. **forwarding** [SDA17]. **FOSS** [Bol02]. **foundation** [Pie08]. **Foundations** [AAB<sup>+</sup>17, IEE89, IEE90, IEE92, IEE93, IEE95a, IEE97, IEE98, IEE09, BGWXP22, Win78]. **Four** [Mye92]. **Fourteenth** [ACM87, ACM95b]. **fourth** [ACM92d, A<sup>+</sup>08]. **FPGA** [GMAS22, KBB01, LT09, TK07, YP12, ZCH23]. **FPGA-Based** [LT09, TK07]. **FPGA-CPU** [ZCH23]. **Fragmentary** [HSTS01]. **fragments** [All82, KMMPN85, OA17]. **frame** [KB22]. **Framework** [BGM19, DJ96, KK95, VKPI17, WMGS19, AS04, AMRV16, BKLE18, BYF96, DLF<sup>+</sup>15, FKR13, KKM<sup>+</sup>06, KKM<sup>+</sup>13, KMS<sup>+</sup>03, PJP<sup>+</sup>18, TZh<sup>+</sup>13, ZKA12]. **France** [Bun94, KU09, Ng79]. **Francisco** [ACM92c, ACM95a, DT87, KP15, USE92]. **fraud** [VD17]. **Free** [GJ16, HM98, HWW06, Han13a, HSW97, HSW01, Joh69, MFMA15, Nag21, SBHM94, Gef03, HWW07, HY92, HSJ04, KGA<sup>+</sup>12, Lif03, Mye95, tC09, Bol02, MFMA17]. **Freeness** [Nag21]. **FREME** [WL15b]. **French** [Alb89]. **Frequent** [BGM19, EASK14]. **Friedl** [Ano97a]. **Friendly** [SJNS19]. **front** [JLHB92]. **Frontier** [CHZ06, D'A98]. **Fukuoka** [AT02]. **Full** [ZJP<sup>+</sup>18, KWLL08, NM07, OKT92]. **Full-Path-Indexed** [ZJP<sup>+</sup>18].



**full-text** [KWLL08, NM07]. **Fully** [CDL95, IST05, Jez15, FG95b, GR99].  
**fully-dynamic** [FG95b]. **Function**  
 [AK09b, BR20, Jon13, MCP17, Ric79, Bar84b, Bjö93, CT96, FF08, GT90].  
**Functional**  
 [ACM92c, Bir10, BK89, Hud89, JR15a, Pou93, Web95, Che08, DA20, Fil21,  
 FHW10, GÁSÁ<sup>+</sup>13, HJW<sup>+</sup>92, Mal93, OR11, QTO<sup>+</sup>20, Rob87, Sch88b, TA90].  
**Functions**  
 [MFMA15, MFMA17, Sch91a, Sch91b, CFLH<sup>+</sup>22, Dow93, Kod79, Yod91].  
**functors** [dSOMY15]. **Fundamental** [Sym85]. **Further**  
 [Gro91a, Sid99, KR22]. **Fusing** [SVMM17]. **Fusion** [SdM01]. **future** [LG16].  
**fuzzers** [CGZ<sup>+</sup>13]. **Fuzzy**  
 [GJ16, GN01, RFD23, BC13a, WSS94, WLF14, ZBST14].

**G.** [Akl78]. **Gabriel** [Lab12a, Lab12b]. **GADT** [BGWXP22]. **GADT-style**  
 [BGWXP22]. **GADTs** [KSVJ15]. **gains** [KGP<sup>+</sup>05]. **Galen** [Gue87].  
**Galianosi** [Gue87]. **Galil** [Ano97b, AG86]. **Gap**  
 [BGJ01, KM92, KM95a, ZKCY07]. **Gapped** [HGT24, NHN<sup>+</sup>20]. **Gaps**  
 [CIM<sup>+</sup>02, NR03, BGVW12]. **GAs** [Sut21]. **Gases** [Mun07]. **GateKeeper**  
 [BAM<sup>+</sup>24]. **GateKeeper-GPU** [BAM<sup>+</sup>24]. **gear** [WOQ<sup>+</sup>07]. **gear-shifting**  
 [WOQ<sup>+</sup>07]. **Gender** [Pak91]. **Gene** [Bon07, YCJK08]. **General** [MR92,  
 NR99b, VCS<sup>+</sup>12, WSVS22, AAB<sup>+</sup>86, Cha02c, Sch91a, Sch91b, ZHWW12].  
**General-Purpose** [WSVS22, AAB<sup>+</sup>86, Sch91a, Sch91b]. **Generalization**  
 [Shi00, Shi04]. **Generalized**  
 [Abr87, BK86, GL86, Ham88, Hei01, Hir96, Hol84, MAI<sup>+</sup>16, OP16, VHC88,  
 Wen93, FL71, Kin91, SW90, Sid95, Sid99, Sid00, Sid02]. **Generalizing**  
 [SKS96]. **Generated** [AK09b]. **generates** [UIM22]. **Generating**  
 [CGP<sup>+</sup>08, Jør92, Knu05, WXZY12, BJK<sup>+</sup>12]. **Generation**  
 [AGT89, GFH82, GWvG10, HKR92, Ker04, Pat71, SY72, ZMWL20, BDB90,  
 BA06, FKSB06, Gan89a, GHS82, KKP92, MSRR00, PPPdG20, SMS15].  
**Generative** [TD18, KS08]. **Generator**  
 [LS79, VSM87, XLC19, AVN22, CLS95, ESL89, FHP92, MR82, RT18].  
**Generators** [Fra83, GHF83a, GHF83b, WNL<sup>+</sup>83, Gan89b]. **Generic**  
 [KBB01, WMGS19, ZKA12]. **Genesis** [SDA17]. **Genetic**  
 [GC01, RND97, BDMT16, MMDdJ11, Sel84]. **GenMatcher** [WMGS19].  
**Genome** [WGL<sup>+</sup>21, SVM14]. **Genomic** [CCH09]. **GenSeq** [WGL<sup>+</sup>21]. **geo**  
 [ZBST14]. **geo-textual** [ZBST14]. **Geometric**  
 [AK09a, CK92, CDEK95, KP96a, Ukk10, AK08, FMdB99, KP96b].  
**geometrical** [Akl78, HLN09, Man76]. **geometrically** [NA90]. **Georgia**  
 [ACM99b, IEE09, ACM83]. **German** [HU92, SM74]. **Germany**  
 [ACM87, AGS93e, Len93]. **Gestalt** [RM88]. **Gibbs** [CRV06]. **Given**  
 [AW89, Bur11, Lei80]. **Glanville** [MSRR00]. **Global** [ZCS<sup>+</sup>12]. **Globbering**  
 [HHW<sup>+</sup>99]. **Glossary** [ZV97]. **Glossary-based** [ZV97]. **Glushkov** [ZC99].  
**GNU** [Hae89, OSM94a, OSM94b, OSM94c]. **Go** [Far19]. **Goal**  
 [Gud92, Nil90]. **Goal-Directed** [Gud92, Nil90]. **Gödel's** [Pux97]. **Going**



[LS06]. **Good** [BC94, MLM<sup>+</sup>08, GPTV93, PVA<sup>+</sup>92]. **Google** [Cox12]. **GOTO** [MGF97]. **Goyvaerts** [Ano12]. **GPP** [VCS<sup>+</sup>12]. **GPP-Grep** [VCS<sup>+</sup>12]. **GPU** [BYB<sup>+</sup>24, BAM<sup>+</sup>24, DK13, KW19, KMM15, LLC17, MIH17, SR16, TLS16, VB23, ZS13, ZYX<sup>+</sup>12]. **GPU-accelerated** [BYB<sup>+</sup>24, SR16]. **GPU-based** [ZYX<sup>+</sup>12]. **GPU-to-GPU** [ZS13]. **GPUs** [ARS16, LLCC13, LPJ23, MAC14, VKPI17, YB13]. **Grace** [HNB<sup>+</sup>13]. **grading** [Mor02]. **Graham** [MSRR00]. **Graham-Glanville** [MSRR00]. **Grails** [JNS08]. **Grained** [FL99, TTO<sup>+</sup>22]. **Gram** [ST95, HKN14, KST94, KWL07, KWLL08, KPA10, Sal12]. **Gram/2L** [KWL07]. **GraMi** [EASK14]. **Grammar** [Wat96, Web95, Man06, Wat03]. **Grammars** [BK93b, BKW92d, Pat71, SBHM94, BK93c, BK93d, BK93e, KGA<sup>+</sup>12, MMI14, SV09, SH85, Ier09]. **Grams** [ST04, STK06, Ukk92]. **Grand** [Bao93]. **Graph** [AAB<sup>+</sup>17, AYS<sup>+</sup>24, BLLW12, BLR14, BYNTK21, BGJ01, CFM17, CMNP17, D'A98, Eke95, FLM<sup>+</sup>10, Fu97, FMG23, KS93, LYT<sup>+</sup>23, MNP<sup>+</sup>23, MSS<sup>+</sup>19, PJMR14, RKH02, SK17, WHZ<sup>+</sup>17, Zue96, A<sup>+</sup>08, BKLE18, BLR11, BSTU08, BYB<sup>+</sup>24, BCD14, BYK22, EASK14, FWW13a, FWW13b, FWW13c, FMG22, GPTV93, LRV13, MCF<sup>+</sup>11, MCF<sup>+</sup>14, SW93, SHvR<sup>+</sup>16, SGCW14, Sri88, TG96, ZXL<sup>+</sup>13, ZCÖ09, ZCÖZ12]. **Graph-** [CMNP17]. **Graph-based** [PJMR14]. **graph-oriented** [GPTV93, TG96]. **Graph-Structured** [BLLW12]. **Graphic** [LLLC17]. **graphical** [CMW87, LLS12]. **graphics** [AK08]. **GraphLog** [CM90]. **Graphs** [BJM79, BYNTK21, EMTG23, EMT23, Fu95, Fu96, HPM94, LMV16, LSWP19, MY60, RHR<sup>+</sup>21, TV14, WD99, BBG13, BÖ13, FFTD15, KC15, QQC<sup>+</sup>13a, QQC<sup>+</sup>13b, SVM14, SWW<sup>+</sup>12, ZYQ<sup>+</sup>15]. **Graspan** [WHZ<sup>+</sup>17, ZWH<sup>+</sup>21]. **great** [Sch81]. **Greco** [Sal01]. **Greco-Roman** [Sal01]. **Greece** [Len11]. **Greedy** [FC04, KR92, TWZ23, TU88, Huc21]. **Greek** [Gue87]. **Greek-Armenian** [Gue87]. **Grep** [Pit98, VCS<sup>+</sup>12, Goe95, NTS93, Roo99, Tay97, Kah07, Kah09, Sid99, Sid02, Hol84, Bar90, Hae89, Nav01b, Woo86, Hum88b, BK09]. **Greppin** [Sal01, Gue87]. **Grepping** [HHW<sup>+</sup>99]. **Greps** [Hum88a]. **Groovy** [JNS08]. **ground** [KR95]. **Group** [DT87, KC99, GMC02]. **Grouping** [OR12]. **Groups** [Sch22, Joh69]. **gset** [Liu14]. **guarantees** [FWW12]. **guards** [GJS20, JM90, KSVJ15, Rai99]. **Gueriguian** [Sal01]. **Guessing** [Pak91]. **Guide** [GS93a]. **guided** [FhDAF09, Nav01a]. **Guidelines** [Anoxx, Dav99]. **Guild** [B<sup>+</sup>07].

**Hairpin** [CDJM15]. **Hamiltonian** [YT03]. **Hamming** [HOK18a, AD11, GF08, HOK18b, Ris16, TT20]. **HAMPI** [KGA<sup>+</sup>12]. **Handwritten** [CLP95, SKS96]. **hard** [LMM17]. **Hardware** [Bur84, HH83, HKL<sup>+</sup>14, Lee09, Lut02, MGW14, OWP16, PK85, Rob92, ZS17, AK08, ACF05, Bur82, FNP09, GZ10a, Hur84, KKM<sup>+</sup>06, MP88, MLC08, TYNM86]. **hardware-accelerated** [MLC08]. **hardware-assist** [KKM<sup>+</sup>06]. **Hardware-Based** [HH83]. **Hardwired** [BK75]. **harmonic** [BCWG09].



**Hash** [CCH09, Dav73, RJK79, Sch91a, Sch91b, KB22]. **Hashing** [Bur84, CKW09, CG79a, CG79b, GIG77, Gri79, Har71, LLLC17, TK07, ASM17, Bur82, Kim99, MKSiA98, TLLL07, XMLC11]. **Haskell** [HJW<sup>+</sup>92, Jon07, VLP17, Wen93]. **Hate** [HHW<sup>+</sup>99]. **Hausdorff** [Rot91]. **Head** [LY86, WWW<sup>+</sup>16]. **Head-Modifier** [WWW<sup>+</sup>16]. **Heads** [JL96, GGL94, JL93]. **Healthcare** [BTTF02]. **height** [Tho81]. **Help** [DKA<sup>+</sup>15, FR17]. **helpful** [VVV04]. **Helsinki** [KS12a]. **Hershey** [ACM76]. **Heterogeneous** [MM02, MM03]. **heuristic** [BCD98, Mus05]. **Heuristics** [CIL<sup>+</sup>03, Han13b, KR92]. **Hierarchical** [GM02, IK83, Loh10, Co089, KAT07]. **hierarchy** [Lar98]. **High** [BYHT18, BTC06, CGM10, Ear74, JLK<sup>+</sup>20, JGZL12, LK90, Lee09, LPT12, PW12, RSG<sup>+</sup>19, TS05, VCS<sup>+</sup>12, WGL<sup>+</sup>21, Wea94, YP12, ASJDW18, Dit78, HC87, KM84, LK88, LH13a, PLT14, SW12, SNB<sup>+</sup>19, TLLL07, XMLC11, ZYX<sup>+</sup>12]. **High-level** [Wea94, ASJDW18, HC87, SW12]. **High-Performance** [JLK<sup>+</sup>20, Lee09, WGL<sup>+</sup>21, YP12, CGM10, SNB<sup>+</sup>19]. **High-Speed** [BYHT18, LK90, PW12, VCS<sup>+</sup>12, LK88, PLT14, TLLL07, XMLC11]. **High-Throughput** [BTC06, LPT12]. **Higher** [HW12, JR15b, KU99, SdM01, Chl08, NRO12, OR11, Pie08, Zei08]. **Higher-Dimensional** [KU99]. **Higher-Order** [HW12, JR15b, SdM01, Chl08, NRO12, OR11, Pie08, Zei08]. **Highly** [BEL17, BKLP97, BKL<sup>+</sup>02, GHK<sup>+</sup>91, Nav21b, Nav21a, NEL17, BFKL13, CDC96, MAC14]. **highly-threaded** [MAC14]. **Hilbert** [HHW<sup>+</sup>99]. **History** [JDXD13, LG16, Ritxx]. **HMM** [SB09]. **Holes** [YGG<sup>+</sup>23]. **Holism** [MMZ10]. **Holistic** [BKS02]. **Homology** [Zha07]. **Hong** [B<sup>+</sup>02]. **Honnef** [Len93]. **Horspool** [BYR92, Neb06, Rai92, Smi94, TJMC20]. **Host** [ZS13]. **Host-to-Host** [ZS13]. **Hotel** [ACM83, Bao93]. **Hough** [KC87, SA77]. **HTTP** [BBK12]. **Huffman** [CFG12, DS04, FT04, KS01]. **Huge** [NR21]. **human** [KSWC93]. **Hy** [Lia84]. **Hy-phen-a-tion** [Lia84]. **Hybrid** [CLP95, LZHZ98, LLC17, SF01, SW09, VB12, AVN22, Gri85, LLL13, SMW<sup>+</sup>23]. **Hybridizing** [RFD23]. **HydroJ** [LLC03]. **hyogen** [SM04]. **Hypercube** [Les94]. **Hypermedia** [LZ96]. **Hypertext** [ALL97, ALL00, Nav98, PK95, Nav00, SD91a, SD91b]. **Hypothesis** [Liu14].

**I/O** [PSK08, ZYQ<sup>+</sup>15, dBB08]. **IBM** [HKL<sup>+</sup>14, Wei84]. **ICL** [CPW88]. **Icon** [Gri83, Gri85, Wal89]. **Iconic** [GL86]. **ID** [BCD98]. **Ideas** [Bee81, Wol90]. **Identification** [Cob94, LZ18]. **Identifying** [FLSS93a, FLSS93b]. **Identities** [McI85b, McI85a]. **idf** [TP07a, TP07b]. **Idiom** [KKM<sup>+</sup>13, KKM<sup>+</sup>06]. **IDPM** [LJH<sup>+</sup>17]. **IEEE** [Bao93, CVP86, IEE09]. **IFIP** [FGR72]. **ifs** [Edw07]. **II** [AU73, Nav21b, OSM94a, OSM94b, OSM94c]. **Illinois** [Hwa85, Hwa85, Rob87]. **illustrated** [Moy24]. **illustrating** [HWF90]. **Image** [DS19, How97, LV94, SN92, VB98, ASG99, AGS96, ZC89]. **Images** [GR96, KPR97, KPR00, KS06, How96, KS05, YCJK08]. **Imaging** [AGS93a, AGS93b, AGS93d, AGS93e, AGS93c]. **immersion** [HFI<sup>+</sup>08]. **impact** [MBH20, NEH90, NCV10]. **Implement** [Cha01, Cha02a, ADM<sup>+</sup>13].



**Implementation** [Bar81, DNM00, Gim73, Har71, HOS85a, HOS85b, LZ18, MHT09, RND97, TT22, VKPI17, Vin77a, Vin77b, Yun12, Aoe89, AG84, Bro77, MK90, NK07, OA17, PLL10, PD12, PCS99, ZYX<sup>+</sup>12].  
**implementations** [Nak14]. **Implementing** [AM91, Gri83, LT90a, WT88, WT89, BBvdM21, BD98]. **implication** [LS10].  
**Implicit** [Cha01, Cha02a]. **Imply** [Gal76b]. **important** [Jed87]. **Improve** [Bon07]. **Improved** [BY89, BFG09, CMO<sup>+</sup>08, CM08, GG86, GP90, Han13a, IS86, KV15, KZ02, LSW08, LJH<sup>+</sup>17, LDI98, LJZZ13, Nav98, Nav00, Pol13, RKM21, RFD23, Tan14, Ayc15, BC95, Oph89, SSYW19]. **improvement** [Cha87]. **Improvements** [CK92]. **Improving** [AYS84, Bir77b, DHPT10, Gal79, GKW<sup>+</sup>10, Hyy08, KCPC13, NBY01, YQW<sup>+</sup>16, HIEH22]. **In-**[MPdS12]. **in-degree** [LSV08]. **In-Memory** [SRV<sup>+</sup>19, TT20]. **In-place** [HTX17]. **In-Situ** [GMAS22]. **In-Storage** [JLK<sup>+</sup>20]. **in-vehicle** [BKLE18].  
**Inclusion** [CX20, CGPS13b, CGPS13a, Hov12]. **Inclusive** [MIH17].  
**Incomplete** [NCKL14, Ritxx]. **Inconsistencies** [FKRV16]. **incorporate** [SKS96]. **Increased** [HFN05]. **Increasing** [HR00]. **Incremental** [FWW13c, HKR92, Mey85, ISHY88]. **Independent** [ABF94a, CR95b, KR94, GP92, VS11]. **InDesign** [Kah06, Kah07, Kah09].  
**Indeterminate** [DW17, SW09, LMS21]. **Index** [CGR02, CN02, Cox12, Gia93, HTK<sup>+</sup>21, Man86, Zve80, All82, CGR03, DGM19, HLS<sup>+</sup>11, KWL07, KWLL08, KC21, KST16, NC06, TPT13, ZCT14].  
**index-sensitive** [TPT13]. **Indexed** [TCP16, ZJP<sup>+</sup>18, EMT23, GMC02, GO12, KNT15, Sen00]. **Indexes** [CLS<sup>+</sup>10, KRR17, Nav21b, RNOM09, CHLS07, NM07]. **Indexing** [BGS23, Gib21, GL86, GV05, HGT24, KKSL01, KTY<sup>+</sup>18, LMRT14, LM01b, NBY99b, Nav21b, Nav21a, SWY75, SVM14, GV00, HAI02, SJ13].  
**Indianapolis** [DGBH93]. **indirect** [DSv94]. **Induction** [Zha96]. **Inductive** [ASJDW21, ASJDW18, CL09]. **industrial** [Moo12]. **industrial-strength** [Moo12]. **Inference** [BNSV10, BGNV10, VB23, JM93, Tej20, Van06].  
**Infinite** [KT06, KST12, SMDS94, APTS13, Sid99]. **Infix** [HWW06].  
**Infix-Free** [HWW06]. **Inflectional** [TB00]. **Influence** [FTJ95]. **Inform** [Gro91a]. **Information** [FKRV15, FKR16, FBY92, IEE01a, IEE01g, IEE01e, IEE01c, IEE01b, IEE01h, IEE01f, IEE01d, KT23, LZ96, MKF91, MSP<sup>+</sup>17, SD91a, SD91b, Sno01, XPZ<sup>+</sup>23, FKR13, Kit94, KLR<sup>+</sup>08, Lus94, SHS14, SKS96, FGR72].  
**Informative** [IEE01c, IEE01d]. **inheritance** [Mor02]. **Initial** [Man75].  
**initialization** [MME14]. **Injection** [AV23]. **Inner** [BF97]. **Input** [TJD<sup>+</sup>17, Sak21]. **input-driven** [Sak21]. **Inputs** [CGP<sup>+</sup>08]. **Inscription** [D<sup>+</sup>23]. **Inspection** [LLLL08, LLC17, PW12, VWR11, YP13, ARS16, BAC12, NYuR15, NNSP22, SSYW19]. **Inspired** [GWvG10, Pet92, San09].  
**Installations** [SK17]. **instance** [FK96]. **instant** [Abb77]. **instead** [AGH<sup>+</sup>17]. **instructions** [KKM<sup>+</sup>06, MR82]. **insufficient** [LG16]. **Integer** [Nav04a]. **integers** [Mat94]. **integral** [EF95, SY72]. **integrals** [Sid99].  
**Integrated** [BGG<sup>+</sup>94, FU82, WBA83]. **Integration**



[Har79, Fat15, PJMR14]. **Intelligence** [IEE94b, PJMR14, Rob92].  
**intelligent** [JLHB92]. **Interaction** [BNV<sup>+</sup>13, KP96a, KP96b, HR00].  
**Interactions** [BNV<sup>+</sup>13]. **Interactive**  
[Han02, MR05, BKM95, BH07, DKP11, MI07]. **interchanges** [Chr96].  
**Interconnect** [SRV<sup>+</sup>19]. **interconnection** [KRL87]. **Interest** [DT87].  
**interests** [SW93]. **Interface**  
[IEE01a, IEE01g, IEE01e, IEE01c, IEE01b, IEE01h, IEE01f, IEE01d].  
**Interfaces** [IEE01g, IEE01h, PW06]. **Interferences** [FTJ95]. **Interleaving**  
[CGS17, CGPS13a, Gel10]. **Internal** [ACR20]. **International**  
[ACM94b, ABB93, AGS93e, AAC<sup>+</sup>01, AOV<sup>+</sup>99, Bao93, B<sup>+</sup>02, Bro93, Bun94,  
DMVT13, FMA02, IEE95b, Kap92, KP15, Lev95, Ng79, NH11, SW94, Sto92,  
WN90, A<sup>+</sup>08, BGNP94, HF13, MG94]. **Interpolation** [HW12, Lut02].  
**interpretation** [HN11, JP11, NC92, SHCY93]. **interpretations** [MP09].  
**Interpreter** [HOS85b, Mae94, Eck89, HOS85a, Rob87]. **Interprocedural**  
[WHZ<sup>+</sup>17, ZWH<sup>+</sup>21, FWDL15]. **Intersection**  
[GN12, HL10, Pet02, CS09, CP10, Gel10]. **Interval** [Via02, Via04, WSS94].  
**intractable** [FLM<sup>+</sup>10]. **Intrinsic** [MFMA15, MFMA17]. **Introducing**  
[LV86b]. **Introduction**  
[Bir77b, CM86, CLR90, GS93a, HU79, HMU01, HMU07, PG90, SC88, HU92].  
**introductory** [LSO17]. **Intrusion** [BYHT18, CZCD09, Hig95, KKK11,  
LY17, TS05, ZL18, ACF05, GZ10a, KAT07, LHCK04, TBS06]. **Intrusions**  
[KNMH00]. **invalid** [SMS15]. **Invariant**  
[FU98, KMRY20, LT03, ZC89, Deo06, KMR21, MNU05]. **Inverse**  
[AAL97b, GIK97, GHW05]. **Inversion** [KS94, Gie90, GT90]. **inversions**  
[CCF13, GFG11]. **Inverted** [BBH<sup>+</sup>87, ZMSD93, KWL07]. **invisible**  
[EHS07]. **invited** [Rémi17]. **Invocation** [Kor83]. **Involutions** [GMMN12].  
**IO** [PSK08]. **Ireland** [ABB93]. **Irregular** [PCS99]. **ISBN** [Ano12]. **Island**  
[ACP05]. **Isomorphism** [BJM79, Gro91a, Gro91b, KSH<sup>+</sup>15, Mäk89]. **Israel**  
[AL01]. **ISSAC** [Lev95, WN90]. **ISSAC'93** [Bro93]. **ISSAC'94**. [ACM94b].  
**Issue** [Ano17, Cro92a, IEE01a, IEE01g, IEE01e, IEE01b, IEE01h, IEE01f,  
AGS93a, AGS93b, AGS93d, AGS93c]. **issues** [BG91a, IS90, San15]. **Istanbul**  
[SMD04]. **Italy** [AAC<sup>+</sup>01, Apo93a, FL08, GM11]. **Iterable** [LM02]. **iterated**  
[Jan85]. **itself** [JGMP22].

**J** [Tal81, KS08]. **J2EE** [BTTF02]. **Jackson** [San09]. **Jan** [Ano12]. **January**  
[ACM87, ACM92a, ACM93a, ACM94a, ACM95a, ACM97b, USE92]. **Japan**  
[AT02, IEE94a, WN90]. **Java**  
[Agu23, Ano96a, Ano96b, Cal00, CGM06, Dwe00, FR00, Hab04, HHW<sup>+</sup>99,  
LM02, MFRW09, Mor02, NAR08, NM10, Pit98, Sch14, SM04, Stu07, dH05].  
**Java-based** [Ano96b, Ano96a]. **java.util.regex** [Hab04]. **JavaScript**  
[KT14]. **Jeffrey** [Ano97a]. **Jeju** [ACP05]. **Jersey** [FC98]. **Jerusalem**  
[AL01]. **Jigsaw** [BK93g]. **JMatch** [LM02]. **John** [Sal01]. **join**  
[WDG<sup>+</sup>14, WLF14, ZCO09]. **joins** [BKS02, JLFL14]. **Jose** [ACM95b].  
**JPEG** [KS05, KS06]. **jQuery** [PIR17]. **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** [ACM92c, ACM92b, ACM95c, ACM98, ACM99a, ACM06, ACM07, AP10, Apo93a, AH97, ACP05, BYCC03, Bun94, CG94b, FL08, FMA02, GS00, GM11, HM96, HF13, Hwa85, CVP86, Kap92, KU09, LL08, Len11, Ng79, Sto92]. **JVM** [BFN<sup>+</sup>09].

**K-M-P** [RUG97]. **Karp** [CR91, GBY90a, GBY90b]. **Karp-Miller-Rosenberg** [CR91]. **Karp-Rabin** [GBY90a, GBY90b]. **Keeper** [Wei84]. **Kentucky** [ACM89]. **Kepler** [TLS16]. **kernel** [WKR09]. **Kernelization** [BCKM15]. **Key** [CG79a, CG79b, Gri79, RMK<sup>+</sup>14]. **Key-Exchange** [RMK<sup>+</sup>14]. **Keys** [FFTD15]. **Keyword** [And02, GN19, ADT15, CWZ10, OSSK16, QQC<sup>+</sup>13a, QQC<sup>+</sup>13b, WZ96]. **Kiev** [Bro93]. **kinematics** [PS93a]. **Kleene** [Lee82]. **Kleenex** [GHR<sup>+</sup>16]. **KMP** [Mor90]. **Knowledge** [LSWP19]. **known** [KCK93]. **Knuth** [Bar81, DS04, Hua98, Moy24, PV91, Ruc15, TA90, Ukk10]. **Komplexitätstheorie** [HU92]. **Kong** [B<sup>+</sup>02]. **Korea** [ACP05]. **Korean** [JLH18]. **Kumar** [Hig95].

**L** [Sal01]. **Label** [XPZ<sup>+</sup>23, VR18]. **Labeling** [FK16]. **Labels** [KMRY20, KMR21]. **Lafayette** [Hig95]. **Laguna** [HM96]. **lambda** [Dow91]. **lambda-calculi** [Dow91]. **Language** [AKW85, ADR15, Ano68, Car77, Fre06, Fre78, GS93a, GP93, GH09, Gud92, GR96, Hir96, KN17, LS99, Lut02, MGH97, NM10, Reg92, Sab76, SBF80, SBM<sup>+</sup>18, TBD22, Taf22, TB00, VVV04, vNG01, Arn93a, Arn93b, BK86, BFS00, CFM00, CM86, CGM06, CK08, CMW87, FL71, FPD08, Fri97b, HJW<sup>+</sup>92, Jør92, KH06, KN19, Mal93, MLC08, RT18, RW93, RTO15, SNB<sup>+</sup>19, SC88, Ste12, Str13, SNM07, YIAS89, Zia96, DMVT13, DWE89]. **Languages** [ACM92a, ACM93a, ACM94a, ACM95a, AAB<sup>+</sup>17, AGP18, BLLW12, CM58, CDPP23, EJ23, HWW06, HU79, HU92, HMU01, HMU07, Hud89, KT06, KP99c, KLH16, Kor83, KST12, Nag21, ND02, SA96, Sch12, Sch13, Wag74, ACM87, AGM05, AOMC07, BRL13, BdFED<sup>+</sup>20, BLSS03, BKW92a, BKW92b, BKW92c, BDM19, CS09, Coh90, Dit78, ETV21, FhDAF09, HWW07, HWJ03, HSJ04, HW09, Kes91, LRV13, McI04, MZZ10, MPW21, Mye95, PP85, Rus88, Sak21, Sch88b, SHvR<sup>+</sup>16, Smi91a, dLFM07, BGNP94]. **Large** [AAC<sup>+</sup>01, AOV<sup>+</sup>99, BH85, B<sup>+</sup>02, LP13, LHMH91, Ris16, VB98, WHZ<sup>+</sup>17, ZMSD93, ZWH<sup>+</sup>21, ABB93, BC13a, CD96, EASK14, HAI02, LYWL08, Owo93, QQC<sup>+</sup>13a, QQC<sup>+</sup>13b, RW10, YHV<sup>+</sup>15, ZD95, ZCÖ09, ZCÖZ12]. **Large-Scale** [LP13, WHZ<sup>+</sup>17, ZWH<sup>+</sup>21, LYWL08]. **Larger** [GZ94]. **LATA** [DMVT13, NH11]. **latch** [Fos89]. **Lattice** [Mun07]. **Law** [AW89]. **Layout** [JDXD13]. **laziness** [KSVJ15]. **Lazy** [KKP16a, KKP16b, Jay92, Jør92, AJ89].



**Lazy-ML** [AJ89]. **LDA** [YCJK08]. **Learned** [HTK<sup>+</sup>21]. **Learning** [BGNV10, Bra94, BC94, Bra95, KK08, Kin92, KK02, Org03, PDL98, RFD23, SPF08, SG12, ZCS<sup>+</sup>12, BDMT16, BC06, Ker04, PKK18, STKD20, THQ19, VVV04]. **learning-based** [PKK18]. **least** [Boo80, DK13]. **Left** [NWE97, Ned98, CWZ10, CA20, HR03, Tak96b]. **Left-to-Right** [NWE97, Ned98, Tak96b]. **legacy** [Joh94b]. **Leif** [SC88]. **Lempel** [BK93a, BFG09, FT95, FT98, KKP16a, KKP16b, NR99b, Nav01c, NT05]. **Length** [BL94, Bre94a, Chu95, LLC17, YJ84, ZGS<sup>+</sup>15, BFKL13, BGW12, BC95, CS22, HOK18a, HOK18b, KR97, ZZH10]. **Length-Bounded** [LLC17]. **Lengths** [CCH<sup>+</sup>23, KIH15]. **lenses** [BFP<sup>+</sup>08, FPP08]. **Less** [LMRT14]. **Let** [ABF96, MW92b]. **Lett.** [Gro91a]. **letter** [AGM05, Bar84b]. **Letters** [Ale94, BTTF02, HHW<sup>+</sup>99]. **Level** [JSC83, MFMA17, ASJDW18, Dit78, Ear74, HC87, KWL07, Moo12, dSOMY15, SW12, Wea94]. **levels** [Lar98]. **leverage** [LR14]. **Leveraging** [MGW14]. **Levithan** [Ano12]. **Lex** [LS79]. **Lexer** [SvS14]. **Lexical** [HKR92, LS79, Nip98, Yan95, ISHY88]. **Lexico** [KKSL01]. **Lexico-Syntactic** [KKSL01]. **Lexicographically** [Boo80, CDPP23]. **Lexicons** [ZMSD93, ZD95]. **Lexing** [Urb23, ADU16, ELF22]. **Libraries** [Ano10]. **Library** [AK09b, CL95, EU98, Ano01, Cox10b, PSK17]. **library-defined** [PSK17]. **Lie** [ABF96]. **life** [CM90, Ste12]. **light** [Agu23, SNM<sup>+</sup>13]. **lightweight** [BFNP10, DA18, SNM07, GWX<sup>+</sup>23]. **Like** [CFG12, GHLW15, Hol84, HK11, AMRV16, BTG83, Mis89a, Mis89b, MPW21, YH91]. **Lille** [KU09]. **Limitation** [Kül10]. **Limited** [HAR10]. **limits** [Sid00]. **Line** [FG98, GG97, Lut02, Man75, MM93, Prů17, Sno01, Tak86a, Tak86b, BEL17, Blu08, CLP95, CT96, FG95a, Fre06, Gal75, Joh95, KNT11, NR02, NEL17, Rot91, Shi96, TIT83, YC22]. **Linear** [BJM79, Brz65, Bur11, CFP19, Cha94, Cha02b, CGS17, CH03, Co072, CR95b, CGPR95, GS81a, LK90, LO94, Man75, Pat71, PRU11, RPE81, SSSS10, CGPS13b, EH88, ETV88, GFG11, GMS12, HKN14, IKX15, KKR<sup>+</sup>13, LK88, Rep98, SGYM00]. **linear-space** [IKX15]. **Linear-Time** [CR95b, Man75, GS81a, HKN14]. **linearised** [TJMC20]. **linearity** [GO80]. **Linguistic** [Haz01]. **Linguistically** [GWvG10]. **Link** [LTL04, KCPC13]. **linkage** [VRC24]. **linked** [BAP06]. **Linter** [UIM22]. **Linux** [Blu08, Mah07, Qui00, dBB08]. **liquid** [VLP17]. **LISP** [ACM92c, JLHB92, Kod79, MS20, Mu 95, MuT95, Mun95]. **list** [dSOMY15]. **list-of-functors** [dSOMY15]. **listless** [Jay92]. **Lists** [Gil85, BAP06]. **Literary** [HSTS01]. **Literate** [Ham88, Pep91, VHC88]. **Lithographic** [DMWW77]. **lithography** [SS93b]. **Live** [YGG<sup>+</sup>23]. **lives** [Joh01]. **Ljubjana** [FGR72]. **Load** [MM02, MM03]. **Local** [ABH<sup>+</sup>14, CM94, DJ96, GHK14, MU02, ZCS<sup>+</sup>12, GS81a, MPW21]. **Locality** [TLC15]. **Locality-Centric** [TLC15]. **locally** [Mei08]. **locating** [Mar89]. **Location** [LYT<sup>+</sup>23]. **Locations** [ST95, GS81a]. **Log** [DJ96]. **logarithmic** [Sid95, Sid02]. **LOGCFL** [Pet02]. **Logic** [Bac94, GHK<sup>+</sup>91, Mae94, BdFED<sup>+</sup>20, CDL08, Coh90, HR01, Kun95, Smi91a, TPT13, YIAS89, Tal81]. **Logical** [CEW58, Wei84, PP85]. **logics** [LH03, Pel87, tC09]. **London**



[MZ07]. **Long** [CLP98, KYG19, Kha16, ML96a]. **Longest** [ACR20, BK93a, Bur11, F<sup>+</sup>23, FGKU15, HIRS17, JN24, KR92, KRS19b, KRS23, RT17, Rou21, BBHK14, Gra15, NHN<sup>+</sup>20, TTO<sup>+</sup>22, HTK<sup>+</sup>21, KRS19a]. **Longest-match** [BK93a]. **LongestMatch** [Huc21]. **Look** [McC01, Yan95, GPN96]. **Look-Ahead** [Yan95]. **lookahead** [BAC12]. **Lookaround** [MC24]. **lookup** [KW19]. **Loops** [BF97, FTJ95, KK95, BK86, RP95]. **Lossless** [How96, Cha93b]. **Lossy** [LS94, RT17, How96]. **Louis** [IEE90]. **Louisiana** [ACM91, ACM97b]. **Louisville** [ACM89]. **Love** [GP18]. **low** [LH13a]. **Lower** [BG92, CHPZ95, GG91, GJS20, GK86, AGW13, BCKM15, BG91b, CJPS13, Lif03, LP08, SASU13, SV87]. **lower-variance** [AGW13]. **LR** [LK06]. **LRPD** [RP95]. **Lyndon** [Fra20, SMDS94]. **LZgrep** [NT05]. **LZSS** [LD10]. **LZW** [GR99, Gaw12, Gaw13, KTS<sup>+</sup>98, KTSA99, TM04, TM05b, TM05a]. **LZW-Compressed** [Gaw12, GR99].

## M [RUG97, Ram94]. **MACHINE**

[BY91, CG87, Cox09, RFD23, AG84, BY92, Nak14, Ram94, WHZ<sup>+</sup>17]. **Machinery** [DT87]. **Machines** [AYS84, Bow87, BP63, JA17, JXA20, Moo64, OF61, Pux97, YD95, Aoe89, GOMSJVGP08, KAT07, MMS14, Yod91]. **macro** [Sas79]. **Macsyma** [JM85]. **Madison** [FMA02]. **Main** [BK75]. **Maintaining** [AS91, GO12]. **Maintenance** [CS18, MG94, KPA10, PA10]. **make** [JT94, Mei15]. **makematch** [Kas08a, Kas08b, Kas08c]. **Mäkinen** [Gro91a]. **Making** [ABBH<sup>+</sup>16, ATdM07, NE93]. **Malay** [BSY00]. **male** [KT90]. **Malicious** [HL10, HT14]. **Manacher** [Akl78]. **Management** [BK75, DT87, FMA02, SW94, Sto92, HF13, WXZY12]. **Managing** [SBM<sup>+</sup>18]. **manga** [QPWH08]. **Manipulate** [Ghi62]. **Manipulating** [VMML15]. **Manipulation** [Car77, Hoa77, Ng79, Wea94, GHS12, GS06, Mal93, MR05, RH81, SNM<sup>+</sup>13]. **Manual** [AKW85, Mu 95, MuT95, Mun95, Ski98, HA90, TSM88]. **Manuscripts** [AS91]. **Many** [JA17, JXA20, TLC15, Wal88, MAC14]. **Many-Core** [TLC15, MAC14]. **Many-Sorted** [Wal88]. **Many/Multi** [JA17, JXA20]. **Many/Multi-core** [JA17, JXA20]. **map** [KD15, SASU13, ZBST14]. **map-reduce** [SASU13]. **Mapper** [GMAS22]. **Mapping** [BAM<sup>+</sup>24, CFM17, KYG19]. **maps** [BCWG09]. **March** [ACM83, IEE94b, SC93, SC95, SC96, SC98, SC99, SC01, SC03, SC04, SM09, SM10, SM11]. **Marina** [ACM69]. **Markov** [KCPC13, KR14, LBK08]. **Marseille** [Ng79]. **Maryland** [ACM90b]. **Mass** [BM08, LZ18]. **masses** [Vol12]. **Massive** [BYNTK21, OR12, YDDB15, ZYQ<sup>+</sup>15]. **Massively** [CG87]. **Master** [Tay97]. **Mastering** [Fri97a, Fri02, Fri06a, LR14, Rom14, Uma97, Ano97a, Hum97a, Hum97b]. **Match** [GHW05, KR92, LD10, Mor83, Pet92, Ses96, VB98, Zve80, Bak78, BK93a, BBHK14, DWE89, GJS20, JGMP22, KSVJ15, KCK93, Mei15, ZCÖ09, ZCÖZ12, HC87]. **Match-Bounds** [GHW05]. **Matcher** [HH83, Sab76, Coe86, Ker07]. **Matches** [Dav73, KF91, Mut97, MOG98, PRU11, RVV23, GHST17, Mha05, Ukk92, Yam19, ZD95]. **Matching**



[AOK02, Abr87, ABM08, AC75, AGT89, Aku94, AR00, ACR01, ABF94a, ABF96, AAL97b, ALL97, ALLL98a, ALL00, AAL<sup>+</sup>00, ALR08, AP10, Ano92b, Ano96a, Ano96b, Ano17, AYS84, iA94, AYS<sup>+</sup>24, AT02, ADLM96, AW89, Ash85, AJS92, ACD01, ASA17, BST<sup>+</sup>03, BYP92, BYCMW94, BYN96, BY96a, BYN97, BYN98, BYN99, Bak96, BEM<sup>+</sup>12, BCP02, BLP18, Bee81, Bee13, BEL17, BH02, BH85, BKLP97, BKL<sup>+</sup>02, BGP<sup>+</sup>22, BL94, BM00, BBL93, BYNTK21, Bow87, BG92, Bre93, Bre94a, BCT94, BG95, BCT98, BGG12, BG14, BTC06, BL16, BK93g, Bun95, BZ98, BGJ01, BCFL12, BCC<sup>+</sup>13, CCFG12, CF06, CFP19, CFM17, CDM11, CK02a, CLS<sup>+</sup>10, CL92, CM94, CL94, CCH09, CL97, CLP98, Cha02b, CN02, CTF<sup>+</sup>98, CZCD09, CHL14, CJBW16, CWL<sup>+</sup>21, CK92, CDEK95, CG94a, CLP95, CM08, CL95]. **Matching** [Chu95, CW84, CHZ06, CJPS12, Cob94, Col94a, CHPZ95, CH97a, CH02, CH03, CHLT14, Col94b, CG79a, CG79b, Cox07, Cox09, Cox10a, Cox12, CP91, Cro92a, CR92, CCG<sup>+</sup>94, CR95b, CGPR95, CGG<sup>+</sup>97, CGH<sup>+</sup>98, CIK98, CIM<sup>+</sup>02, CIL<sup>+</sup>03, D'A98, DB86, DLG12, D<sup>+</sup>23, DN77, DCM15, DGM94, Dwe00, EIV04, ETV88, Eke95, EMC96, EF13, EMTG23, EZYA23, FT98, FL12a, FL12b, FMP20, FMMS20, FG98, FL08, FPT22, FR00, For02, FU98, Fre02, FNU02, FT04, Fre06, FC04, Fu95, Fu96, Fu97, GHLW15, Gal76b, Gal79, GS80, Gal81, GP90, GG91, GG92, Gal95, GPP04, GC01, GPR95a, GIK97, GP01, GP03, GIMV03, Gaw12, Gaw13, GP93, GM02, Gia93, GG95, GG97, GM11, Gib21, GS22, Gil85, GKP19, GZ94, GWX<sup>+</sup>23, Gon02, GK86, Gri79, Gri83]. **Matching** [GL01, Gro92, GL86, GV05, GMMN12, GH82, HD80, Han13a, Har02, Har97, HAR10, HL10, HT14, Haz01, Hea71, HEWK03, Hei01, HL97, HUN<sup>+</sup>19, HH93a, Hig95, HT17, HO82, HSTS01, HGT24, How97, Hui92, HW12, HN02, HN05, IS94, IMP01, IMR08, IST05, IS86, IMM<sup>+</sup>22, IK83, JZAA19, JLK<sup>+</sup>20, Jez15, JL96, JGZL12, JN24, JSC83, JTu96, KPR97, KPR00, KU99, KS12a, KR81a, KR81b, KR87, KRS95, KRS97, KO83, KP93, Kes79, Kha16, KTSA99, KMT<sup>+</sup>01, Kid09, KST94, KS99, KKSL01, KKK11, KS06, KS11b, KS12b, KM92, KM95a, KM95b, KMP77, KLH16, KRR17, Kor83, KMM15, KB18, KK02, KR97, KU09, KNS12, K  l10, K VX12, KNMH00, KC99, Lab12a, Lab12b, LSW08, LV94, Lav91, LP13, Le 91, LM01a, LKM23, Lec95, Lec98, LKL02, Lee09, LY17, LT03, Les95]. **Matching** [Les94, LV06, LY86, LYT<sup>+</sup>23, LTL04, LLLL08, LA12, LLCC13, LJH<sup>+</sup>17, LLC17, LLLC17, LP11, Liu86, Liu88, LM02, LT16, LN19, LGZ<sup>+</sup>14, LCL06, LLW<sup>+</sup>15, LS94, Lut02, MZ07, Maa06, MS98, MBP22, MKF91, MU02, MC24, MW92a, MW92b, MGW14, MR11, MNP<sup>+</sup>23, MSV24, MHT09, MUHT96, McI85b, MPN<sup>+</sup>14, Mel95, Mey85, MM02, MIH17, Moh97, MS01, Mon17, MNR<sup>+</sup>23, ML96a, ML96b, Mu 95, MuT95, Mun07, MR92, Mut97, Mut00, Mye92, Mye98, Nao91, NR98, Nav98, NBY99a, NR99b, NBY99b, NBY01, NR03, Nav04b, NWE97, Ned98, NdMM02b, ND02, NRS18, NCKL14, NR15, NEL17, OR12, OS11, OP16, Ott94, OM88, PDL98, PAMP12, PS10, PLL08, PK95, Par96, PV91, PPA10, PW95, Phi94, Pol13, PP09, Pou93, PK85, Pr  17, PS93b, RR90, RR92, Rao95, RM88, RTT02b]. **Matching**



[RKM21, RS98, RHR<sup>+</sup>21, Ric79, Ris16, RKH02, RPE81, RMK<sup>+</sup>14, RT17, RSG<sup>+</sup>19, RFD23, RNOM09, Sad96, SV94, SMD04, STK10, SCFC94, SN92, SP16, Sca11, Sch95, SRR92, SRR95, SD95, Sha93, STSA99, SKF<sup>+</sup>00, Shi00, Shi04, Shi92, SSSS10, Sim83, Sim94, SF01, SdM01, Sli78, Sli83, SW09, Som82, Spi99b, Sto96, ST95, ST96b, ST96c, ST04, TBD22, Taf22, Tak86a, Tak86b, Tak94, TT22, TMK<sup>+</sup>02, TS05, TZW94, TWZ23, TU93, TP97, TMV<sup>+</sup>01, TJGY22, TK07, TLC15, TL12a, TL12b, TVCM12, UW93, Ukk10, UFA<sup>+</sup>24, VSM87, VB12, VWR11, Via02, VG01, VRD01, Vis91, Vis99, VS01, WAH23, WPKL13, WSW16, WMGS19, WZL<sup>+</sup>23, Wat96, WKA94, WD99, WBA83, Wri94, WM92b, WMM95, WSVS22, Xi03, XZL<sup>+</sup>19, YP12, YP13, YQW<sup>+</sup>16, YK11, YJ84, YDW18, YGG<sup>+</sup>23, Yun12]. **Matching**  
 [ZZ12, ZS17, ZS13, ZL18, Zha17, ZLN11, ZCH23, ZT89, Zue96, de 82, van14a, van14b, AMB<sup>+</sup>02, ADR03, ADR06, AK08, AK09a, Ak178, Aku95, ASM17, Alb89, ACF05, ASG99, ALV92, AF92, AFM94, ABF94b, AAL<sup>+</sup>97a, ALLL98b, AL01, ALP04, ABC<sup>+</sup>04, AKT06, ALLS07, AAK<sup>+</sup>09, AAB<sup>+</sup>09, AEK<sup>+</sup>11, ABH<sup>+</sup>14, Ano97b, Ano01, Aoe89, AG84, Apo92, Apo93a, AH97, AG97, ACP05, ADLM01, AGS96, AD11, AGW13, AG06, BFKL13, BKLE18, BYR93a, BYR93b, BYP96, BYCC03, BSY00, Bak78, Bak93, BDB90, BCD98, BEM<sup>+</sup>13, BSTU08, Bar22, BGFK15a, BGFK15b, BR09, BA15, BA16, BKBB<sup>+</sup>14, BYB<sup>+</sup>24, BBvdM21, BCD14, BPPR20, BLLP90, BLPL92, BFC08, BFG09, BGVW12, BG22, Bir77a, BGJ89, BÖ13, BGWXP22, BBL98, BYK22, Bra90, Bra95, BBK12, BBHK14, BG90, BG91b, BCT93, Bre95, Bre96].

### **matching**

[BGM13, BKS02, BDM19, BFK<sup>+</sup>03, BC93, BEL04, CADA18, CGK08, CPT92, CCF13, CS98, CPW88, CF88, CK04, CGM10, CL90, Cha93b, Cha93a, CLZ<sup>+</sup>15, CKP<sup>+</sup>21, Cha87, Cha02c, CRV06, CJ93, CR95a, CLS95, CDDM05, CW13, CJBW13, CW18a, CW18b, CN21, CFCK22, CFKT17, CNPS15, CNS18, CH04, CS11a, CR87, CWZ10, CEPR10, CJPS13, CDP14, CDP16a, CA18, CD18, CA20, CP10, Col90, CH92, CCG<sup>+</sup>93, CH97b, CGG90, Col91, CT96, CD89, Co089, CM07, Cro92b, CGR93, CG94b, CR94, CL96, CGR99, CCG<sup>+</sup>99, CKC07, Dai09, DR06, DS04, DA18, DGG<sup>+</sup>19, DGM19, DOS93, Deo06, Der95, Dij76, Dijxx, Dit78, Dow91, Dow93, DC94, DGM90, DNR06, ĎHPT10, EMT23, FLM<sup>+</sup>10, FWW13a, FWW13b, FWW13c, FLC<sup>+</sup>19, FC98, FCLST07, FT95, FL13, FS22, Fat15, FHV18, Fen01a, Fen01b]. **matching**  
 [FG95a, FMdB99, FDG<sup>+</sup>11, Fil21, FBMA05, Fre03, FN04, FM06, Fri97b, Gaá04, Gal75, Gal76a, GS81a, GS81b, GS83, Gal84, GG86, GG87, Gal92, GP92, GU95, GPR95b, GR99, GU16, GGL94, GS00, GGF13, GG13, GMC02, GW92, GBY90a, GBY90b, GPN96, GF08, GFG11, GGN06, GL89, GV00, GM17, GZ10a, GS06, HIEH22, HWW07, HY92, HLS07, HFS05, HC87, HR01, HR03, HH93b, HH93c, HM96, HOK18a, HOK18b, HM00, HLS<sup>+</sup>11, HBRV10, HP01, HP03, HK77, How96, HLN09, HHLS06, HFN05, Hyy08, IIT13a, IHEH23, IS96, Ier09, Ind97, Ind98, IS90, IIK08, IM13, II86, ISHY88, Jan23, JHU<sup>+</sup>24, JM93, JP11, JL93, Joh95, Joh94a, JU91, KTP10, KSVJ15, KB22, Kas08a, Kas08b, Kas08c, KN00, Kes91, KTS<sup>+</sup>98, KMS<sup>+</sup>03, KST92, Kim99, KWL07, KEF<sup>+</sup>14].



**matching** [KC21, KKNS23, KKH24, KNT11, KS01, KS05, KMP94, KS96, Kos89, Kos94, KM13, Kri09, KKR<sup>+</sup>13, KST16, KGP<sup>+</sup>05, KPA10, KT90, LMM17, LV86a, LV86b, LVN87, LV88, LV89, Lar99, Lec07, LLC03, LH13a, LH03, LG16, LS10, LLL<sup>+</sup>24, LS09, LP08, Liu81, LHCK04, LBK08, LO94, LT97, LLL13, MCF<sup>+</sup>11, MCF<sup>+</sup>14, MK90, MNU05, Man76, MBY91, MMZ10, Mar07, ME97, MAI<sup>+</sup>16, MP05, McI85a, MM03, MM07, Mis03, MHM<sup>+</sup>01, MR09a, MBH20, MA12, MPW21, Mun95, Mus03, Mus05, MM89, Mye95, Mye99, NYuR15, Nak14, NNSP22, Nar91, NBY99c, NR00, Nav00, NKT<sup>+</sup>01, Nav01a, Nav01b, NR02, NF04, NT05, NC06, Neb06, NWE99, NdMM02a, NC92, NR17, NK07, Nil90, OK94, dSOMY15, OR11, Oph89, OW03, PS89, PLL10, PPTT15, Par98, PS90, PLT14, PC99, PP94, Per94]. **matching** [Pet01, PMS11, PPZ08, PDC94, PA10, QZC17, Quo92, RM06, RTT02a, RUG97, RTO15, Rus88, RLP20, Sad93, SY23, SVS97, SRK20, STK06, Sal12, SBB19, Sas79, SW90, Sch81, Sch91a, Sch91b, Sch88b, SZ05, Sen00, SS94, SGYM00, ST96a, SN94, SSSL21, Shi97, Sil77, SR16, Smi91a, SDS14, SGCW14, SHCY93, Spe85a, Spe85b, Spi99a, Sri93, SA77, Sto02, SALP20, SWW<sup>+</sup>12, SLZ<sup>+</sup>20, SMW<sup>+</sup>23, SN24, SV87, SNM07, Tak96b, Tak93, TBS06, TZYH14, TJD<sup>+</sup>17, THQ19, TM04, TM05b, TM05a, THG17, Tej20, Thi93, TIT83, IIT13b, TLS16, TJMC20, TLLL07, TLLL09, TCC91, THL<sup>+</sup>20, Ukk92, Ukk93, VRC24, Val09, Van06, VLP17, VW11, Via04, Vin77a, Vin77b, Vis90, Vol12, Wad87, WZS95, WGMH13, WLF14, WC14, WL15b, WZ96, WW03, Wat03, Wea94, XMLC11, YKGS11, Yao79, YT03, YB13]. **matching** [ZMAB03, ZZH10, ZZH16, ZA17, ZdSO18, ZZJC20, ZYX<sup>+</sup>12, dB93, dRL95, BCKM15, HTK<sup>+</sup>21, JD89, Neu10]. **Matching-Based** [CZCD09]. **matchings** [Iba97, RW10]. **matchlib** [Ano01]. **MatchPy** [KB18]. **material** [RH81]. **Mathematica** [Har97, Mae94]. **Mathematical** [Zha96, Rev91, Win78]. **Mathematics** [HM87, AH14, WSS94]. **Matos** [Pet95]. **Matrices** [CIK98, Gia93, PRU11, Lee82]. **Matrix** [BGP<sup>+</sup>22, FTJ95, SJNS19, TZW94, Kar82]. **Matrix-Vector** [FTJ95]. **Max** [IMP01, WPKL13]. **Max-Shift** [IMP01]. **Maximal** [BJM79, Fra20, IF94, IS86, BGK<sup>+</sup>16, Che96, GHST17, II86, Ukk92, Rep98]. **Maximal-munch** [Rep98]. **Maximally** [BNV<sup>+</sup>13]. **Maximize** [LJZZ13]. **Maximum** [ADLM96, ASA17, OP16, ADLM01, LMMN07]. **May** [ACM69, ACM74, ACM76, ACM81, ACM84, ACM86, ACM90b, ACM91, ACM92d, ACM93b, ACM94c, ACM94d, ACM95b, ACM95c, ACM97a, ACM97c, ACM99a, ACM99b, ACM00, ACM08, Apo92, DT87, KLB12, NH11, SW94]. **Mean** [KP96a, KP96b, Alb89]. **Means** [Ray96, SS93a, OW03, WD99]. **Measurement** [Lee91]. **Measures** [Nav21a, EZ74, EZ76]. **Mechanical** [NEH90, Sha88a]. **Mechanically** [Gol90]. **mechanics** [NEH90]. **Mechanism** [JLH18]. **mechanized** [Chl08]. **media** [VD17]. **Medicine** [Sal01]. **meet** [KSVJ15]. **Meeting** [NEH90]. **Membership** [CGS17, GM02, KZ02, Loh10, Pet02, MW94]. **Memory** [GWX<sup>+</sup>23, KKK11, LP13, Lec98, SRV<sup>+</sup>19, TT20, TVCM12, FG99, JSH09, KFG15, LH13a, LMT16, Nak14, PLL10, YKGS11, YIAS89, ZYX<sup>+</sup>12, OWP16].



**MEMORY-Based** [OWP16]. **Memory-Efficient** [GWX<sup>+</sup>23, KKK11, LP13, PLL10, YKGS11]. **Memristive** [TT20].  
**Memristor** [BYHT18, dLBHC22]. **Memristor-Based** [BYHT18]. **Merging** [Kit94, LK06]. **Merlin** [SBM<sup>+</sup>18]. **MESA** [ZBST14]. **Mesh** [BM00, CNS18, DKP11]. **Meshes** [CG94a]. **MeshFlow** [DKP11]. **Message** [GM02, GKW<sup>+</sup>10]. **Meta** [Moo12, Kes79]. **Meta-level** [Moo12].  
**META/REDUCE** [Kes79]. **Metadata** [RHR<sup>+</sup>21]. **Metamathematics** [Pux97]. **Metamorphosis** [KV15]. **metaprogramming** [JGMP22].  
**metasystem** [GT90]. **Method** [AYS84, CLP95, Hua94, LPT12, MM93, NBY99b, RJK79, SV94, SD95, Shi96, WZJH12, FMdB99, GPR95b, Ker04, LLL13, MP09, SSW19, TIAY90].  
**Methods** [BW91, Fal85, GIMV03, SBHM94, BSY00, KNT15, Per94, San09, SHCY93, TTHP05]. **Metric** [BCP02, CN02, ZCS<sup>+</sup>12, EH88, Jon13, Mag81, NC06]. **Metrics** [LP11].  
**Mexico** [ACM92a, BYCC03]. **MFC** [AS04]. **Miami** [CVP86, IEE97].  
**Michoacan** [BYCC03]. **Microcomputers** [ZA87, ZGE85]. **microprocessor** [BY92, BY96b, BY91]. **Middle** [Sal01]. **Middleboxes** [YDW18]. **Miller** [CR91]. **Milwaukee** [ACM81, IEE95a]. **MIN** [WPKL13, YD95].  
**MIN-MAX** [WPKL13]. **Minimal** [BNV<sup>+</sup>13, IF94, Mah07, Ned98, YD95, BGK<sup>+</sup>16, BH96, HRN<sup>+</sup>15, KS11a].  
**Minimization** [CMNP18, Moh94, ND02, TZW94, AYCLS02, Kra08].  
**Minimizing** [GS07]. **Minimum** [ASA17, FR17, PW93, Rot91]. **Mining** [BGM19, BNV<sup>+</sup>13, GRS99, MSS<sup>+</sup>19, NCJF18, ZKCY07, AVN22, EASK14, KD15, MR13]. **MINIX** [TSM88]. **Minneapolis** [ACM94c, SW94].  
**Minnesota** [SW94]. **MinneSPEC** [KL02]. **MIPS** [ZZJC20]. **Miranda** [Tur86]. **mirror** [LG16]. **Mismatch** [ATX21, AEP06, JN24, Neb06, Sel84].  
**Mismatches** [AW89, AJS92, BST<sup>+</sup>03, HT17, KRS19b, KRS23, NR15, ALP04, CKP<sup>+</sup>21, CW18a, CW18b, Der95, FGKU15, GG86, GG87, GU16, GGF13, Gra15, GL89, LV86a, NR17, SZ05, KRS19a]. **Missing** [DCM15].  
**Mission** [Lut02]. **Mission-Critical** [Lut02]. **Missouri** [IEE90]. **Misuse** [Hig95]. **Mixed** [ASA17]. **mixture** [Oph89]. **MJRITY** [AR13]. **ML** [AJ89, Ses96, SvS14]. **MLIR** [EZYA23]. **MMDBS** [DWE89]. **MMIX** [Ruc15]. **MN** [ACM94c]. **MNCaRT** [AWD<sup>+</sup>18]. **mobile** [CFM00]. **Möbius** [Bjö93]. **Modal** [Yod91, tC09]. **Model** [CMR18, D<sup>+</sup>23, FYJ<sup>+</sup>17, GN19, GWvG10, Hig95, LLS12, MGH93, MGH97, PP09, SWY75, SCFC94, AB89, Liu81, NRO12, Tak96a, TG96].  
**Model-based** [GN19]. **Modeling** [CLST<sup>+</sup>13, Haz01, SBHM94, KC15].  
**Models** [BZ98, CDL95, CDL99, A<sup>+</sup>08, Co089, CKC07, KCPC13, LT97, Nak14].  
**Modern** [AAB<sup>+</sup>17]. **modification** [Sch81, TJMC20]. **modified** [KJS17, Leu97]. **Modifier** [WWW<sup>+</sup>16]. **Modular** [LP13, dSOMY15, PP06, MRA<sup>+</sup>17, MFRW09]. **Modulated** [AEMS14].  
**Module** [ZS17]. **Moebius** [JGMP22]. **monadic** [TPT13]. **monads** [PMS11].  
**monitors** [ATdM07]. **monoidal** [VLP17]. **Monoids** [DM11, HY92].



**Montreal** [ACM94d, GS00, Lev95]. **Moore** [AG86, BYR92, Rai92, Smi94, Tal81, TJMC20, AR13, BYCG94, BYBDS09, BPMA02, Ber00, BKM95, CFG12, Col90, Col94a, DR06, EMC96, Gal79, Gol90, GO80, HA90, Kau92, KP96a, KP96b, KBN09, Kun95, Lec92, Men89, NT05, Pie95, Rus85, Rus92, Ryt80, STK10, Sch88a, Sto02, Tak96b, TU93, WW03, WW93, Woo86]. **Moore-Like** [CFG12]. **Moore-style** [WW03]. **Morelia** [BYCC03]. **MorphJ** [HS08]. **morphology** [Mus03]. **morphology-driven** [Mus03]. **Morris** [Bar81, DS04, Hua98, Moy24, TA90, Ukk10, PV91]. **most** [FL13, GFG11, HY90, LR14, YH91]. **Motif** [BNV<sup>+</sup>13, Tan14, YHV<sup>+</sup>15]. **Motion** [CZW15, KC99]. **motivate** [Fla88]. **moves** [CM07]. **movie** [WW93]. **moyenne** [Alb89]. **MPI** [MM02, MM03, PSK08]. **MPI-IO** [PSK08]. **MR** [Gro91a]. **MRC SI** [WL15a]. **MS** [VWR11]. **MS-DFA** [VWR11]. **MSO** [TN13, TN15]. **MT** [ZV97]. **Mukherjee** [Neu10]. **Multi** [AWD<sup>+</sup>18, CJ93, FMdB99, GG95, GG97, Har02, HUN<sup>+</sup>19, LY17, LT03, LT90a, NBY99a, OR12, OSSK16, PLL08, PW12, SOR16, TMK<sup>+</sup>02, WSW16, Alb89, ARS16, CPT92, CCG<sup>+</sup>99, ETV88, JKNS00, KTP10, KM84, KPA10, OW03, SDA17, XMLC11, YT03]. **Multi-Architecture** [AWD<sup>+</sup>18]. **Multi-attribute** [Har02]. **Multi-byte** [TMK<sup>+</sup>02]. **Multi-combinators** [LT90a]. **Multi-Core** [LY17, JA17, JXA20]. **Multi-Dimensional** [GG95, GG97, NBY99a, JKNS00, XMLC11]. **Multi-field** [WSW16]. **Multi-keyword** [OSSK16]. **multi-linear** [ETV88]. **Multi-matching** [CJ93]. **Multi-method** [FMdB99]. **multi-pattern** [Alb89, CPT92, CCG<sup>+</sup>99, KTP10]. **multi-patterns** [KPA10]. **multi-resolution** [OW03]. **Multi-Stride** [PW12]. **multi-striding** [ARS16]. **Multi-String** [PLL08, YT03]. **multi-tenant** [SDA17]. **multi-term** [KM84]. **multi-text** [YT03]. **Multi-Threading** [OR12]. **Multi-Track** [HUN<sup>+</sup>19, LT03]. **Multi-User** [SOR16]. **Multi-view** [CJ93]. **Multibox** [Dya94]. **Multicast** [Sch95]. **multicharacter** [CW13]. **multicomputer** [TTO<sup>+</sup>22]. **Multicore** [VSP08, YP13, ZLN11]. **Multidimensional** [SN92]. **Multidisciplinary** [Kni89]. **Multidisk** [KCK93]. **multigraphs** [FS13]. **multihead** [CR87, Pet94]. **multilevel** [KCPC13]. **multilingual** [ZV97]. **Multimodal** [BWG12]. **Multipattern** [STK06, Yun12, ZS13, BBK12]. **Multiple** [HR02, BYN97, BLP94, CF06, CJPS12, FL12b, Gaw12, IS94, IS96, KTS<sup>+</sup>98, KMT<sup>+</sup>01, KMM15, LLC17, LT90b, LBK08, MM96, Mut00, OR12, PW95, SVS97, Shi96, SALP20, TM05b, VWR11, CK02b, Dai09, Fen01a, FN04, HFN05, KM13, KGP<sup>+</sup>05, KIH15, Maa06, Mha05, NF04, PC02, PW06, SSSL21, WL15a, WZ96, ZC89]. **Multiple-pattern** [TM05b]. **Multiple-Stride** [VWR11]. **multiplexing** [Quo92]. **Multiplication** [BGP<sup>+</sup>22]. **Multiply** [FTJ95]. **Multiprocessing** [WBA83]. **multiprocessor** [Vin77a, Vin77b]. **Multistring** [WZL<sup>+</sup>23]. **Multiterm** [Bur84, Bur82]. **Multithreaded** [EGP14]. **Multivariate** [CvW18, YBTB23]. **Multiview** [ZCS<sup>+</sup>12]. **munch** [Rep98]. **Munich** [ACM87]. **Music** [Cop91]. **Musical** [Cop91]. **Mutations** [ZJP<sup>+</sup>18]. **Myhill** [WZU14].



**N** [Pux97]. **namedCapture** [Hoc19]. **Names** [VB12]. **Nancy** [Bun94].  
**nanolithography** [SS93b]. **narrowing** [AEH94]. **Nashville** [ACM90a].  
**Natural** [Fre06, GR96, vNG01]. **Natural-Language** [GR96]. **Navarro**  
 [Hyy08]. **Navigational** [LRSV18]. **near** [HFFA09]. **near-optimal** [HFFA09].  
**Nearest** [CEMW91, QQC<sup>+</sup>13a, QQC<sup>+</sup>13b]. **Nearest-neighbour**  
 [CEMW91]. **necessary** [KT90]. **Need** [Gon02]. **needed** [AEH94]. **Negative**  
 [YQW<sup>+</sup>16]. **neighborhood** [KS11a]. **neighbour** [CEMW91].  
**Neighbourhoods** [NRS18]. **Nerode** [WZU14]. **nerve** [Kle56]. **Nested**  
 [KKFI<sup>+</sup>24, Lar98, MZZ10]. **Nesting** [Jed87]. **net** [AB89, PP85]. **Nets**  
 [CEW58, Sim83, BG91a, GR92, Kle56]. **Network**  
 [BNV<sup>+</sup>13, CFM17, CFS<sup>+</sup>89, LY17, LN19, Rei03, SBM<sup>+</sup>18, TJGY22, VKPI17,  
 ZL18, BKLE18, CMS08, GZ10a, LMMN07, LHCK04, SALP20, SN24, Tak96a,  
 TLL07, WXZY12]. **network-based** [BKLE18]. **Networks**  
 [CLP95, DCM15, JGZL12, KTY<sup>+</sup>18, MSP<sup>+</sup>17, Ray96, SF01, TD18, CEMW91,  
 Kin89, KD15, LLL12, LYWL08, MMDdJ11, SD91a, SD91b, SDA17, VD17].  
**Neural** [AB89, CG87, CLP95, SF01, Kin89, PKK18]. **neuromata** [ŠW98].  
**neuropsychology** [AB89]. **Nevada** [ACM95c]. **next** [KKP92].  
**next-generation** [KKP92]. **NFA**  
 [ARS16, Cha01, CP97, GS07, HM98, Hyy08, Lif03, PD12, YKGS11, ZYX<sup>+</sup>12].  
**NFA-based** [ARS16]. **NFA-OBDDs** [YKGS11]. **NFA's**  
 [CHP92, GLRÁ11, Lau00, IY02a, IY02b]. **ngrep** [McC01]. **NIDS** [TK07].  
**NIDS/NIPS** [TK07]. **Nineteenth** [ACM92a, IEE95b]. **Ninth**  
 [ACM90a, ACM97c]. **NIPS** [TK07]. **nm** [SS93b]. **NMR** [SHCY93]. **No**  
 [CA20, Edw07, Gro91a]. **node** [SK17, SWW<sup>+</sup>12]. **noise** [ZHHW12]. **Noisy**  
 [Bra94, KO83]. **Nominal** [KST12]. **Non**  
 [Ben94, CDM11, Liu14, ABH<sup>+</sup>14, CCF13, HJW<sup>+</sup>92, SN94, TZh<sup>+</sup>13].  
**non-aligned** [SN94]. **Non-Central** [Liu14]. **non-exact** [TZh<sup>+</sup>13].  
**non-fixed** [ABH<sup>+</sup>14]. **Non-Overlapping** [Ben94, CCF13]. **Non-periodic**  
 [CDM11]. **non-strict** [HJW<sup>+</sup>92]. **Nonbacktracking** [MNR<sup>+</sup>23].  
**Nondeterministic** [ABMN20, Cha02a, CDL95, CDL99, DL03, HSW97,  
 HSW01, Nag21, BT21, Gef03, GHR<sup>+</sup>16, Ryt89]. **Nonlinear**  
 [MSP<sup>+</sup>17, RR92, Dan91, NA90]. **Nonuniform** [Lut02]. **Norm**  
 [TZW94, WC14]. **Normal** [BMMR19, JR15b]. **normality** [Jan23].  
**normalization** [KWLL08]. **North** [IEE89]. **notation**  
 [LLS12, Man06, Rev91]. **notations** [Vol12]. **Note**  
 [Ano17, BST<sup>+</sup>03, CR92, Gra15, Gro91b, Ryt89, Sil77, tC09]. **Notes**  
 [BYKZ<sup>+</sup>92, BLPL92]. **notion** [Cha02c]. **Novel** [LLCC13, RVV23, LS99].  
**November** [A<sup>+</sup>08, IEE88, IEE89, IEE93, IEE98, NEH90]. **Novice**  
 [JNS08, MLM<sup>+</sup>08, PP94]. **NP** [TCC91]. **NP-completeness** [TCC91]. **NR**  
 [Nav01b]. **NR-grep** [Nav01b]. **NUCA** [HFFA09]. **Nucleic** [CCL87].  
**nucleotide** [LVN87]. **Number** [BM00, GPR95a, GS81a, Kod79, LS09].  
**Numeric** [KAN<sup>+</sup>17]. **Nutshell** [Gt92, Rob99a, Rob99b]. **NY** [AP10, Kap92].  
**O** [PSK08, ZYQ<sup>+</sup>15, dBB08]. **OBDDs** [CH04, YKGS11]. **obfuscation**



[OSSK16]. **Object**  
[CJ93, GP93, LT90b, BY96b, Coo89, GPTV93, LLC03, MME14, TG96].  
**Object-Oriented** [GP93, LLC03]. **Objects**  
[BZ98, SP16, Alb89, BGWXP22, HNB<sup>+</sup>13, IM13, Mar89, MR05]. **Oblivious**  
[FV16, HLS<sup>+</sup>11]. **obliviously** [FGG<sup>+</sup>08]. **Observations** [Hun79, APTS13].  
**Obtaining** [HW07, DR06]. **OCaml** [Fri06b]. **Occurrence**  
[CIL<sup>+</sup>03, Cha02c, Mus05]. **occurrences** [FLSS93a, FLSS93b]. **OCR**  
[San95, TIAY90]. **October**  
[Bao93, IEE89, IEE90, IEE92, IEE95a, IEE97, IEE09]. **off** [MNS07]. **offer**  
[LS99]. **Offers** [Fri97b]. **Offline** [MT14]. **offloading** [KLL23]. **offs** [GHST17].  
**omega** [SMT<sup>+</sup>86]. **omega-extended** [SMT<sup>+</sup>86]. **Omni** [Wol86].  
**Omni-Font** [Wol86]. **omnidirectional** [KLL23]. **On-Line**  
[FG98, GG97, Lut02, Man75, MM93, Prů17, Tak86a, Tak86b, BEL17, CLP95,  
Fre06, Joh95, KNT11, NEL17, Shi96, CT96, FG95a, Gal75, NR02, TIT83].  
**One** [JKNS00, JL96, LY86, Sch91a, Sch91b, She59, WC14, Alb89, AGM05,  
Bak78, CX20, CR87, CCG<sup>+</sup>93, GGL94, JL93, LMNT16]. **One-dimensional**  
[JKNS00, WC14]. **one-letter** [AGM05]. **one-unambiguous** [CX20].  
**One-Way** [JL96, LY86, Sch91a, Sch91b, She59, CR87, GGL94, JL93].  
**Online** [FL12a, FMP20, LH13b, PS10, CJPS13, FL13, KM13, THQ19]. **only**  
[CD18, GS81a]. **Ontario** [Cha86]. **Ontology** [RFD23]. **Open**  
[AWD<sup>+</sup>18, Bol02, SDS14, AC93, ZdSO18]. **Open-Source** [AWD<sup>+</sup>18, Bol02].  
**Operating**  
[IEE01a, IEE01g, IEE01e, IEE01c, IEE01b, IEE01h, IEE01f, IEE01d].  
**Operational** [HH83]. **Operations** [DJ96, AGM05, Ear74, GW92, GH09].  
**operator** [HC87]. **Operators** [For02, Kea91a, Sym85, MMDdJ11]. **Optimal**  
[AOK02, AR00, ABF94b, BH96, CLZ<sup>+</sup>15, CG94a, CR92, CGH<sup>+</sup>98, FCLST07,  
FG95a, FG98, FK16, FNU02, Gal84, Gal95, Gaw13, GG97, Hig86, IY02a,  
IY02b, KU99, KR94, LMMN07, MS98, MP88, Mor83, Mut00, Nak14, NWE97,  
NdMM02b, RT17, SN92, BKBB<sup>+</sup>14, BG90, BKS02, CMO<sup>+</sup>08, CR94, FN04,  
GS81b, GS83, Gal92, GR99, GHK14, HFFA09, IKX15, IP96, KR89, KT90,  
MSRR00, MS95, Neb06, PPTT15, Ryt89, ZC99]. **Optimally** [CCG<sup>+</sup>93].  
**Optimising** [Chi17]. **Optimization**  
[GC01, HJ99, IMM<sup>+</sup>22, LT09, Sca11, Spi99b, Web95, All89, CK02b, KLL23,  
KWLL08, KGP<sup>+</sup>05, SJ13, Spi99a, VW11]. **optimizations** [PSK17].  
**Optimized** [AK09b, ELF22]. **Optimizing**  
[CJBW13, CJBW16, CMNP17, Kha16, LM01a, KS08]. **Optimum** [LD10].  
**Oracle** [FPD08, GL03]. **oracled** [PPPdG20]. **oracles** [KW05]. **Order**  
[GU16, HW12, JR15b, KEF<sup>+</sup>14, KAN<sup>+</sup>17, KKNS23, SdM01, Wag74, BLSS03,  
Bjö93, CFKT17, Chl08, CNPS15, CT96, DGM19, Dow91, Gie90, JHU<sup>+</sup>24,  
Kau92, Kes91, NRO12, OR11, OND98, Pie08, TPT13, Zei08]. **Order-**  
[Wag74]. **Order-preserving**  
[GU16, KEF<sup>+</sup>14, KKNS23, CFKT17, CNPS15, DGM19, JHU<sup>+</sup>24].  
**order-sorted** [Gie90, Kes91]. **Ordered**  
[ST04, Cro92b, Gro91a, Gro91b, Mäk89]. **Ordering** [CDPP23]. **ordinary**



[Rev91]. **Oregon** [ACM94a, ACM00, BGNP94]. **O'Reilly** [Ano97a, Ano12]. **Organization** [IK83]. **Organizing** [CG87]. **Orientation** [TCKK90]. **Oriented** [GP93, KS94, Rei77, GPTV93, LLC03, Mus05, TG96]. **Orlando** [IEE88]. **Orleans** [ACM91, ACM97b]. **Ornaments** [Rém17]. **Oscillator** [FYJ<sup>+</sup>17]. **Oscillator-Based** [FYJ<sup>+</sup>17]. **OSN** [ZGY<sup>+</sup>16]. **other** [Ano97a, Fri97a, Hoc19]. **our** [FvGGM90]. **outbreak** [FNP09]. **Outerplanar** [BJM79]. **Output** [PM78]. **Outsourced** [FHV18, MBP22, YDW18]. **Overcoming** [Kül10]. **overlap** [KD15, PSK08]. **Overlapping** [Ben94, BZ98, CCF13]. **Overlaps** [AGM19]. **Overlay** [LT16]. **overview** [PVA<sup>+</sup>92, Tur86]. **Own** [Tay97, ZGY<sup>+</sup>16]. **Oxford** [Ano97b].

**P** [RUG97]. **P2P** [LLL12, LYWL08]. **P4Rex** [LLL<sup>+</sup>24]. **Pacific** [IEE94a]. **Package** [Liu14, van14a, van14b, Kas08a, Kas08b, Kas08c, Nic03]. **packages** [Hoc19]. **Packed** [Zha17, BKBB<sup>+</sup>14, GGF13]. **Packet** [BYHT18, LLL08, LLC17, LMT16, VKPI17, VWR11, YP13, ARS16, BAC12, CMS08, NYuR15, SSYW19]. **Padova** [Apo93a]. **PageRank** [LSV08]. **pages** [Ano97a, Ano97b]. **Pair** [BNV<sup>+</sup>13, PPZ08]. **Pairs** [GLS92]. **Paisley** [TL12a, TL12b]. **Palermo** [GM11]. **Palindrome** [Gal76b, IIT13a, Man75, IIT13b, Gal75, Gal76a]. **Palindrome-Recognition** [Gal76b]. **palindromes** [NHN<sup>+</sup>20]. **Palindromic** [HIRS17]. **Palo** [IEE93, IEE98]. **PAMA** [LCL06]. **paper** [Pet95]. **Papers** [Cro92a, Moo64, ACM69, ACM76, ACM81, ACM92a, ACM92c, ACM93a, ACM94a, ACM95a, BW91, IEE92, IEE93, A<sup>+</sup>08]. **paradigm** [AC93, JHU<sup>+</sup>24]. **PARAID** [WOQ<sup>+</sup>07]. **Parallel** [Ash85, BL94, BG92, CF06, CG87, Che96, CHL14, CCL87, CR92, CGG<sup>+</sup>97, CGH<sup>+</sup>98, DK13, ECSS88, FL99, GG87, Gal95, GJ16, GHK<sup>+</sup>91, GZ94, GS85, GIG77, GMAS22, HT17, HN02, HN05, IS86, KR94, KKK11, Kül10, LLCC13, LLC17, MS01, MR09b, Mut00, NR98, RR90, SV94, SN92, TLC15, TVCM12, VMML15, Wei83, BGNP94, BLPL92, BYK22, BG90, BG91b, Bre94b, Bre95, BH96, CL09, CCG<sup>+</sup>93, CR91, CR94, Gal84, Gal92, GS93b, GS93c, GF08, Hur84, Hyy08, II86, JRV96, JHU<sup>+</sup>24, KIH15, LV89, MK90, Mis03, MMS14, NYuR15, Ryt89, SY23, TTO<sup>+</sup>22, TLS16, ZC99]. **Parallel-Algorithms** [SV94]. **Parallelism** [JA17, JXA20, MKF91, Wri94, ASM17, CFKT17, HFN05, LV86b, NR00, RW93, SBB19]. **Parallelizable** [ATX21]. **Parallelization** [KP93, HA90, NE93, RP95]. **Parallelizing** [HN90, MIH17]. **Parameter** [Jok90, Sut21]. **Parameterized** [Bak96, BRL13, BDFW94, CHLT14, IS94, OP16, PA10, AFM94, Bak93, BA16, CGK08, FM06, HLS07, IS96, KC21, KPA10]. **Parameters** [CJBW16, CJBW13]. **Parametric** [Chl08, HPM94, WAH23]. **parametricity** [Rém17]. **parentheses** [PDC94]. **parentheses-matching** [PDC94]. **Parenthesis** [Sto96]. **Paris** [Cro92a]. **Parity** [MSV24]. **Park** [IEE89]. **ParsCit** [PKK18]. **Parse** [Fre78, Kea91a, DF00, Fre78]. **Parser** [Hol84, TB00, Gan89b, LK06, MLC08, PKK18]. **parsers** [Dya94]. **Parsing** [AU72, AU73, BRO16, Cam99, DA20, Gor00, MGH97, NH11, RD17, Rus88,



SL14, BvdM17, BG22, BBM21, GHR14, MMI14, Ier09]. **Part**  
 [CDPP23, JLH18, KP15, Kul11, Nav21a, Nav21b]. **Part-of-Speech**  
 [JLH18, Kul11]. **Partial**  
 [Ant95, Ant96, AYS<sup>+</sup>24, CW84, CD89, GL01, KK08, KMR21, Mor83, Ses96,  
 Smi91a, Zve80, ADR03, ADR06, DR06, HR03, Jør92, KCK93, MR09a, ST19].  
**Partial-Match** [Mor83, Zve80]. **Partially** [ZMSD93, HY92]. **Parties**  
 [XZL<sup>+</sup>19]. **Partition** [CF85, FR17, WL15b]. **Partitioning**  
 [Fat15, Kim99, LYWL08, Mid96]. **Partitions** [Knu05]. **partners** [LLL12].  
**Pascal** [Liu86, Sha88b]. **Paso** [ACM97c]. **password** [KJS17, MW94]. **Paste**  
 [Lud77, AM97]. **patches** [TCK90]. **Path**  
 [Bac94, BLLW12, CDLV99, CDLV02, HJ99, LM01b, LOZ<sup>+</sup>24, Sch22,  
 SNM<sup>+</sup>13, Tar81a, Tar81b, TPT13, ZJP<sup>+</sup>18, BBG13, CJR<sup>+</sup>21, Che96, CK02b,  
 LM12, MF96, PC02, SVM14, YCJK08, YT03]. **Path-** [TPT13]. **Path-space**  
 [SNM<sup>+</sup>13]. **path-wise** [MF96]. **Paths** [MNP<sup>+</sup>23, GLS07, LM13]. **Pattern**  
 [AMB<sup>+</sup>02, ABM08, AKW85, ABF94a, ABF96, AAL97b, ALL97, AAL<sup>+</sup>97a,  
 ALL98a, ALL00, AAL<sup>+</sup>00, ALR08, AAB<sup>+</sup>09, AP10, AWS16, Ano92b,  
 Ano96a, Ano96b, Ano17, AYS84, iA94, AYS<sup>+</sup>24, AG84, AG97, AT02,  
 ADLM96, AW89, Ash85, AJS92, AGS96, AD11, BYN98, Bak96, BCD98,  
 BEM<sup>+</sup>12, BLP18, Bee81, Bee13, BKLP97, BKL<sup>+</sup>02, BCKM15, BBL93, BBL98,  
 BYNTK21, Bow87, BTC06, BL16, BGJ01, BCFL12, BC93, BCC<sup>+</sup>13, CCFG12,  
 CFM17, CS98, CDM11, CG87, CK04, CLST<sup>+</sup>13, Cha02b, CZCD09, CWL<sup>+</sup>21,  
 CK92, CDEK95, CG94a, CLP95, CM08, CL95, CHZ06, CEPR10, CJPS12,  
 CDP14, CH03, Col94b, CG79a, CG79b, Cro92a, CR92, CR95b, CGPR95,  
 CL96, CGH<sup>+</sup>98, D'A98, DB86, DWE89, DLG12, D<sup>+</sup>23, DN77, Dit78, DCM15,  
 DGM94, Dwe00, EIV04, EF13, EGP14, Far92a, Far92b, FMMS20, FL08, FR00].  
**Pattern** [For02, FNU02, Fu95, Fu96, Fu97, GHLW15, GPP04, GC01, GRS99,  
 GIK97, GP01, GP03, GIMV03, Gaw12, Gaw13, GP93, GM02, Gia93, GG95,  
 GG97, GM11, GMC02, Gil85, GW92, GKP19, GWX<sup>+</sup>23, GGN06, Gri79,  
 Gri83, GL01, Gro92, GL86, Har02, Har97, HAR10, HH83, HL10, HT14,  
 Haz01, Hea71, HEWK03, Hei01, HL97, HUN<sup>+</sup>19, Hig95, HO82, HSTS01,  
 HGT24, How97, HW12, CVP86, IMR08, IST05, IMM<sup>+</sup>22, JLK<sup>+</sup>20, Jez15,  
 JSC83, KPR97, KPR00, KU99, KS12a, KR81a, KR81b, KR87, KR94, KRS95,  
 KRS97, KN00, KP93, Kes91, Kes79, KTSA99, KMT<sup>+</sup>01, Kid09, KS99,  
 KKSL01, KKK11, KS01, KS06, KM92, KM95a, KM95b, KMP77, KRR17,  
 Kor83, Kra08, KB18, KK02, KU09, KNS12, Kül10, K VX12, KNMH00, KC99,  
 Lab12a, Lab12b, LV94, Lav91]. **Pattern**  
 [LP13, LM01a, LKL02, LSTW<sup>+</sup>17, LY17, LT03, Les95, LV06, LYT<sup>+</sup>23,  
 LTL04, LA12, LLCC13, LJH<sup>+</sup>17, LLC17, LP11, Liu86, Liu88, LM02, Lut02,  
 MZ07, MS98, MBP22, MKF91, MU02, MW92a, MW92b, MGW14, MR11,  
 MNP<sup>+</sup>23, MSV24, MHT09, MUHT96, McI85a, McI85b, MS01, Mon17,  
 Mu 95, MuT95, Mut00, Mye92, Nao91, Nar91, Nav98, NBY99a, NR99b,  
 NBY01, NR03, Nav04b, NWE97, Ned98, NdMM02b, ND02, Neu10, NRS18,  
 NCKL14, OR12, OP16, OW03, Ott94, PDL98, PS10, Par96, PV91, Pet92,  
 PW95, Pit98, PPZ08, PP09, Pou93, PK85, PS93b, QTO<sup>+</sup>20, RR90, RR92,



Rao95, RM88, RKM21, RS98, RHR<sup>+</sup>21, Ric79, Ris16, RSG<sup>+</sup>19, SMD04, SCFC94, SN92, SP16, Sch95, SRR92, SRR95, Sel84, Ses96, Sha93, SN94, STSA99, SKF<sup>+</sup>00, Shi00, Shi04, SSSS10, Sim83, SF01]. **Pattern** [SdM01, SW09, Som82, Spi99b, SN24, TBD22, Taf22, Tak86a, Tak86b, Tak94, TT22, TMK<sup>+</sup>02, TM05a, TMV<sup>+</sup>01, TSI13, TK07, TL12a, TL12b, Ukk10, UFA<sup>+</sup>24, VSM87, VWR11, Via02, VG01, VRD01, Vis91, Vis99, Vol12, VS01, VB98, WAH23, WCM<sup>+</sup>94b, WZS95, WSW16, WZL<sup>+</sup>23, Wat96, WKA94, WD99, WBA83, WM92b, WSVS22, Xi03, YP13, YK11, YDW18, YGG<sup>+</sup>23, ZZ12, ZZH10, Zha17, ZdSO18, ZLN11, ZT89, Zue96, ADR03, ADR06, AK08, AK09a, Akl78, Alb89, ASG99, AYCLS02, ALV92, ALLL98b, AL01, ABC<sup>+</sup>04, AKT06, ALLS07, ABH<sup>+</sup>14, Ano01, Aoe89, Apo92, Apo93a, AH97, ACP05, AP90, ADLM01, AG06, BKLE18, BYR93a, BYR93b, BYCC03, Bak93, BDB90, BEM<sup>+</sup>13, Bar22, BA15, BA16, BYB<sup>+</sup>24, BCD14, BPPR20, Bir77a, BGJ89, BÖ13, BGWXP22, BYK22, Bra95, BBHK14, BKS02]. **pattern** [BDM19, CGK08, CPT92, CPW88, CF88, CGM10, Cha93b, Cha93a, CKP<sup>+</sup>21, Cha87, Cha02c, CRV06, CR95a, CLS95, CFCK22, CFKT17, CNPS15, CNS18, CS11a, CWZ10, CJPS13, CDP16a, CA18, CD18, CA20, Col90, CCG<sup>+</sup>93, CH97b, Col91, CT96, CD89, CGR93, CG94b, CR94, CCG<sup>+</sup>99, CKC07, DS04, DA18, DGG<sup>+</sup>19, DGM19, Dij76, Dijxx, Dow91, Dow93, DGM90, EASK14, ETV21, FLM<sup>+</sup>10, FWW13a, FWW13b, FWW13c, FLC<sup>+</sup>19, FC98, FHV18, Fen01b, FBMA05, Fri97b, Gaá04, GP92, GU95, GR99, GU16, GS00, GGF13, GG13, GPN96, GJS20, GZ10a, GS06, HIEH22, HWW07, HC87, HM96, HBRV10, HP01, HP03, HK77, How96, HLN09, IIT13a, Iba97, IHEH23, Ier09, Ind97, IM13, ISHY88, JGMP22, Jan23, JHU<sup>+</sup>24, JM93, JP11, Jon07, KTP10, KSVJ15, KS07, Kas08a, Kas08b]. **pattern** [Kas08c, KTS<sup>+</sup>98, KMS<sup>+</sup>03, KCK93, Kim99, KKNS23, KKH24, KS11a, Kin89, KS05, KMP94, KD15, Kos89, Kos94, KM13, Kri09, KKR<sup>+</sup>13, KGP<sup>+</sup>05, LLC03, LH13a, LH03, LS10, LS09, LP08, Liu81, LBK08, LO94, MCF<sup>+</sup>11, MCF<sup>+</sup>14, MK90, Man76, MMZ10, Mar07, MAI<sup>+</sup>16, MP05, MHM<sup>+</sup>01, MR09a, MR13, MA12, MPW21, Mun95, NYuR15, NNSP22, Nav00, Nav01b, NR02, NWE99, NdMM02a, NR17, NK07, Nil90, OK94, OR11, Oph89, OSSK16, Owo93, PPTT15, Par98, PS90, PC99, Per94, PMS11, Quo92, RM06, Rus88, SRK20, SBB19, Sas79, Sch81, Sch91a, Sch91b, Sch88b, Sen00, SGYM00, SSLL21, Sil77, Smi91a, SDS14, SGCW14, SHCY93, Spe85a, Spe85b, Spi99a, Sri93, Sto02, SALP20, SNM07, TZYH14, THQ19, TM04, TM05b, Tej20, Thi93, TIT83, IIT13b, TLS16, TJMC20, Val09, Van06]. **pattern** [VW11, Via04, Vin77a, Vin77b, Vis90, Wad87, WCM<sup>+</sup>94a, WGMH13, WC14, WL15b, WZ96, WW03, Wat03, Wea94, Yao79, YCJK08, YBTB23, ZC89, ZMAB03, ZA17, ZCÖ09, ZCÖZ12, dRL95, JD89, YIAS89, Ano97b]. **Pattern-Based** [EGP14, Far92a, Far92b, KS07]. **Pattern-Directed** [Kor83]. **Pattern-Match** [Pet92, GJS20]. **Pattern-Matching** [FR00, KPR97, KPR00, KR81a, KR81b, KR87, KRS95, KRS97, KP93, K VX12, LY17, Lut02, MUHT96, NWE97, Ned98, Ott94, Pou93, SCFC94, Sch95, SSSS10, SW09,



WM92b, CL96, GMC02, KN00, CF88, Dijxx, Fri97b, Gaá04, Ier09, KSVJ15, LH13a, Nav01b, NWE99, NdMM02a, OR11, Per94, Sch88b, Wea94].

**Pattern-Recognition** [AWS16]. **Patterns** [BLR14, BH85, BGS23, CLP98, CMNP17, CMNP18, Gim73, HNB<sup>+</sup>13, IS94, JGZL12, Kha16, Les79, LSWP19, Prü17, SB09, TMV<sup>+</sup>01, ADT15, Alb89, AG06, BLR11, BH13, BSM<sup>+</sup>07, BFS04, Bro77, CP10, Dan91, ETV88, IS96, JSH09, KPA10, KIH15, KRML09, LMM17, MR09a, NdMM02a, Tak93, Ver92, Vou06, Wal89, ZKCY07, ZJL14]. **payload** [NNSP22]. **PCRE** [Anoxx]. **Pearl** [KN12, ADU16, DA20, FHW10, JR15a]. **Pearls** [Ben86, Ben00, Bir10]. **pebbles** [EHS07]. **peeling** [ALLT11]. **Peephole** [All89, Spi99b, BA06, Spi99a]. **peer** [AB09]. **peer-to-peer** [AB09]. **Penalties** [KM92, KM95a]. **Pennsylvania** [ACM76, ACM99a, IEE92]. **people** [Mah07]. **pep** [Woo86]. **Peptide** [LZ18, SVS97]. **Perfect** [LLLC17, XMLC11]. **perform** [MW92b]. **Performance** [FWW12, HKL<sup>+</sup>14, IS90, JLK<sup>+</sup>20, KNT15, Lee09, MM02, MM03, RSG<sup>+</sup>19, Sca11, WGL<sup>+</sup>21, YP12, YK11, YJ84, CGM10, Fen01b, Hur84, LH13a, SNB<sup>+</sup>19, SWZ01]. **perils** [Fen01b]. **Periodic** [Mat94, CDM11, FLSS93a, FLSS93b, ZKCY07]. **Periodicities** [Sli83]. **Periodicity** [GPP04, MAI<sup>+</sup>16]. **Perl** [Lab12a, Lab12b, Ano97a, Anoxx, Fri97a, Han01, LT09, Mah07, NTS93, SPF08, Sno01, SM04, Stu07, Val09]. **Perl-based** [NTS93]. **Permutation** [BL16, MSV24, CNS18, KKR<sup>+</sup>13, BCKM15]. **Permutations** [BBL93, BBL98, Chr96, Iba97, Jan23]. **Permuted** [HUN<sup>+</sup>19, BEL04]. **Perrin** [Bre93, Bre96]. **Persimmon** [KKFI<sup>+</sup>24]. **Personal** [VB12]. **Pesky** [CJBW16, CJBW13]. **Petri** [GR92, PP85]. **Phase** [FYJ<sup>+</sup>17, CK02b]. **PhD** [HF13]. **phen** [Lia84]. **Phi** [TLS16]. **Philadelphia** [ACM99a]. **PHP** [B<sup>+</sup>05, GSL17, ST03, SM04, Stu07]. **physically** [SNM<sup>+</sup>13]. **physically-based** [SNM<sup>+</sup>13]. **Picking** [CJBW13, CJBW16]. **Piconets** [LTL04]. **Pictorial** [DOS93]. **picture** [Mar89, MPW21, TCC91]. **Pictures** [AGM19, JSC83, Tak93]. **Pipelined** [PLL08, ISHY88, PLL10]. **PipesFS** [dBB08]. **Pisa** [FL08]. **Piscataway** [FC98]. **Pitfall** [OK94, KOI94]. **Pittsburgh** [IEE92]. **PL** [FPD08]. **PL/SQL** [FPD08]. **place** [HTX17]. **Placed** [KBB01]. **placement** [HFFA09]. **Plagiarism** [PAMP12]. **Planar** [CM08, Hig86, TZYH14]. **plane** [AK09a]. **planner** [HRN<sup>+</sup>15]. **planted** [Tan14]. **PLAs** [KTU87]. **plasma** [AP90]. **Platform** [HZ13, MFMA15, MFMA17, PYY19, ZLN11, FNP09]. **Platform-Specific** [MFMA15, MFMA17]. **play** [FHW10]. **Plexus** [AB09]. **plush** [II09, MI07]. **Plushie** [MI07]. **PMETA** [Kes79]. **Pocket** [BK09, FPD08, GL03, Stu03, Stu07]. **PODS** [ACM95b, ACM99a, ACM07, HF13, ACM90a, ACM92b, ACM94c, ACM95b, ACM97a, ACM98]. **PODS'08** [LL08]. **PODS'11** [Len11]. **PODS'12** [KLB12]. **PODS'13** [HF13]. **Point** [CM08, GIMV03, Hig86, MU02, Ukk10, VS01, WKA94, ZHWW12, dRL95, AK09a, ACT10, CGK08, CS98, Rot91, TZYH14, WC14]. **Point-Pattern** [MU02]. **pointer** [MF96]. **points** [Jon13]. **Poland** [Win78]. **Polaris** [Wea94]. **Policy** [LTL04]. **Polling** [LTL04]. **Polymorphic** [Vou06]. **Polymorphism**



[KKF<sup>+</sup>24, DRW95]. **Polynomial**  
 [BCC<sup>+</sup>13, ISNH94, PW93, EMT23, FLM<sup>+</sup>10, GH09, Liu81].  
**Polynomial-Time** [ISNH94]. **polypeptides** [SHCY93]. **Pool** [BTTF02].  
**POPL** [ACM94a, ACM95a, ACM87]. **Population** [TMV<sup>+</sup>01].  
**Population-Based** [TMV<sup>+</sup>01]. **Portable**  
 [IEE01a, IEE01g, IEE01e, IEE01c, IEE01b, IEE01h, IEE01f, IEE01d, ZGE85].  
**portfolio** [LH13b]. **Portland** [ACM94a, ACM00, BGNP94]. **Posets** [FK16].  
**Position** [OS11, PRU11, SOR16]. **Positions** [IY02a, IY02b]. **POSIX**  
 [IEE01a, IEE01g, IEE01e, IEE01c, IEE01b, IEE01h, IEE01f, IEE01d, ADU16,  
 BBvdM21, BT21, SL14, Urb23, Kuk17]. **Possibilistic** [WD99]. **possibilities**  
 [LS99]. **Post** [KGP<sup>+</sup>05]. **Post-compilation** [KGP<sup>+</sup>05]. **Postprocessing**  
 [RJK79]. **PostScript** [HV93]. **Potential** [KNMH00]. **Power**  
 [Bao93, Wol90, KPP21, WOQ<sup>+</sup>07]. **power-aware** [WOQ<sup>+</sup>07]. **PowerEN**  
 [HKL<sup>+</sup>14]. **Powerful** [Ano97a, Pol01, Fri97a, NTS93]. **Practical**  
 [ALR08, BYP92, CSY03, DNM00, HHM<sup>+</sup>13, Hor80, IMM<sup>+</sup>22, KK95, Lut02,  
 NT20, NR99b, PPTT15, TTHP05, BYP96, CCG<sup>+</sup>99, ĎHPT10, Maa06,  
 NR02, PSK17, WR15]. **Practicality** [TT82]. **Practice** [CCFG12, CJBW16,  
 DGBH93, KP99a, CJBW13, DRSS96, WL15b, Lut02, KKP92]. **PRAM**  
 [Apo93b, PDC94, dB93]. **Pratt**  
 [Bar81, DS04, Hua98, Moy24, PV91, TA90, Ukk10]. **Pre** [BAM<sup>+</sup>24].  
**Pre-Alignment** [BAM<sup>+</sup>24]. **Prealignment** [KYG19]. **Precessions** [SS93a].  
**Precise** [PIR17]. **predicate** [BG91a, MFRW09]. **predicate/transition**  
 [BG91a]. **predicates** [Gan89b, STKD20, TP07a, TP07b]. **Predicting**  
 [Git96]. **prediction** [Fen01b]. **Predictive** [KKSL01]. **Prefetching**  
 [JDXD13]. **Prefix** [BM00, BCT94, BCT98, CIK98, GLS92, HWW07, Han13a,  
 HAR10, HTK<sup>+</sup>21, RT17, BBHK14, BCT93, Bre95, BFK<sup>+</sup>03, DK13].  
**Prefix-Free** [Han13a, HWW07]. **Prefix-Matching**  
 [BCT94, BCT98, BCT93, Bre95]. **Preliminary**  
 [GS81b, LS94, WCM<sup>+</sup>94b, Kos94, WCM<sup>+</sup>94a]. **Preprocessing**  
 [Nao91, ZCH23, CCG<sup>+</sup>93, Ryt80, Sto02, Tak96b]. **Presence** [HT14].  
**presented** [ACM69, ACM74, ACM76, ACM81, ACM92a, ACM92c, ACM93a,  
 ACM94a, ACM95a, NEH90]. **Preserving** [SJNS19, XZL<sup>+</sup>19, CFKT17,  
 CNPS15, DGM19, GU16, JHU<sup>+</sup>24, KEF<sup>+</sup>14, KKNS23, QPWH08, VRC24].  
**Press** [Ano97b]. **Prevention** [TS05, TBS06, VS11]. **previews** [Chi17].  
**prime** [LS09]. **Primer** [Lut02, YC22]. **primitive** [Dow93]. **Primitives**  
 [KM94]. **principle** [CL09]. **principled** [Cox10b]. **Principles**  
 [ACM83, ACM87, ACM90a, ACM92a, ACM92b, ACM93a, ACM94a,  
 ACM94c, ACM95a, ACM95b, ACM97a, ACM98, ACM99a, ACM06, ACM07,  
 AP90, DRSS96, HF13, KLB12, LL08, Len11, MMZ10, KKP92]. **priorities**  
 [CFLH<sup>+</sup>22]. **Priority** [Lav91]. **Privacy** [MBP22, SJNS19, XZL<sup>+</sup>19, VRC24].  
**Privacy-aware** [MBP22]. **Privacy-Preserving** [SJNS19, XZL<sup>+</sup>19, VRC24].  
**private** [SRK20, WR15]. **privatization** [RP95]. **Probabilistic**  
 [AJS92, CZOdIH17, LSV08, MHKR12, Sch91a, Sch91b, TMV<sup>+</sup>01].  
**Probabilities** [PM78, Neb06]. **Probability** [SCFC94, SD95]. **Problem**



[BCT94, BCT98, CF06, CK02a, F<sup>+</sup>23, FR17, HL94, Hui92, KO83, KS11b, KS12b, KZ02, Pet02, PW93, Sut21, Yan95, Akl78, B<sup>+</sup>05, BSTU08, BC06, BCT93, CNS18, CM07, Dij76, Dijxx, FL13, Goo05, Gra15, Gro91a, GZ10b, Hov12, Kar82, KD15, Lei81, Maa06, Mae90, Mäk89, Man76, RTO15, Rob79, Sch81, SZ05, SLL21, Tak96a, Tan14, TTO<sup>+</sup>22, Tho81, YT03, YHV<sup>+</sup>15, tC09, GLS92, BLPL92]. **problem-based** [BC06]. **problem-solution** [B<sup>+</sup>05, Goo05]. **problem-solving** [Tak96a]. **Problems** [CK92, Gon02, Hea71, KPR97, KPR00, Loh10, MNS10, OP16, RS59, SV94, Tar81a, Tar81b, Via02, AI18, FMdB99, Gro91b, GHK14, HY92, HTX17, Hun79, Ind98, Kra08, Mid96, Nic03, Sri93, SH85, Via04]. **Procedural** [Sym85]. **Procedure** [Gin67, CS11b, HW09]. **procedures** [MP88, TN13, TN15]. **Proceedings** [ACM90a, ACM92b, ACM94b, ACM94c, ACM95b, ACM97a, ACM98, AGS93d, DGBH93, KP15, KLB12, Len93, Len11, Lev95, SC04, SC05, SM09, ACM81, ACM08, ABB93, B<sup>+</sup>02, Bro93, FGR72, HF13, IEE92, IEE93, IEE94a, IEE98, Kap92, MG94, SC93, SC99, SC01, SC02, SC03, SM10, WN90, Win78, ACM83, ACM84, ACM86, ACM90b, ACM91, ACM92c, ACM92d, ACM93b, ACM94d, ACM95c, ACM97b, ACM97c, ACM99a, ACM99b, ACM00, ACM06, ACM07, AL01, AP10, AGS93a, AGS93b, AGS93e, AGS93c, Ano87, AAC<sup>+</sup>01, AT02, AOV<sup>+</sup>99, BYCC03, Bao93, Cha86, DT87, DMVT13, FC98, FL08, FJ92, FMA02, GS00, GM11, Hwa85, CVP86, IEE88, IEE90, IEE94b, IEE95b, IEE09, KS12a, KU09, LL08, LV06, MZ07, PC99, SMD04, SW94, Sto92, SC98, USE92, Apo92, Apo93a, AH97, ACP05, BGNP94, Bun94, CG94b]. **proceedings** [GU95, HM96]. **Proceedings.** [BGG<sup>+</sup>94]. **Process** [Gro91a, HHW<sup>+</sup>99, Sid95, Sid99, Sid00, Sid02, VVV04]. **Processes** [SBF80, AB89]. **Processing** [AKW85, AWD<sup>+</sup>18, CCL87, GWX<sup>+</sup>23, GSL17, JLK<sup>+</sup>20, LLLC17, LPJ23, Lud77, PYY19, SRV<sup>+</sup>19, SK17, TMK<sup>+</sup>02, VCS<sup>+</sup>12, VKPI17, dLBHC22, vNG01, CL09, CK08, ECSS88, FGR72, Gre88, KNT15, KSH<sup>+</sup>15, Kit94, QWX<sup>+</sup>13, ZXL<sup>+</sup>13]. **Processor** [HKL<sup>+</sup>14, RSG<sup>+</sup>19, TT22, LHCK04, ME97, MM07, Sas79, TLLL07, WKR09, CPW88, Sca11]. **processor-based** [LHCK04]. **Processors** [AWS16, LY17, VCS<sup>+</sup>12, VSP08, YP13, TLLL09, YIAS89]. **Production** [DWE89, MUHT96]. **productivity** [AP13]. **products** [Yod91]. **Professional** [HZ13, JNS08]. **Profile** [FhDAF09]. **Profile-guided** [FhDAF09]. **Profiles** [SB09, PJP<sup>+</sup>18]. **profondeur** [Alb89]. **Program** [ASJDW21, CDL<sup>+</sup>15, JP73, Mu 95, MuT95, Wea94, Fil21, HR01, Kod79, KMMPN85, Mag81, MP09, Mun95, Pel87, Pep91, Pra97, WZS95]. **Programmable** [CFS<sup>+</sup>89, GHK<sup>+</sup>91, LK90, OA17, WZL<sup>+</sup>23, LK88, LLL<sup>+</sup>24, MM07]. **Programmer** [AKW85, BF97, HHW<sup>+</sup>99, Mae94]. **Programming** [ACM92a, ACM92c, ACM93a, ACM94a, ACM95a, AGT89, AWS16, Ben86, Ben00, Ham88, Hud89, KP99a, KN17, Knu05, Kor83, Mae94, Mor90, Mye98, ND02, NM10, Ruc15, Ste12, Sym85, Tho68, VHC88, Wen93, ACM87, APTS13, AC93, BDMT16, BAC06, BW91, BK89, CM86, Coh90, DV21, Ear74, Fla88,



HJW<sup>+</sup>92, KS08, KN19, Mor02, Mye99, Pie08, Rob87, Smi91a, Str13, YIAS89].

## PROGRAMS

[BY91, Bir77b, EGP14, RND97, VMML15, Web95, BY92, BK86, Gol90, HN90, Jon07, KOI94, Kap69, NWE99, NAR08, OK94, OR11, Rus92, SLTB<sup>+</sup>06, dH05].

**PROGRES** [Zue96]. **Progressive** [CZW15, XMLC11]. **Project**

[YC22, BW91]. **Project-Based** [YC22]. **Projections** [Wei83]. **PROLOG**

[Wei84, CF88, Gan89a]. **Proof** [Asp12, CD18, Fil21, KN12, Sha88a, WW93, ADU16, CDP16b, GO80, PPTT15, Rus85, Pux97]. **Proof-directed** [Fil21].

**Proof-relevant** [CD18, CDP16b]. **ProofChecker** [SBR<sup>+</sup>07]. **PROOFS**

[BY91, GHW05, BY92, BY96b, KPP21, SBR<sup>+</sup>07]. **Properties**

[Sli78, AS85, FWDL15, LMN16]. **property** [KKM<sup>+</sup>85, LM13]. **Proportion**

[AW89]. **Proposal** [Liu88]. **Protein**

[BNV<sup>+</sup>13, CLST<sup>+</sup>13, CCL87, LSTW<sup>+</sup>17, Les95, LZ18, MGW14, NR03, Pol13, VG01, FLSS93a, FLSS93b, HAI02, KD15]. **Protein-DNA**

[CLST<sup>+</sup>13, LSTW<sup>+</sup>17]. **Protocol** [XZL<sup>+</sup>19, AB09]. **Protocols**

[GKW<sup>+</sup>10, HL10, HSL10, SRK20]. **Prototype** [Mu 95, MuT95, Mun95].

**Prototyping** [CFS<sup>+</sup>89]. **Provably** [GH13]. **Prover** [Kau92, KP96a, BKM95,

Gol90, HA90, KP96b, Moo12, Pie95, Rus85, Rus92, WW93]. **provers**

[VLP17]. **providing** [BH07]. **proving** [AGH<sup>+</sup>17]. **proxies** [KT14].

**Proximity** [BYCMW94]. **Pruning** [ZGS<sup>+</sup>15, PC02]. **pu** [Lia84]. **publish**

[ZCT14]. **publish/subscribe** [ZCT14]. **Publisher** [KRS23]. **PUF**

[RMK<sup>+</sup>14]. **Punctuation** [GWvG10]. **Purdue** [Hig95]. **purely** [HJW<sup>+</sup>92].

**Purpose** [VCS<sup>+</sup>12, WSVS22, AAB<sup>+</sup>86, Sch91a, Sch91b]. **push**

[GOMSJVGP08]. **push-down** [GOMSJVGP08]. **Pushdown** [Coo72, MS98].

**Puzzle** [BK93g]. **pyramid** [SS94]. **Python**

[DV21, KB18, LR14, Rom14, SM04, Stu07].

**Q** [MP88]. **Q&A** [Cal00]. **Q-Coder** [MP88]. **QED** [Ritxx]. **quadratic**

[EMT23]. **quadtree** [SS94]. **quadtrees** [BK89]. **qualitative** [MLM<sup>+</sup>08].

**Quality** [LLW<sup>+</sup>15]. **quantification** [Kau92]. **Quantitative**

[ARM<sup>+</sup>19, Liu88, Sca11, YPG21, MRA<sup>+</sup>17]. **Quantum**

[IMM<sup>+</sup>22, JN24, Mon17]. **quasi** [Kos94, NCV10]. **quasi-equally** [NCV10].

**quasi-real-time** [Kos94]. **Quebec** [ACM94d]. **Queries**

[AKT20, BYCMW94, BLLW12, CDLV99, CDLV02, FLS98, HJ99, Kin92,

LOZ<sup>+</sup>24, Sch22, WWW<sup>+</sup>16, ADT15, Arn93a, Arn93b, BBG13, CJR<sup>+</sup>21,

CK02b, FWW12, FLC<sup>+</sup>19, IKX15, KC15, LMRT14, MRA<sup>+</sup>17, SVM14,

ZXL<sup>+</sup>13, ZCÖZ12]. **Query**

[AAB<sup>+</sup>17, FLS98, KM94, LLS<sup>+</sup>20, AYCLS02, AL08, BLSS03, BFS00, CDL08,

CMW87, FWDL15, HRN<sup>+</sup>15, KNT15, KSH<sup>+</sup>15, LRV13, MZZ10, PC02,

QWX<sup>+</sup>13, RM06, XQW<sup>+</sup>13, YBTB23, ZCÖ09]. **query-** [FWDL15].

**Querying** [AGP18, BLR11, BLR14, CMNP17, KTY<sup>+</sup>18, LM01b, LMV16,

San15, TV14, CM95, GW92, LLS12]. **Question** [KKSL01, AFI98, CKC07].

**Question-Answering** [KKSL01]. **queues** [SWZ01]. **Quick**

[Rob99a, Rob99b]. **Quickscan** [Sil77]. **QuikFind** [Cha91]. **quirky**



[MLM<sup>+</sup>08]. **Quoted** [PSK17]. **Quotient** [FPP08]. **QVT** [LLS12].

**R** [Hoc19, KW19, Liu14, Ram94, Val09, van14a, van14b, Lab12a, Lab12b].  
**R-Trie** [KW19]. **Rabin** [GBY90a, GBY90b]. **RAID** [WOQ<sup>+</sup>07]. **Ramsey** [Kun95]. **Random** [Ale94, NR21, RKH02, SD95, CADA18, CRV06, Jan23, Rou21, SN94, Yao79].  
**Randomized** [AJS92, ACD01, BST<sup>+</sup>03, CGG<sup>+</sup>97, KR81a, KR81b, KR87, TWZ23, AGW13, CH97b, II86]. **range** [HFI<sup>+</sup>08]. **Rapid** [CG79a, CG79b, Gri79, Bak78, AWS16]. **Rapidly** [Dav73]. **RASSA** [KYG19]. **Raster** [AGS93a, AGS93b, AGS93d, AGS93e, AGS93c]. **Rationale** [IEE01c, IEE01d]. **Ratios** [Huc21]. **ray** [SS93b]. **RDF** [HRN<sup>+</sup>15, KSH<sup>+</sup>15, LRV13, LRSV18]. **Re** [BvdM23, MCP17, ORT09, CGR02, CGR03]. **re-examined** [ORT09].  
**Re-examining** [BvdM23]. **RE-Tree** [CGR02, CGR03]. **Re-Vectorization** [MCP17]. **re2** [Cox10b]. **reachability** [FWW12, GZ10b].  
**reachability-bound** [GZ10b]. **REACT** [JLK<sup>+</sup>20]. **Reactive** [HFFA09].  
**Read** [BAM<sup>+</sup>24, GMAS22, KYG19, FSL<sup>+</sup>15]. **reading** [BWG12]. **reads** [FSL<sup>+</sup>15]. **Real** [BG14, Gal76a, Gal81, HHW<sup>+</sup>99, Kos94, MNR<sup>+</sup>23, Sli78, Sli83, VSP08, BGM13, CM90, Gal75, NNSP22]. **Real-Time** [BG14, Sli78, VSP08, Gal76a, Kos94, BGM13, Gal75, NNSP22]. **Real-World** [MNR<sup>+</sup>23]. **Realization** [CEW58, Kle56, TB00, XK92]. **Rearrangement** [AAB<sup>+</sup>09]. **Reasoning** [ADT15, GNU94, PS88, BGWXP22, KS07, PS90].  
**Rebus** [Gri85]. **Recalibration** [BM08]. **recipes** [B<sup>+</sup>05, Goo05].  
**Recognition** [ACR01, AWS16, BGJ01, CFP19, CG87, CJ93, CTF<sup>+</sup>98, CLP95, D<sup>+</sup>23, Gal76b, GS93a, CVP86, LT90b, PDL98, PG90, SA96, WD99, Wol86, Yam01, AAB<sup>+</sup>86, BWG12, Gal75, Gal76a, KSWC93, KKM<sup>+</sup>06, KKM<sup>+</sup>13, Kin89, Sel84, SKS96, ZC89]. **recognizable** [HY92]. **Recognized** [RJK79]. **recognizers** [Fos89]. **Recognizing** [Ray96]. **Recombinant** [Cop91]. **Recompression** [Jez15]. **Recomputing** [HPM94]. **Reconciling** [IM13]. **Reconfigurable** [BM00, MLC08, NNSP22, ZL18, CMS08, Ram94, WKR09]. **Reconstructing** [Wei83]. **Reconstruction** [Sha93, Sto96, NCV10]. **Record** [Wei84, ACM69, ACM74, ACM76, ACM92a, ACM93a, ACM94a, ACM95a, VRC24].  
**Rectilinear** [GK86]. **Recursion** [Bir77b, AP13, BFS00, CM90, CMW87].  
**Recursive** [FR00, FKP77, JD89, Dow93, GPR95b, HN90, Kra08, NTS93].  
**Reduce** [CKW09, SASU13, Har79, Kes79]. **Reduced** [TJD<sup>+</sup>17].  
**reducibility** [KR95]. **Reduction** [KNMH00, She59, DWE89, RP95, SN24].  
**redundancy** [Joh94b]. **Redundant** [RJK79]. **reexamined** [ORT08].  
**Refactoring** [WGMH13]. **refactorization** [Rém17]. **Reference** [Rob99a, Rob99b, Sch14, BK09, FPD08, GL03, Mha05, PKK18, SSLL21, Stu03, Stu07, ZZJC20]. **References** [AS91, Bar90, FS19, WL15a].  
**referencing** [Lar98]. **Refined** [Pet94, Sch88b]. **Refinement** [ASJDW21, ASJDW18, Mor90]. **reflection** [HS08, Mor02]. **Reflective** [Dwe00]. **refunctionalization** [RTO15]. **Regenerate** [RT18]. **Regex**



[Ano10, BDMT16, CFLH<sup>+</sup>22, Kuk17, MNR<sup>+</sup>23, RVV23, Sch13, THL<sup>+</sup>20, CS09, Sch12, BTTF02]. **Regex-based** [BDMT16]. **Regex-dependent** [CFLH<sup>+</sup>22]. **regexes** [MMI14]. **RegeXeX** [BH07]. **Regexpcount** [Nic03]. **Region** [Bao93]. **regions** [CM95]. **Register** [VSM87]. **REGISTOR** [PYY19]. **Registration** [DMWW77]. **Regular** [ARM<sup>+</sup>19, AM91, ADR15, Ano68, Anox, Anox, Ant95, ACT10, Asp12, Bac94, BLR14, BTG83, BDD<sup>+</sup>14, BR20, BC13b, Bee13, BF97, Ber00, BGNV10, Bra94, BC94, BFS04, BMMR19, BTC06, BK93b, BKW92d, BK93f, Brz62, BP63, Brz64b, Brz64a, Brz65, CDLV99, CDLV02, Cam99, CSY03, CZ01, Cha01, Cha02a, CLOZ04, COZ09, CJM12, CDJM15, CGR02, CJBW16, CBD<sup>+</sup>23, CHP92, CT23, CC97, CKW09, CGS17, CDC<sup>+</sup>23, CDL95, CDL99, CDPP23, Cox07, Cox09, Cox10a, Cox12, CS22, Dav99, Dav03, Dav04, Dav21, Dav22, DM11, EJ23, EU98, FRU<sup>+</sup>20, FLS98, FU82, Fri02, FC04, GJ16, GRS99, GGM12, GN12, Ghi62, Gib21, GS22, Gil70, Gin67, Gol93, Goo05, GL12, GH13, GH15, HHM<sup>+</sup>13, Hab04, HM98, Ham88, HWW06, Han13a, Han13b, HWJ03].

**Regular** [HN11, HJ99, Hir96, Hol84, HK11, Hos06, HVP00, HP01, HP03, HVP05, HN00, HSW97, HSW01, Hum97a, Hum97b, Hum99, IY02a, IY02b, JLK<sup>+</sup>20, KT06, Kap69, KTU87, Kea91a, KP99b, KP99c, Kin92, KM92, KM95a, KLH16, KMRY20, KN12, KV15, KZ02, KST12, LS99, LS06, Lar98, LKM23, Lee09, LZHZ98, LM01b, LOZ<sup>+</sup>24, LTV15, LT16, LN19, LT09, Loh10, Mad01, MS98, Mag81, MC24, MNS10, MY60, MPN<sup>+</sup>14, MSZ17, MR09b, MPdS12, MGF97, Mye92, MOG98, NCJF18, NR99a, NR01, Nav01c, Nav04a, NR04, NR21, NH11, NM10, OS11, OWP16, Org03, OF61, ORT08, ORT09, Pak91, PM78, PPA10, Pat71, Pet02, Pik06, Pra97, Pre99, Ray96, Rez92, RD17, Ric79, Sab76, SA96, Sca11, Sch22, Sch99, SD95, SS93a, Sou99, Spe85a, Spe85b, SM99, Stu03].

**Regular** [Stu07, SvS14, SL14, SL17, TV14, TB00, Uma97, Urb23, VCS<sup>+</sup>12, VB23, VHC88, Wag74, WPKL13, Wat96, Wen93, WMM95, WZU14, XK92, XLC19, Yam01, YPG21, YP12, YQW<sup>+</sup>16, ZGS<sup>+</sup>15, ZMWL20, ZCH23, Zia96, dLFM07, vNG01, AFI98, AI18, Agu23, Ano97a, AGM05, AM95, Ant96, AOMC07, ACM02, ADU16, BCG07, BYG96, BBG13, BAC12, BRL13, BdFED<sup>+</sup>20, BG91a, BDFR08, BvdM17, BBvdM21, BvdM23, BS86, BNSV10, BFC08, BFG09, BG22, BBM21, BK86, Bra95, BH07, BKW92a, BKW92b, BK93c, BK93d, BKW92c, BK93e, BDM19, CS09, CGR03, CP97, CJR<sup>+</sup>21, CJBW13, CX20, Chi17, Cho78, CK02b, CLT07, CK08, CGPS13b, CGPS13a, CS11b, Cox10b, CDLM17, DL03, DF00, EZ74, EZ76, FL71, FDG<sup>+</sup>11, Fil21, FHW10, Fos89, FS19, Fri97a, Fri06a, GLRÁ11, GR92]. **regular** [Gef03, Gel10, GL03, GS07, GHR14, GMS12, GM17, GH09, HW07, HWW07, HY90, HSJ04, Hoc19, HW09, Hov12, Hun79, Jan85, JSH09, Joh69, Kah06, KR22, KS08, Kar82, Ker07, KGA<sup>+</sup>12, Kin91, KMR21, Lau00, Lau01, Lee82, LSO17, Lei80, Lei81, Lei85, LWS<sup>+</sup>16, Lif03, LLL<sup>+</sup>24, LR14, LM13, LMN16, LMS21, Lus94, MMDdJ11, McI04, MR05, Mor02, MZZ10, MPW21, MM89, NNSP22, NT20, Nic03, PHXD19, PC02, PIR17, PM23, PLT14, PIT<sup>+</sup>03, PPPdG20, RT18, Rob79, Rom14, Ryt89, Sak21, SCF<sup>+</sup>17, San15, SMS15,



SGYM00, Sha88b, SY72, SH85, SM04, ST19, SSW19, SLZ<sup>+</sup>20, SMW<sup>+</sup>23, SMT<sup>+</sup>86, TN13, TN15, UIM22, Vou06, WXZY12, WL15b, WBS22, WW03, Wat03, WR15, XH23, XJT<sup>+</sup>04, Yam19, YKGS11, YH91, YH92, YB13, YBTB23, ZZH16, ZC99, ZYX<sup>+</sup>12, tC09, Tho68, Ano12].

### **Regular-Expression**

[BTC06, Han13a, YQW<sup>+</sup>16, ORT08, ORT09, SCF<sup>+</sup>17, WR15]. **Regular-like** [BTG83, MPW21]. **regulatory** [MMDdJ11]. **reifiable** [dSOMY15].

**Reinforcement** [KK02]. **Related** [CHZ06, AS85, Gro91b, Sri93]. **Relation** [KN12, MR92, Pre99, LSV08]. **relational**

[BGHZ15, HC87, KWLL08, MZZ10, DWE89]. **Relations**

[KAN<sup>+</sup>17, BLSS03, BÖ13, LLS12, MAI<sup>+</sup>16]. **Relationship** [XK92, GR92].

**relaxation** [SHCY93]. **relaxed** [BYB<sup>+</sup>24, BYK22]. **relevant**

[CDP16b, CD18]. **Reliability** [FO76]. **Reliable** [KKSL01, CDC96]. **Remark** [Tho81, Pet95, TCC91]. **Remarks** [CR87]. **REmatch** [RVV23].

**Rematching** [LYT<sup>+</sup>23]. **Removal** [KK95, MGF97]. **Renyi** [AW89]. **repair**

[PHXD19, Huc21]. **Repairing** [CT23, LWS<sup>+</sup>16]. **repeat** [KW05]. **repeated**

[LO94, Thi93]. **repeating** [UIM22]. **repetitions** [Cro86]. **Repetitive**

[CDM11, Nav21b, Nav21a]. **Repetitiveness** [Nav21a]. **replacement**

[NAR08]. **Replacing** [DCM15]. **replication** [HFFA09]. **Report**

[GS81b, HJW<sup>+</sup>92]. **Reporting** [MOG98]. **representable** [Dow93].

**Representation** [NR01, YBTB23]. **Representations**

[KAN<sup>+</sup>17, YB13, ZC89, ZZH16]. **Representing** [MNP<sup>+</sup>23]. **Required**

[MW92b]. **requirement** [LH13a, ZKCY07]. **requires** [Rob79]. **rescuing**

[FSL<sup>+</sup>15]. **Research** [AWD<sup>+</sup>18, CPW88, IEE89, KL02, Med23, SVM14].

**RESeED** [SCF<sup>+</sup>17]. **Residue** [BM00]. **Resilient** [ABBH<sup>+</sup>16, RMK<sup>+</sup>14].

**Resistive** [KYG19]. **resolution** [OW03]. **resource** [FK96].

**resource-bounded** [FK96]. **resourceful** [BFP<sup>+</sup>08]. **Resources**

[HAR10, SBM<sup>+</sup>18, LG16, MP09]. **ResSeq** [FSL<sup>+</sup>15]. **Restore** [CMR18].

**Restricted** [Kin92, LOZ<sup>+</sup>24, OWP16, Lei81]. **Results**

[FMMS20, Lec95, WCM<sup>+</sup>94b, FL13, Sid99, Sid02, WCM<sup>+</sup>94a]. **Retargetable**

[GFH82, BDB90, Gan89a, MR82, Fra83, GHF83a, GHF83b, WNL<sup>+</sup>83].

**Retargeting** [MFMA15, MFMA17]. **RETE** [Alb89, MK90]. **Retrieval**

[BBH<sup>+</sup>87, DS19, FBY92, GR96, LZ96, MKF91, Mor83, Zve80, All82, BSY00,

LMNT16, PMD01, SD91a, SD91b, ZKA12]. **Reusability** [PV91]. **reusable**

[MME14]. **Reuse** [HL97, HR01, Rém17]. **Reverse** [RMK<sup>+</sup>14].

**Reverse-Engineering** [RMK<sup>+</sup>14]. **Review**

[Ano97a, Ano97b, Ano12, Gue87, Hig95, Hum97a, Hum97b, Lab12a, Lab12b,

Neu10, Pux97, Sal01, Tal81, Uma97, FL13]. **revised** [A<sup>+</sup>08]. **Revisited**

[Nag21, AG86, CCI<sup>+</sup>13, GL01, RUG97]. **rewrite** [KN00, Ram94]. **Rewriting**

[AM95, CDLV99, CDLV02, Dur94, EZYA23, GHW05, Lav91, ND02, GMC02,

KR95, PSK17]. **Rewriting-Based** [ND02]. **REX** [Cam99]. **Rexx** [LS06].

**Rey** [ACM69]. **rich** [ELF22]. **Richardson** [Sid95, Sid99, Sid00, Sid02].

**Richness** [QPWH08]. **Richness-preserving** [QPWH08]. **RICS** [TJD<sup>+</sup>17].

**RICS-DFA** [TJD<sup>+</sup>17]. **Rider** [MFMA15, MFMA17]. **rifarensu** [SM04].



**Right** [NWE97, Ned98, Pat71, CWZ10, HR03, Tak96b]. **Right-Linear** [Pat71]. **right-to-left** [CWZ10, HR03]. **Rigid** [JM85]. **Rigid-Body** [JM85]. **Rigorous** [Taf22]. **RISC** [TT22]. **RISC-V** [TT22]. **Risk** [Lut02]. **Risk-Based** [Lut02]. **RNA** [ABH<sup>+</sup>14, BA15, IMR08, MP05, SBHM94, Shi00, Shi04]. **RNAi** [QLY07]. **Road** [KTY<sup>+</sup>18]. **Robert** [Tal81]. **robot** [PS93a]. **Robust** [BH13, Le 91, LZ18, RMK<sup>+</sup>14, TD18, WZJH12, YP13, BFN<sup>+</sup>09, HLN09]. **Roll** [Tay97]. **Roma** [AAC<sup>+</sup>01]. **Roman** [Sal01]. **Root** [CHZ06, TLLL07]. **root-hashing** [TLLL07]. **Root-To-Frontier** [CHZ06]. **Rosenberg** [CR91]. **Rosser** [KKM<sup>+</sup>85, Sha88a]. **Rotation** [FU98, HW12, HLN09, TZYH14]. **Rotations** [FNU02, ABC<sup>+</sup>04, AKT06]. **Route** [Les94]. **router** [MLC08]. **Routine** [Fre78]. **routing** [SMS15]. **Routing** [KBB01, LMMN07]. **Rs** [GW92]. **Rs-operations** [GW92]. **Ruby** [Stu07]. **Rule** [Han92, RT17, Gre88, Oph89]. **rule-based** [Gre88]. **Rules** [CvW18, Ghi62, Lav91, GMC02]. **Ruleset** [Sca11]. **Run** [Chu95, MHT09, BFKL13, BC95, RP95]. **Run-Length** [Chu95, BFKL13, BC95]. **Run-Time** [MHT09, RP95]. **Running** [DLG12, Gal79, BYR92, NAR08]. **Runs** [BL16]. **runtime** [Rob92, dH05]. **Russians** [Mye92]. **Rust** [Bal15, KN17, KN19, YC22].

**S** [Tal81, BGFK15a, BGFK15b]. **safe** [HS08]. **safer** [Rém17]. **safety** [FF08]. **Salomaa** [AFI98]. **salute** [FvGGM90]. **sam** [Pik87, Pik00]. **Samples** [GZ94, ST96b, ST96c, Tak94, Kin91]. **Sampling** [FMP20, GPR95a, Lut02, Vis91, WSW16, CGR93, Vis90, ZHWW12]. **San** [ACM92c, ACM92b, ACM93b, ACM95a, ACM95b, DT87, IEE94b, KP15, Sto92, USE92]. **Sandeep** [Hig95]. **sanitizer** [VS11]. **SANTM** [TJGY22]. **SAR** [B<sup>+</sup>02]. **Saratoga** [Kap92]. **SASL** [LT90a]. **Satellite** [SS93a]. **Savage** [Sal01]. **Savage-Smith** [Sal01]. **Saving** [Bre93, Bre96, GS80]. **SAXRegEx** [YBTB23]. **Scaffold** [LJZZ13]. **scalability** [KNT15]. **Scalable** [ARS16, BAC12, BBHK14, BTC06, HSL10, JLK<sup>+</sup>20, LQL<sup>+</sup>16, LT16, MT14, RHR<sup>+</sup>21, SRV<sup>+</sup>19, VWR11, WGL<sup>+</sup>21, WZL<sup>+</sup>23, YP13, ZLN11, AB09, BGFK15a, BGFK15b, KTP10, PIR17, TLLL09, VW11, WL15b]. **Scale** [LP13, LYWL08, TZYH14, WHZ<sup>+</sup>17, ZWH<sup>+</sup>21]. **Scaled** [BEL04]. **Scaling** [HW12, MS01, YDDB15, ALV92, HLN09, KKNS23]. **Scan** [MIH17, Gre88]. **scanner** [Hur84, ISHY88]. **Scanners** [HKR92]. **Scanning** [AKW85, PWW<sup>+</sup>11, CWZ10, HFI<sup>+</sup>08]. **SCCs** [ZYQ<sup>+</sup>15]. **Scenes** [BZ98, BSM<sup>+</sup>07]. **scheduling** [LMMN07, Mid98]. **schema** [IHK08, MNS07, dLFM07]. **Schemas** [BGNV10, MNS10, KS07]. **Scheme** [Bur84, FK16, JDXD13, Man94, Man97, Bur82, Kod79, KRL87, LH13a]. **Schemes** [KK08, Pel87, QWX<sup>+</sup>13]. **School** [Cro92a, Ano92b]. **Science** [ACM89, FJ92, Gus97, IEE89, IEE90, IEE92, IEE93, IEE95a, IEE97, IEE98, IEE09, Ker04, Win78]. **Scientific** [WCM<sup>+</sup>94b, ORPF13, WCM<sup>+</sup>94a, WZS95]. **Scolopax** [ORPF13]. **Score** [Ben94]. **Scores** [CLST<sup>+</sup>13]. **Scoring** [KK08, OSSK16]. **Scotland** [AOV<sup>+</sup>99]. **Scottsdale** [KLB12]. **Scratchpad**



[JT94]. **screening** [QPWH08]. **Scrimshaw** [Arn93a, Arn93b]. **Scripting** [Fri97b, RB05, BFN<sup>+</sup>09, BH13, Blu08, FhDAF09, Han01, LS99]. **scsh** [Sar02]. **SDN** [AV23]. **SDN-Based** [AV23]. **Search** [AC75, HR02, BYKZ<sup>+</sup>92, Ber00, BK93g, Cal00, Cha91, EF13, FG98, FL99, GN19, GG97, KR94, Lut02, Man86, MM96, NR99a, NR01, Pol01, Rob88, Smi91b, SED14, SOR16, SJNS19, SB09, Sun90a, Sun90b, Tay97, VB23, WWW<sup>+</sup>16, WT89, YDDB15, Zha07, ZGS<sup>+</sup>15, AB09, AVN22, Bar84b, BC13a, BPMA02, BC06, FG95b, FG95a, FG99, Git96, GHK14, HH16, JRV96, KW05, KJS17, KM84, LGZ<sup>+</sup>14, MRR<sup>+</sup>18, MKSiA98, NR02, OSSK16, QQC<sup>+</sup>13a, QQC<sup>+</sup>13b, QLY07, Rai99, SCF<sup>+</sup>17, TYNM86, Tan14, Tho68, WDG<sup>+</sup>14, WT88, YHV<sup>+</sup>15, YBTB23, ZBST14, dKM04, Cox12]. **Search-Based** [VB23]. **Search-Space** [ZGS<sup>+</sup>15]. **Searches** [DNM00, GN01, MM93, MT14, Nel96, Shi96, Fen01a, KS08, KBN09, MW92b, Men89, SMS15, WR15]. **Searching** [BY89, BK93a, BPMA02, BS97, BM77, Bur11, CFG12, CC97, CCL87, CR95c, Dav82, Dav73, EF95, Gon83, HL94, Hor80, HS90, HS91, Knu98, LDI98, Man94, Man97, MNS84, Nav01c, NR03, Nav04a, NR04, PWW<sup>+</sup>11, PW12, Rai92, Reg92, Roo99, Ros95, Smi94, Ste94, TT82, VSP08, ZMSD93, AG86, Apo93b, AEMS14, Ayc15, BYG92, BYG96, BD80, Bar84a, CD96, CEMW91, FGG<sup>+</sup>08, GO80, HKN14, Han93, IA80, KIH15, Mha05, Mus03, Mus05, Owo93, Per94, Ryt80, SNZBY00, WL15a, WM92a]. **Seattle** [ACM74, ACM98]. **Sebastopol** [Ano97a]. **Second** [ACM83, ACM00, Ano12, ACM90b, Dow91, TPT13]. **second-order** [Dow91, TPT13]. **secondary** [BA15, MP05, AVN22]. **Sections** [DCM15]. **Secure** [BEM<sup>+</sup>12, BEM<sup>+</sup>13, EF13, HT14, SBB19, SJNS19, DA18, SCF<sup>+</sup>17]. **Security** [HL10, LN19, MW94, PP06, Rei03, SALP20]. **sed** [Dou91, Bar90]. **seed** [CCI<sup>+</sup>13]. **Seeded** [LPR<sup>+</sup>08]. **Seeds** [Zha07, FCLST07]. **SEFT** [dKM04]. **segmentation** [IHK08]. **Segments** [EIV04]. **Seiki** [SM04]. **Selected** [Cro92a, Moo64, BW91]. **Selection** [Bon07, CMR18, Gie90, LH13b]. **Selections** [CvW18]. **selectivity** [JKNS00, STKD20, TP07a, TP07b]. **Self** [CG87, TJGY22, AGH<sup>+</sup>17, CADA18, JP11]. **Self-attention-driven** [TJGY22]. **self-composition** [AGH<sup>+</sup>17]. **self-interpretation** [JP11]. **Self-Organizing** [CG87]. **self-service** [CADA18]. **SeLINQ** [SHS14]. **Semantic** [CBD<sup>+</sup>23, Gan89b, Har97, II08, Coo86, IIK08, MP09, OA17, SG12, AGP18]. **Semantica** [Har97]. **semantically** [ELF22]. **Semantics** [Dan91, Gud92, MNR<sup>+</sup>23, Pag78, PAG09, BvdM17, Chl08, Mal93, San15]. **Semantics-directed** [Dan91]. **Semi** [KV15, LYT<sup>+</sup>23, TMK<sup>+</sup>02, BGHZ15, Rob79]. **Semi-Extended** [KV15]. **Semi-structured** [TMK<sup>+</sup>02, BGHZ15]. **Semi-Supervised** [LYT<sup>+</sup>23]. **semiring** [AS85]. **Semirings** [GHKL18]. **semistructured** [BFS00]. **Sensemaking** [LLS<sup>+</sup>20]. **Sensitive** [CK02a, SA96, TPT13]. **sensor** [NCV10]. **sensors** [BWG12]. **Sentiment** [THQ19]. **Separated** [Pol13]. **Separating** [LMM17]. **Separation** [Kul11]. **September**



[AAC<sup>+</sup>01, AOV<sup>+</sup>99, Len93, MG94, Win78]. **Seq** [SNB<sup>+</sup>19]. **Sequence** [BLP94, BGM19, BDFW94, Bra90, CCL87, GM02, KPP19, KS99, KK08, LPT12, MGW14, RND97, CLT07, ECSS88, ETV21, GO12, HAI02, MBY91, NT20, SVS97]. **sequenced** [GW92]. **Sequences** [BLP18, BEL17, CvW18, Gus97, Hua94, IMR08, LJH<sup>+</sup>17, MT14, NEL17, DKP11, GGN06, HIEH22, IHEH23, KB22, KR14, LVN87, MZZ10, NR02, Nil90, RLP20, Sel84, SN94, Sid95, Sid00, Sid02, ZKCY07, Lut02]. **Sequencing** [RM06, WGL<sup>+</sup>21, FSL<sup>+</sup>15, KRML09]. **sequestiability** [Gaá04]. **Sequential** [BP63, Brz64a, Brz65, Dur94, GRS99, GPR95a, Liu14, Man86, Moh94, MR13, Moo64, OF61, PM78, RS98, Wei83, Zve80, JM90, MMZ10, TTO<sup>+</sup>22]. **SEQUITUR** [MHM<sup>+</sup>01]. **Serial** [JHU<sup>+</sup>24, WSVS22, GS93b, GS93c, LV86b, LV89]. **Series** [LKL02, MR09b, YBTB23]. **Series-Parallel** [MR09b]. **Server** [GSL17, SWZ01]. **Server-Side** [GSL17]. **service** [CADA18, PM23, ZBST14]. **Services** [KPP19]. **SeSG** [AVN22]. **Set** [HL10, Hig86, Hui92, KF91, CGK08, CP10, KR97, THL<sup>+</sup>20, WC14, dRL95, TJD<sup>+</sup>17]. **SETH** [EMT23]. **Sets** [AGM19, BNV<sup>+</sup>13, EIV04, JN24, Pol13, Prů17, Via02, AK09a, Alb89, CS98, Che96, Cho78, Kin91, LMM17, Mat94, Rot91, Sta89, TZYH14]. **Setup** [SOR16]. **Seventeenth** [ACM89]. **Seventh** [LL08, ACM95c, AAC<sup>+</sup>01]. **SGML** [BK93b, BKW92d, BK93c, BK93d, BK93e, MGH93, MGH97]. **SHA** [KJS17]. **SHA-1** [KJS17]. **shading** [BSM<sup>+</sup>07]. **Shallow** [Cam99]. **Shankar** [Pux97]. **Shape** [BZ98, CTF<sup>+</sup>98, YJ84, DOS93]. **Shapes** [HH93a, CT96, HH93b, HH93c]. **Shared** [TVCM12, VRD01, SW93]. **Shared-Forest** [VRD01]. **sheaf** [Sri93]. **sheaf-theoretic** [Sri93]. **shelf** [MNS07]. **Shell** [IEE01e, IEE01f, RB05, Blu08, Wes97]. **Shells** [Qui02, Qui00]. **Shift** [Fre03, IMP01, K TSA99, CT96, Per94]. **Shift-And** [K TSA99]. **Shift-or** [Fre03, Per94]. **shifting** [WOQ<sup>+</sup>07]. **Short** [Ayc15, BLPL92, BAM<sup>+</sup>24, Han13b, KRS95, KRS97, MR09b, XPZ<sup>+</sup>23, BGFK15a, BGFK15b, Che96, FSL<sup>+</sup>15]. **short-read** [FSL<sup>+</sup>15]. **Shorter** [GH13, HW07, ZZH10]. **Shortest** [AKT20, Ale94, ATX21, Mid98, TY97, GHST17, HTX17, IKX15, TU88, Yam19]. **Shotgun** [KS99]. **shuffle** [Jan85, Jed87, ST19]. **SIAM** [ACM97b]. **Side** [GSL17, Hum99]. **Sided** [CDJM15]. **SIG** [ACM97a]. **SIG-SIGMOD-SIGART** [ACM97a]. **SIGACT** [ACM83, ACM87, ACM90a, ACM92a, ACM92b, ACM93a, ACM94a, ACM94c, ACM95a, ACM95b, ACM98, ACM99a, ACM06, ACM07, KLB12, LL08, Len11]. **SIGACT-SIGMOD** [ACM83]. **SIGACT-SIGMOD-SIGART** [ACM90a, ACM92b, ACM94c, ACM95b]. **SIGACT-SIGPLAN** [ACM87]. **SIGAPP** [DGBH93]. **SIGART** [ACM90a, ACM92b, ACM94c, ACM95b, ACM97a, ACM98, ACM99a, ACM06, ACM07, KLB12, LL08, Len11]. **SigMatch** [KTP10]. **SIGMOD** [ACM83, ACM90a, ACM92b, ACM94c, ACM95b, ACM97a, ACM98, ACM99a, ACM06, ACM07, FMA02, HF13, KLB12, LL08, Len11, SW94, Sto92, HF13]. **SIGMOD-SIGACT-SIGART**



[ACM99a, ACM06, ACM07, KLB12, LL08, Len11]. **SIGMOD/PODS** [HF13]. **SIGMOD/PODS'13** [HF13]. **Sign** [BTTF02]. **Sign-and-Encrypt** [BTTF02]. **signal** [Nak14, NCV10]. **signature** [QWX<sup>+</sup>13, TJD<sup>+</sup>17]. **Signatures** [OWP16, TT82, CEMW91, WXZY12]. **Significant** [PRU11]. **SIGPLAN** [ACM87, ACM92a, ACM93a, ACM94a, ACM95a]. **SIGPLAN-SIGACT** [ACM92a, ACM93a, ACM94a, ACM95a]. **SIMD** [CFKT17, FPT22, JA17, JXA20]. **Similar** [BEL17, IK83, NEL17, HKN14]. **Similar-String** [IK83]. **Similarity** [CM94, MU02, AK09a, BSY00, IIK08, II08, JLFL14, QWX<sup>+</sup>13, TP07a, TP07b, WDG<sup>+</sup>14, WLF14, ZXL<sup>+</sup>13]. **Simon** [Han93, KKH24]. **Simple** [AR00, Bra94, BGM13, Cox07, Gaw12, GL89, IST05, LOZ<sup>+</sup>24, MNS07, Mut00, NR03, Ris16, BBG13, CLS95, Eck89, Fla88, FHP92, IKX15, II86, NBY99c, Pet07]. **Simpler** [CH02, KC21]. **Simplicity** [Wol90, Edw07]. **Simplified** [FYJ<sup>+</sup>17]. **Simplifying** [KR22].

**Simulation** [AYS<sup>+</sup>24, BÖ13, Co072, FYJ<sup>+</sup>17, KL02, FS22, KCPC13, MCF<sup>+</sup>14, Pet94]. **Simulation-Based** [KL02]. **Simulations** [Gal76b]. **Simultaneous** [PS93a]. **Single** [AAB<sup>+</sup>86, Per94, SK17, WHZ<sup>+</sup>17, EASK14, FN04, NHN<sup>+</sup>20]. **single-arm-gapped** [NHN<sup>+</sup>20]. **Single-board** [AAB<sup>+</sup>86]. **Single-machine** [WHZ<sup>+</sup>17]. **Single-node** [SK17]. **singleton** [AFI98]. **singly** [BAP06]. **singularity** [WYA<sup>+</sup>07]. **Situ** [GMAS22]. **Sixteenth** [ACM97a, ACM84]. **Sixth** [ACM07, ACM74, ACM94d]. **Size** [BGG12, CF85, CKW09, Hui92, Kül10, BYBDS09, GH09, Lif03, PPTT15]. **Sized** [KRR17]. **sketch** [LLS<sup>+</sup>20]. **sketching** [SLTB<sup>+</sup>06]. **skills** [DV21]. **skip** [Hua98]. **Skolem** [Kar82]. **Sleeping** [ABF96]. **sliced** [KRL87]. **Slicing** [DSv94]. **Sliding** [FL12b]. **Small** [CLP98, CGPR95, HSW97, HSW01, MPN<sup>+</sup>14, NTS93, STK10, Sca11]. **Small-Ruleset** [Sca11]. **Smaller** [GPR95a, GLRÁ11]. **Smallest** [Man75]. **smart** [JR15a]. **Smith** [Sal01]. **smoothed** [AK12]. **Smoothness** [ZCS<sup>+</sup>12]. **Smurf** [CADA18]. **SNOBOL** [Bro77]. **SNOBOL4** [Duf82, Gim73, Gri85, Liu86, Sch81, Sil77, Gri83, Pag78]. **SNOBOL4/Icon** [Gri85]. **Snowbird** [SC93, SC95, SC96, SC98, SC99, SC01, SC02, SC03, SC04, SM09, SM10, SM11]. **Snuba** [VR18]. **Social** [MSP<sup>+</sup>17, VD17]. **Society** [CVP86, NEH90]. **SODA** [BJK<sup>+</sup>12]. **Soft** [CKC07, How97, How96]. **Software** [Bee81, CS18, FO76, IEE94a, IEE95b, KP99c, KPA10, Lut02, MG94, PAMP12, Cox19, Gre88, Joh01, Jon13, KOI94, MP88, PA10, San09, Spe85a, Spe85b, Bol02]. **Solaris** [Rob99a, Rob99b]. **Solution** [Hea71, B<sup>+</sup>05, BLPL92, Goo05, Sch81, YCJK08]. **Solutions** [Gon02, Sto96, AI18, BBHK14, DL03, Sta89, BGG<sup>+</sup>94]. **solved** [SSLL21]. **solver** [KGA<sup>+</sup>12]. **Solvers** [ZGS<sup>+</sup>15]. **Solving** [BK93g, CFLH<sup>+</sup>22, CCH<sup>+</sup>23, FR17, SED14, Tar81a, Tak96a]. **Some** [Fen01b, Gal76b, Liu86, MW92b, Shi78, WCM<sup>+</sup>94b, Wol90, San15, WCM<sup>+</sup>94a]. **Sorted** [Wal88, Gie90, Kes91]. **Sorting** [BS97, CMR18, Chr96, JRV96, Knu98, FCFM00]. **sorting-complexity** [FCFM00]. **Sortledton** [FMG22, FMG23]. **Sound** [PM23]. **Source**



[AWD<sup>+</sup>18, Bol02, EZYA23, MFMA17, SED14, AG06, Joh94b]. **Source-Level** [MFMA17]. **sources** [ST96a]. **Sourcing** [CDL<sup>+</sup>15]. **South** [ACM93a]. **Space** [BC13b, Ben94, CF06, CZ01, Cha94, CF85, CDEK95, CJPS13, CR95c, CGPR95, GS80, GHST17, GPR95a, GP01, GP03, KC87, LT09, McC76, SY23, SWY75, ZGS<sup>+</sup>15, AK08, BCWG09, BGM13, CD96, CGR99, GS81b, GS83, GPR95b, GO12, IKX15, KR89, LMRT14, PLT14, Rob79, SW12, SNM<sup>+</sup>13, TJD<sup>+</sup>17]. **Space-Economical** [McC76]. **Space-Efficient** [BC13b, SY23]. **space-optimal** [KR89]. **Space-Time** [CF85, GHST17]. **Spaced** [Zha07, FCLST07, NCV10]. **Spafford** [Hig95]. **Spain** [DMVT13, LV06, NH11]. **Spam** [ZGY<sup>+</sup>16, KEG<sup>+</sup>08]. **Spanners** [ABMN20, FKRv13, FKRv15, FRU<sup>+</sup>20]. **SPARQL** [LM12, LM13, PAG09]. **Sparse** [WSW16, HSL10, Quo92]. **spatial** [CS98, CFCK22, FLC<sup>+</sup>19]. **spatio** [PMD01]. **spatio-temporal** [PMD01]. **Speaker** [PG90]. **SPEC** [KL02]. **Special** [ALLL98a, AK09b, AGS93a, AGS93b, AGS93d, AGS93c, Ano17, DT87, ALLL98b, Cro92a]. **specialisation** [Jon07]. **specialization** [ADM<sup>+</sup>13]. **specialized** [GASÁ<sup>+</sup>13]. **Specific** [CDC<sup>+</sup>23, MFMA15, MFMA17, MGW14, MSS<sup>+</sup>19, TMV<sup>+</sup>01, SHvR<sup>+</sup>16, WKR09]. **Specification** [BG91a, Lut02, Sou99, SMT<sup>+</sup>86, MRA<sup>+</sup>17]. **Specifications** [NCJF18, JM90]. **Specified** [ZMSD93]. **specify** [CFM00]. **Specifying** [Lus94, Lut02]. **Spectra** [BM08, SHCY93]. **spectrum** [ZHWW12]. **Speculation** [JA17, JXA20]. **Speculative** [NYuR15, RP95]. **Speech** [JLH18, Kul11, PG90, RJK79, AAB<sup>+</sup>86]. **Speed** [BYHT18, FL12b, JGZL12, JN24, LK90, PW12, VCS<sup>+</sup>12, ZL18, Git96, KM84, LK88, PLT14, TLL07, XMLC11, ZYX<sup>+</sup>12]. **Speed-Ups** [JN24]. **Speeding** [CCG<sup>+</sup>94, Deo06, SKF<sup>+</sup>00, ACF05]. **spelling** [AB89, BSY00, TIAY90]. **spelling-correction** [BSY00]. **SPIRIT** [GRS99]. **Split** [KKK11, TBS06]. **Splitting** [RTT02b]. **Sprachen** [HU92]. **Spreadsheet** [GHS12, SG16]. **spreadsheets** [BGHZ15]. **Spring** [Ano87]. **Springer** [Neu10]. **Springs** [Kap92]. **SQL** [AV23, BJK<sup>+</sup>12, FPD08]. **Square** [ACM83, CIK98]. **Squares** [CR95c, Rao94, IMS97]. **Squib** [SM99]. **SSD** [PYY19]. **St** [IEE90, TSM88]. **stability** [Sid99]. **Stabilization** [CCH<sup>+</sup>23]. **stable** [KT90]. **Stack** [ZZ12]. **Stack-based** [ZZ12]. **STACS** [FJ92]. **stage** [JGMP22, YCJK08]. **staged** [PSK17]. **Standard** [IEE01a, IEE01g, IEE01e, IEE01c, IEE01b, IEE01h, IEE01f, IEE01d, XLC19, BR09]. **STAP** [dLBHC22]. **Star** [BMMR19, HY90, Tho81, YH91, YH92, tC09]. **star-free** [tC09]. **star-height-problem** [Tho81]. **starting** [Mid98]. **State** [Bow87, BDM19, CZOdH17, CM58, Gol93, Han13b, JA17, KLH16, MY60, NRS18, Sut21, WDG<sup>+</sup>14, Yun12, vNG01, Gaá04, HW07, Hur84, JXA20, MMS14, VHL<sup>+</sup>12, Yod91]. **State-of-the-art** [WDG<sup>+</sup>14]. **Stateful** [VKPI17]. **Statements** [JP73]. **States** [DGBH93, LK06]. **Static** [Cha02b, HV93, JGZL12, WHZ<sup>+</sup>17, ZWH<sup>+</sup>21, ALLS07, Aoe89, FhDAF09, GLS07, HS08, JU91, LYWL08, MP09, PIR17, PM23]. **Stationary** [KS96, ST96a]. **Statistical** [BGJ01, GS93a, GWvG10, THQ19]. **Statistics** [Liu14, Jan23, Maa06, ZZJC20]. **Std**



[IEE01a, IEE01g, IEE01e, IEE01c, IEE01b, IEE01h, IEE01f, IEE01d]. **Steady** [Sut21]. **Steady-State** [Sut21]. **stem** [YHV<sup>+</sup>15]. **step** [BD98]. **Stereovision** [PDL98]. **Steven** [Ano12]. **Stieltjes** [KC11]. **Still** [Gon02, LS06]. **STOC** [ACM08]. **Stochastic** [SBHM94, YPG21]. **Stone** [D<sup>+</sup>23]. **Stopper** [RTT02b, RTT02a]. **Storage** [BK75, JLK<sup>+</sup>20, PYY19, All82, CDC96, GS81a, SCF<sup>+</sup>17]. **Strategic** [Vis99]. **Strategies** [CJ93, MM02, AVN22, AG86, HBRV10, MM03, MLM<sup>+</sup>08, PSK08, PCS99, iA94]. **Strategy** [Bon07, EMC96, AEH94, LLL13]. **Stream** [PP06, Nil90]. **Streamed** [DCM15]. **Streaming** [BG14, GKP19, PP09, BGFK15a, BGFK15b, GHR<sup>+</sup>16, MRA<sup>+</sup>17]. **StreamQRE** [MRA<sup>+</sup>17]. **Streams** [CJPS12, DLG12, Har02, CLG09, CGM10, San15, SGCW14, TSI13]. **strength** [Moo12]. **strict** [HJW<sup>+</sup>92]. **Stride** [PW12, VWR11, NYuR15]. **stride-** [NYuR15]. **striding** [ARS16]. **String** [AOK02, Abr87, AC75, Aku94, AR00, ACR01, ADR15, AYS84, iA94, ACD01, BST<sup>+</sup>03, BY89, BYP92, BYN96, BY96a, BYN97, BYN99, BCP02, Bar84b, Bee13, BK93a, BEL17, BH02, BH85, BGP<sup>+</sup>22, Ber00, BLLP90, BL94, BM00, BGVW12, BGS23, BM77, BG92, Bre93, BCT94, BG95, BCT98, BGG12, BG14, BK93g, BZ98, Bur84, CZOdH17, CF06, CFP19, Car77, CF88, CK02a, CLS<sup>+</sup>10, CL92, Cha93b, CM94, CL94, CCH09, Cha91, CL97, CLP98, CN02, CTF<sup>+</sup>98, CHL14, CCH<sup>+</sup>23, CH04, Chu95, CW84, Col94a, CHPZ95, CH97a, CH02, CP91, Cro92b, CCG<sup>+</sup>94, CR95c, CGG<sup>+</sup>97, CIK98, CIM<sup>+</sup>02, Dav82, Dav73, DW17, DNM00, EMC96, EMTG23, EZYA23, FT95, FT98, FL12a, FL12b, FMP20, FR17, FG98, FL99, FV16, FPT22, Fra20, FU98, Fre02]. **String** [FT04, Fre06, Fre78, Gal76b, Gal79, GS80, Gal81, GP90, GG91, GG92, Gal95, GPR95a, GHW05, GZ94, Gon02, GFG11, GV05, GMMN12, GH82, HD80, HL94, HH93a, Hoa77, Hui92, HS90, HS91, HN02, HN05, IMP01, IK83, JL96, JLFL14, JN24, JTu96, Kha16, KST94, KKK11, KS11b, KS12b, KTY<sup>+</sup>18, KMM15, LSW08, LP13, Le 91, Lec95, Lec98, Les94, LY86, LLLL08, LLLC17, LD10, Liu86, Liu88, LDI98, LCL06, LLW<sup>+</sup>15, LS94, Man75, MM93, Mel95, Mey85, MM02, MIH17, Moh97, MNS84, ML96a, ML96b, Mun07, MM96, MR92, Mut97, Mye98, Nao91, NR98, NBY99b, Nav21b, Nav21a, Nel96, NR15, NEL17, OM88, PAMP12, PLL08, PWW<sup>+</sup>11, PW12, PK95, PP94, Pet07, Phi94, Rai92, Rao94, RTT02a, RTT02b, Reg92, RKH02, RPE81, Ros95, RFD23, RNOM09, Sad96, SV94]. **String** [STK10, SD95, Shi96, Shi92, Shi97, Sim94, Sli78, Sli83, Smi94, Spi99b, Ste94, SJNS19, ST95, ST96b, ST96c, ST04, Sut21, TS05, TU93, TP97, TT82, TLC15, TVCM12, UW93, VMML15, VSP08, WT89, Wri94, YP13, YDW18, ZS17, ZS13, ZGS<sup>+</sup>15, ZMWL20, de 82, van14a, van14b, Aku95, ASM17, ACF05, AVN22, ALP04, AAK<sup>+</sup>09, AEK<sup>+</sup>11, Aoe89, AG86, AEMS14, AGW13, Ayc15, BFKL13, BYF96, BYP96, BD80, BSY00, Bak78, Bar84a, BR09, BKBB<sup>+</sup>14, BLPL92, BFG09, BFP<sup>+</sup>08, BG90, BG91b, BCT93, Bre94b, Bre95, Bre96, BGM13, Bur82, BEL04, CADA18, CCF13, CL90, Cha93a, CDDM05, CW13, CW18a, CW18b, CN21, CFLH<sup>+</sup>22, CR87, CH92, CGG90,



CD96, CM07, CGR99, Dai09, DR06, Deo06, Der95, DC94, DNR06, ĎHPT10, EMT23, FCLST07, FL13, FS22, Fen01a, FG95a]. **string** [FMdB99, FG99, FGG<sup>+</sup>08, FBMA05, Fre03, FN04, FM06, Gal75, Gal76a, GS81a, GS81b, GS83, Gal84, GG86, GG87, Gal92, GPR95b, GGL94, Git96, GBY90a, GBY90b, GF08, GL89, GV00, GO80, GHK14, Han93, HY92, HFS05, HR01, HR03, HH93b, HH93c, HOK18a, HOK18b, HM00, HLS<sup>+</sup>11, HK77, HHLS06, HFN05, Hyy08, IP96, IMS97, Ind98, IS90, II08, IA80, JL93, Joh95, JU91, KB22, KST92, Kim99, KWL07, KC21, KNT11, KS96, KST16, KPA10, LV86a, LV86b, LVN87, LV88, LV89, Lar99, Lec07, Liu81, LHCK04, LT97, LLL13, Mae90, MNU05, MBY91, ME97, Men89, Mha05, MM03, MM07, Mis03, MS95, Mus03, Mus05, Mye99, Nak14, NHN<sup>+</sup>20, NBY99c, NR00, NKT<sup>+</sup>01, Nav01a, NF04, NT05, NC06, Neb06, NC92, PLL10, PA10, PKK18, RUG97, Ryt80]. **string** [RLP20, Sad93, SY23, STK06, Sal12, SW90, SZ05, SMS15, ST96a, STKD20, SG12, SR16, Spi99a, SV87, TYNM86, Tak96b, TBS06, THG17, TPT13, Ukk92, Ukk93, VRC24, VLP17, Vin77a, Vin77b, WDG<sup>+</sup>14, WL15a, WLF14, WT88, XMLC11, Yao79, YT03, ZZJC20, dB93]. **String-Based** [EZYA23]. **String-Manipulating** [VMML15]. **String-Matching** [BG14, CCG<sup>+</sup>94, GS80, Gal95, JL96, Kha16, Les94, LY86, Moh97, Mut97, Sli78, Sli83, CH04, Cro92b, BR09, CCF13, CW13, CR87, CGR99, DR06, Gal75, Gal76a, GS81a, Gal92, GPR95b, HY92, HR01, HR03, JL93, KST92, LHCK04, PLL10, TBS06, Ukk92, Ukk93, dB93]. **string-pattern** [Kim99]. **string-searching** [Mha05, Ryt80]. **string-similarity** [BSY00]. **String-to-Dictionary** [KS11b, KS12b]. **string-to-string** [Mae90]. **stringdist** [van14a, van14b]. **Stringlish** [Ayc15]. **Strings** [Ale94, BS97, BCFL12, Chu95, Col94b, FT98, Gaw13, GNU94, GL01, Gus97, HUN<sup>+</sup>19, HT17, Hor80, Huc21, ISNH94, KRS95, KRS97, KAN<sup>+</sup>17, KMP77, LT03, Lut02, Shi96, SW09, Ver92, YQW<sup>+</sup>16, Zha17, ADR03, ADR06, BLSS03, BFK<sup>+</sup>03, BC95, CD89, CR91, DGG<sup>+</sup>19, EH88, ETV88, FT95, GO12, JRV96, Jan23, KGA<sup>+</sup>12, KMP94, KR97, LMM17, LS10, LMS21, McI04, Mei15, NR02]. **Strong** [BMMR19, GGM12, LS06, MCF<sup>+</sup>14, WD99, AW89]. **Strongly** [Dur94]. **Strother** [Tal81]. **Structural** [BGJ01, KWLL08, Pik06, Shi00, Shi04, BFS00]. **Structure** [CGR02, FMG23, Gia93, Les95, Pol13, Sli78, TMV<sup>+</sup>01, AP90, CGR03, CD96, FG95b, FG99, FLSS93a, FLSS93b, FMG22, KWL07, MP05]. **Structured** [BLLW12, CMNP17, KM94, KS99, BGHZ15, Fla88, TMK<sup>+</sup>02]. **Structures** [Cha01, Cha02a, FBY92, GHLW15, GG97, Gor00, GKW<sup>+</sup>10, LSW08, Lar99, Lec98, Les79, APTS13, ABH<sup>+</sup>14, BA15, GMC02, HN90, HTK<sup>+</sup>21]. **stuck** [AEK<sup>+</sup>11]. **Students** [DKA<sup>+</sup>15]. **Studien** [SM74]. **Studies** [JM85, SM56, SM74, SS93a, AVN22]. **Study** [CSY03, FTJ95, JM85, KP96a, MM02, MSZ17, OP16, PV91, Sca11, BG91a, Fen01b, KP96b, PSK08, Pep91, SKS96]. **Studying** [MGH93]. **Sturmian** [BR09]. **Style** [Cop91, BGWXP22, WW03]. **sub** [EMT23, VRC24]. **sub-quadratic** [EMT23]. **sub-string** [VRC24]. **subexpressions** [Fat15]. **Subgraph**



[QZC17, XZL<sup>+</sup>19, EASK14, KNT15, KSH<sup>+</sup>15, LQL<sup>+</sup>16, SWW<sup>+</sup>12].  
**Subgraphs** [MSS<sup>+</sup>19, PSP<sup>+</sup>18]. **subject** [ETV88, Sch81]. **subkeys** [BD80].  
**Sublinear** [CL94, FG98, CL90, CWZ10, CGR99, FG95a, WZ96].  
**sublinearity** [Sch88a]. **Sublist** [Jay92]. **Submatch**  
[HHM<sup>+</sup>13, BT21, Lau01]. **Submatching** [SvS14]. **Suboptimal**  
[Cha94, LS94]. **Subquadratic** [WMM95]. **subscribe** [ZCT14].  
**Subsequence** [BGM19, ETV21, HIRS17, TTO<sup>+</sup>22, ZKA12]. **Subsequences**  
[IF94]. **Subset** [CH03, Kin92, Pag78, AB09, CH97b, HW09]. **subshifts**  
[Rou21]. **Substitution** [For02, JSC83, Sch81]. **substitutions** [LVN87, Pie08].  
**Substring** [AKT20, ACR20, HR02, BYKZ<sup>+</sup>92, Bur11, CIL<sup>+</sup>03, F<sup>+</sup>23, Har71,  
JN24, Joh94a, KO83, KW05, KRS19a, KRS19b, KRS23, MRR<sup>+</sup>18, Rob88,  
RMK<sup>+</sup>14, Smi91b, SOR16, Sun90a, Sun90b, Apo93b, BGK<sup>+</sup>16, BSTU08,  
ETV21, FG95b, Gra15, HKN14, HTX17, IKX15, JKNS00, Maa06, MAI<sup>+</sup>16,  
MKSIA98, Rai99, Rou21, Sto02, TTO<sup>+</sup>22, Yam19].  
**substring-preprocessing** [Sto02]. **Substrings**  
[ATX21, Cob94, Fra20, Boo80, FGKU15, GHST17, LO94]. **subtext** [BD80].  
**subtree** [Gro91a, Gro91b, Mäk89]. **Subtype** [WZJH12]. **subtypes** [JM93].  
**Succinctness** [Gel10, GN12]. **sufficient** [KT90, MR09a]. **Suffix**  
[AOK02, ABM08, DNM00, FL12a, GV05, GLS92, Kid09, LSW08, MM93,  
McC76, NR98, Nel96, Neu10, OR12, Shi96, Shi00, Shi04, UW93, ACFC<sup>+</sup>16,  
BH96, DK13, FCFM00, FS22, GV00, HHLS06, Kos94, NR00, TTHP05, Ukk93].  
**Suffix-Tree** [DNM00]. **suffixes** [BGK<sup>+</sup>16]. **Suitable** [CCL87]. **Summary**  
[GH15]. **Sums** [BM00]. **Sup** [MP09]. **Sup-interpretations** [MP09]. **Super**  
[Fre02, KM95b, Fre03]. **Super-Alphabets** [Fre02, Fre03]. **Super-Pattern**  
[KM95b]. **Supercomputers** [RND97]. **Supercomputing** [IEE88].  
**superimposed** [Ind97]. **Superiority** [Zha07]. **superoptimizers** [BA06].  
**superprimitivity** [Bre94b]. **Supersequences** [IF94]. **Superstrings**  
[Ale94, TY97, Che96, Mid98, TU88]. **Supervised** [LYT<sup>+</sup>23]. **supervision**  
[VR18]. **supplement** [Ruc15]. **Support**  
[GSL17, CL09, GZ10a, Kau92, KAT07, Rob92, ZBST14]. **Supporting**  
[SOR16, CMW87]. **supports** [Nil90, WR15]. **surface** [TCKK90]. **Survey**  
[AKT20, BYNTK21, Brz62, Kni89, HIEH22, LH13b]. **Surveyor**  
[Fra83, GHF83a, GHF83b, WNL<sup>+</sup>83]. **Surviving** [Cox19]. **SVR4**  
[Rob99a, Rob99b]. **Swap** [AEP06]. **Swaps**  
[ALLL98a, AAL<sup>+</sup>00, CCFG12, AAL<sup>+</sup>97a, ALLL98b, Mei15]. **SWAR** [CL09].  
**sweep** [JHU<sup>+</sup>24]. **Switches** [WZL<sup>+</sup>23, LLL<sup>+</sup>24]. **Switching** [Hoa77].  
**symbol** [Rai99]. **Symbolic** [ACM94b, Bro93, Cha86, GVD15, Har79, Lev95,  
Ng79, VHL<sup>+</sup>12, WN90, Fat15, Nic03, NA90, YBTB23, Ng79, NEH90].  
**Symmetric** [Gil70, SS93a]. **Symmetries** [Hig86]. **symmetry** [Mar89].  
**Symposium** [ACM69, ACM74, ACM76, ACM81, ACM83, ACM84, ACM86,  
ACM87, ACM90a, ACM90b, ACM91, ACM92a, ACM92b, ACM92d, ACM93a,  
ACM93b, ACM94a, ACM94b, ACM94c, ACM94d, ACM95a, ACM95b,  
ACM95c, ACM97b, ACM97a, ACM97c, ACM98, ACM99a, ACM99b, ACM00,  
ACM06, ACM07, ACM08, AP10, AH97, AT02, Bro93, Cha86, DGBH93,



FC98, FL08, FJ92, GM11, HM96, HF13, Hwa85, IEE89, IEE90, IEE92, IEE93, IEE95a, IEE97, IEE98, IEE09, KS12a, KU09, Len93, LL08, Lev95, LV06, MZ07, Ng79, WN90, Win78, AL01, Apo92, Apo93a, ACP05, BYCC03, CG94b, GU95, GS00, KLB12, Len11, PC99, SMD04]. **Symsac** [Cha86]. **synchronization** [JM90]. **Synchronized** [PIT<sup>+</sup>03, XH23]. **Synchronizing** [JN24]. **synchronous** [Pie95]. **Synonyms** [LLW<sup>+</sup>15]. **Syntactic** [KKSL01, TB00, Wol86]. **Syntax** [BLS<sup>+</sup>94, XLC19, AG06, Chl08, Pie08, ZGE85, Zei08]. **Synthesis** [AI18, BDD<sup>+</sup>14, CBD<sup>+</sup>23, CDL<sup>+</sup>15, BK86, Lei81, SW12, WKR09, ZJL14]. **synthesized** [Kod79]. **Synthesizing** [LSO17, PJP<sup>+</sup>18, SDA17]. **System** [BM00, CFS<sup>+</sup>89, DMWW77, Har79, IEE01a, IEE01g, IEE01e, IEE01c, IEE01b, IEE01h, IEE01f, IEE01d, KSWC93, KMT<sup>+</sup>01, KKSL01, MM02, NCJF18, SF01, Som82, WHZ<sup>+</sup>17, Wol86, ZJP<sup>+</sup>18, AAB<sup>+</sup>86, BAC12, BG91a, BH07, GPTV93, JGMP22, KAT07, KMS<sup>+</sup>03, KJS17, KLR<sup>+</sup>08, KPP21, LHCK04, MI07, Rus92, TIAY90, WCW82]. **Systematic** [KK95, NAR08]. **Systemizing** [ZWH<sup>+</sup>21]. **Systems** [ACM83, ACM90a, ACM92b, ACM94c, ACM95b, ACM97a, ACM98, ACM99a, ACM06, ACM07, Ano68, Dur94, FYJ<sup>+</sup>17, GHW05, HF13, IST05, JM85, KKK11, Kor83, LHMH91, LY17, LLS<sup>+</sup>20, LL08, LZ96, Lut02, MUHT96, Mor83, PSP<sup>+</sup>18, Sar02, WHZ<sup>+</sup>17, ZWH<sup>+</sup>21, ADM<sup>+</sup>13, CDC96, CFM00, DL03, Fat15, JO97, KKM<sup>+</sup>85, KLL23, KN00, KKP92, KEG<sup>+</sup>08, KLB12, KR95, LLC03, Len11, Lus94, SD91a, SD91b, WSS94]. **SystemT** [KLR<sup>+</sup>08]. **systolic** [PS88].

**t** [KPP21]. **table** [GHS82]. **tables** [EF95, Hua98, Mus05, Quo92, SDA17]. **tagged** [Lau00]. **Tagging** [JLH18, Kul11, KEG<sup>+</sup>08]. **Take** [Roo99]. **Tale** [Hum88a, VLP17]. **talk** [Rémi17]. **Taming** [CGZ<sup>+</sup>13, Hab04, KSH<sup>+</sup>15]. **tapes** [Cho78]. **target** [QLY07]. **targeting** [All89]. **Tarragona** [NH11]. **TASH** [Wes97]. **Task** [YD95]. **TAWK** [Eck89]. **taxonomy** [CWZ10, WZ96]. **TBNF** [Man06]. **TCAM** [MPN<sup>+</sup>14, PD12, Yun12]. **TCAM-Based** [Yun12, PD12]. **TCAMs** [dLBHC22]. **Tcl** [Wes97]. **Teaching** [GOMSJVGP08, Far19]. **Technical** [BYKZ<sup>+</sup>92, Spi99b]. **Technique** [Vis91, ZT89, Bak78, CK02b, Fla88, IHEH23, PC02, Vis90]. **Techniques** [DCM15, GS93a, GL86, HH93a, Kuk92, Mu 95, MuT95, NR04, Tho68, Ano97a, DOS93, EF95, Fri97a, HH93b, HH93c, MSRR00, Mun95, PPPdG20]. **technologies** [OKT92]. **Technology** [IEE01a, IEE01g, IEE01e, IEE01c, IEE01b, IEE01h, IEE01f, IEE01d, THG17]. **Template** [MME14, SN92, Co089, FLSS93a, FLSS93b, SS94, SA77]. **Templates** [HL97, ZGY<sup>+</sup>16]. **temporal** [PMD01]. **tenant** [SDA17]. **TENCON** [Bao93]. **Tennessee** [ACM90a]. **Tenth** [IEE94b]. **ter** [Lia84]. **Term** [Dur94, Lav91, Pet92, PS93b, KN00, KM84]. **Termination** [GHW05, JR15b, AP13]. **Terms** [Cha02b, ZMSD93]. **Ternary** [KAN<sup>+</sup>17]. **Tessellation** [Prü17, TIT83]. **Test** [Har71, Liu14, AG84, PPPdG20, RP95, SMS15]. **testable** [Mei08]. **Testing**



[Bre94b, HHW<sup>+</sup>99, Hei01, Lut02, ZMWL20, GM17, Han92, KKM<sup>+</sup>85, MF96].  
**tests** [Thi93]. **Texas** [ACM97c, NEH90, IEE94b, IEE95b]. **Text**  
 [BBH<sup>+</sup>87, CC97, Dav82, DW17, Fal85, FMP20, Gib21, GN01, Gon83, Gor00,  
 GV05, GKW<sup>+</sup>10, HGT24, How97, KR92, KTSA99, Kuk92, K VX12, Man94,  
 Man97, Nao91, NR99b, Nav01c, Pik87, Pik00, Rei77, Ritxx, STSA99,  
 SKF<sup>+</sup>00, TMK<sup>+</sup>02, TT82, TJGY22, XPZ<sup>+</sup>23, ZA87, AMB<sup>+</sup>02, AVN22,  
 ALLS07, BYG92, BYG96, BCD98, BGFK15a, BGFK15b, BC13a, BPMA02,  
 BPPR20, BFNP10, CL09, CHLS07, CR95a, CM95, CEMW91, CL96, GGF13,  
 Gre88, GV00, How96, Ier09, II08, KR89, KTS<sup>+</sup>98, KWLL08, KM84, MW92b,  
 Mus03, Mus05, NKT<sup>+</sup>01, NT05, NM07, OKT92, RH81, San95, SKS96,  
 SNZBY00, WM92a, YT03, dKM04]. **Text-Based** [GKW<sup>+</sup>10].  
**text-compression** [CL96]. **Texts** [BKLP97, BKL<sup>+</sup>02, BG95, CFG12, CL95,  
 FT04, Lut02, ML96a, Rao95, TMK<sup>+</sup>02, BFKL13, BSY00, BFG09, CD96,  
 DS04, JU91, KS01, KBN09, NR02, Sen00]. **Textual**  
 [BH85, Haz01, Joh94b, ZBST14]. **Texture** [VB98]. **tf** [TP07a, TP07b].  
**tf-idf** [TP07a, TP07b]. **Their**  
 [Brz62, CJM12, Gim73, HN05, MHKR12, OF61, RS59, BRL13, BdFED<sup>+</sup>20,  
 CX20, GR92, KSVJ15, Lau00, NEH90, Pel87]. **Theorem**  
 [GL19, Kau92, KP96a, Sha88a, BKM95, HA90, KP96b, Kun95, Moo12, Pie95,  
 Rus85, WZU14]. **theoretic** [Pie08, Sri93]. **Theoretical**  
 [CL92, FJ92, MAC14, Med23, BGWXP22]. **Theorie** [SM74]. **Theory**  
 [ACM69, ACM74, ACM76, ACM81, ACM84, ACM86, ACM90b, ACM91,  
 ACM92d, ACM93b, ACM94d, ACM95c, ACM97c, ACM99b, ACM00, ACM08,  
 AU72, AU73, DMVT13, Gim73, HU79, HU92, HMU01, HMU07, Lut02, Pet92,  
 ŠW98, AFI98, Bak93, CD18, CS11b, Far19, Han02, HR00, SBR<sup>+</sup>07, VVV04].  
**Thinning** [Web95]. **third** [ACM91, AGS93e, Apo92]. **Thirteenth**  
 [ACM81, ACM94c]. **thirtieth** [Len11]. **Thirty** [ACM00, ACM99b].  
**thirty-first** [ACM99b]. **Thorn** [BFN<sup>+</sup>09]. **thread** [San09]. **threaded**  
 [MAC14]. **Threading** [OR12]. **Three**  
 [Cha02a, GPP04, GGL94, HEWK03, KR94, Les79, Les95, de 82, AK08].  
**Three-Dimensional** [GPP04, HEWK03, Les79, Les95]. **Threesomes**  
 [GP18]. **threshold** [BSTU08]. **thresholds** [AD11, ZA17]. **Throughput**  
 [BTC06, LPT12, TS05, LH13a, LMMN07]. **Thue** [KKM<sup>+</sup>85]. **tier** [KLL23].  
**Tietze** [Rob88]. **TIG** [Mu 95, MuT95, Mun95]. **Tight**  
 [BCT93, Col90, Col94a, SV87]. **Tighter** [CH92, CHPZ95, CH97a]. **Time**  
 [BC13b, BGG12, BG14, Bur11, CZ01, CF85, CGS17, CH03, Co072, CR95b,  
 CR95c, CGPR95, CGG<sup>+</sup>97, CGH<sup>+</sup>98, FG98, Gal79, Gal81, GS81b, GS83,  
 Gal95, GP01, GP03, HM98, ISNH94, KU99, LKL02, Man75, MHT09, PRU11,  
 Sli78, Sli83, Sto96, VSP08, WBA83, BYR92, BG90, BGM13, CL90, CNS18,  
 CH97b, CD96, CGR99, EH88, EMT23, FLM<sup>+</sup>10, FG95a, Gal75, Gal76a,  
 GS81a, Gal92, GHST17, GPR95b, GF08, GFG11, GMS12, HKN14, IKX15,  
 IP96, Kos94, KRL87, KKR<sup>+</sup>13, Liu81, NNSP22, RP95, Rep98, TJD<sup>+</sup>17,  
 TSI13, YBTB23]. **Time-** [BC13b]. **time-efficient** [TJD<sup>+</sup>17]. **time-optimal**  
 [IKX15]. **time-sliced** [KRL87]. **Time-Space** [CR95c, GPR95b].



**Time-space-optimal** [GS81b, GS83]. **Time/Space** [GP01, GP03]. **Timed** [ACM02, NCJF18, UFA<sup>+</sup>24, WAH23]. **times** [Mid98]. **timing** [AGH<sup>+</sup>17].  
**Timothy** [Neu10]. **tion** [Lia84]. **title** [LGZ<sup>+</sup>14]. **titles** [LGZ<sup>+</sup>14]. **TLA** [Lut02, Lut02]. **TLex** [Kea91b]. **TM** [BGFK15a, BGFK15b]. **token** [WLF14]. **Tokenization** [Kul11, Sca11, Rep98]. **Tokyo** [IEE94a, WN90].  
**tolerant** [BG91a, WLF14, XQW<sup>+</sup>13]. **Tool** [MFMA15, MFMA17, Pol01, SvS14, WM92b, dLBHC22, All89, Ier09, KOI94, Nav01b, NT05, SCF<sup>+</sup>17].  
**Toolkit** [Lut02, VVV04]. **Tools** [Lut02, PPA10, CGM06, Fri97a, Han02, Ano97a]. **Top** [GN19, QQC<sup>+</sup>13a, QQC<sup>+</sup>13b, Sca11, CLZ<sup>+</sup>15, FWW13a, FWW13b, OSM94a, OSM94b, OSM94c]. **Top-** [GN19, QQC<sup>+</sup>13a, QQC<sup>+</sup>13b, CLZ<sup>+</sup>15, FWW13a, FWW13b].  
**Top-Performance** [Sca11]. **Topological** [D'A98, Fu97, KKM<sup>+</sup>13].  
**Topologies** [VG01, NCV10]. **Topology** [ZJL14, MCF<sup>+</sup>11, MCF<sup>+</sup>14].  
**Topology-constrained** [ZJL14]. **tour** [Nav01a]. **toys** [II09, MI07]. **tr** [Bar90]. **trace** [ATdM07]. **Traces** [NCJF18]. **Track** [HUN<sup>+</sup>19, LT03].  
**Tracking** [CZW15, Joh94a, SHS14]. **Tractability** [Sut21]. **tractable** [Lei85].  
**Trade** [Abb94, GHST17]. **trade-offs** [GHST17]. **tradition** [dBB08]. **traffic** [BBK12, SLZ<sup>+</sup>20, WXZY12]. **training** [VR18]. **Trajectories** [GVD15, KTY<sup>+</sup>18]. **transaction** [Lus94]. **transaction-based** [Lus94].  
**transactional** [FMG22]. **Transducers** [BR20, Cro86, KMRY20, Moh94, CFLH<sup>+</sup>22, EHS07, Gaa04, GHR<sup>+</sup>16, VHL<sup>+</sup>12]. **Transducing** [KR14].  
**Transform** [ABM08, Neu10, DGG<sup>+</sup>19, TZYH14, ZMAB03].  
**Transformation** [BCC<sup>+</sup>13, Gro92, Kha16, MFMA17, AK08, EHS07, Fil21, GT90, KH06, Sid95, Sid99, Sid00, TA90]. **Transformational** [PV91, PS90].  
**Transformations** [ASJDW21, ADR15, DW17, DN77, JM90, KC87, Rob88, SdM01, AK09a, ASJDW18, Arn93a, Arn93b, ETV88, Ryt89, SG12, dLFM07].  
**transformed** [AMB<sup>+</sup>02]. **Transforming** [SG16]. **transit** [BWG12].  
**transition** [BG91a, CW13, GT90]. **Transitions** [OS11, Gef03, Lau00].  
**Transitive** [AS85, LOZ<sup>+</sup>24, LH03]. **Translating** [HSW97, HSW01, Rev91].  
**Translation** [AU72, AU73, Gef03, Ver70b, Ver70a, Rot91, TZYH14].  
**translational** [Man06]. **translocations** [GFG11]. **Transmission** [Jok90].  
**transport** [SNM<sup>+</sup>13]. **Transposition** [LT03, MNU05, Deo06].  
**transposition-invariant** [Deo06]. **transputer** [CEMW91]. **traversal** [NRO12]. **traversal-based** [NRO12]. **Traversals** [Sto96]. **TRE** [Ano13].  
**Tree** [AGT89, AM91, AYCLS02, Cha02b, Cha02c, CHZ06, CH97b, CH03, CMNP17, CMNP18, DNM00, DGM94, FV16, GHLW15, GL19, JWZ94, Kid09, KM94, KLH16, LPR<sup>+</sup>08, MS98, McC76, MSZ17, MOSZ18, RR90, Shi00, Shi04, Sto96, BDB90, BTG83, CGR03, CLZ<sup>+</sup>15, Cha87, CLS95, DF00, DGM90, EHS07, FCFM00, Far92a, Far92b, FG99, KS11a, Kos89, Mal93, SGYM00, SSLL21, TJMC20, Vou06, CGR02]. **Tree-Like** [GHLW15].  
**tree-manipulation** [Mal93]. **Tree-Structured** [CMNP17, KM94].  
**tree-walking** [EHS07]. **Trees** [BYCMW94, BCP02, FK16, GHLW15, Gol93, Gro92, GV05, Gus97, HO82,



JWZ94, Nel96, RR92, SCFC94, Sim83, ACFC<sup>+</sup>16, CPT92, Gro91a, Gro91b, GV00, JRV96, Kos94, Mäk89, TTHP05, TJMC20, Ukk93, Ver92]. **Trial** [LRV13, LRSV18]. **Triangle** [IEE89]. **Triangles** [GP18]. **trichotomy** [BBG13]. **Tricks** [Abb94]. **Trie** [CCH09, GO12, KW19]. **tries** [BYG96]. **Trigram** [Cox12]. **Trillion** [PSP<sup>+</sup>18]. **Triplestores** [LRSV18]. **Truly** [GP92]. **trusted** [WXZY12]. **Tucson** [ACM97a, Apo92]. **Tumor** [WZJH12]. **Tuning** [Rai92, Smi94]. **Turing** [GOMSJVGP08]. **Turkey** [SMD04]. **Tutorial** [KP96a, Lut02, KP96b]. **Twentieth** [ACM93a]. **Twenty** [ACM06, ACM07, AAC<sup>+</sup>01, AOV<sup>+</sup>99, B<sup>+</sup>02, LL08, ACM90b, ACM91, ACM92d, ACM93b, ACM94d, ACM95c, ACM97c]. **Twenty-Eighth** [B<sup>+</sup>02]. **Twenty-Fifth** [ACM06, AOV<sup>+</sup>99, ACM93b]. **twenty-fourth** [ACM92d]. **twenty-ninth** [ACM97c]. **twenty-second** [ACM90b]. **Twenty-Seventh** [LL08, AAC<sup>+</sup>01, ACM95c]. **Twenty-Sixth** [ACM07, ACM94d]. **Twig** [DLG12, BKS02, KRML09, MMZ10]. **twigs** [RM06]. **Two** [AF92, ABF94a, ABC<sup>+</sup>04, Ano68, ADLM96, BYN98, BR20, BKLP97, BKL<sup>+</sup>02, Bir77a, BGJ01, CDJM15, CL95, CHZ06, CHLT14, Co072, CP91, CR92, CGR93, CCG<sup>+</sup>94, CGPR95, CGH<sup>+</sup>98, CIK98, FU98, FNU02, Gal76b, Gia93, HY92, Hum88a, HW12, JSC83, JU91, KPR00, KU99, LY86, Lud77, Mid96, MPW21, Ott94, Par96, Prû17, She59, TIT83, XZL<sup>+</sup>19, ZT89, AK08, ABF94b, AKT06, AGM05, ADLM01, BYR93a, BYR93b, Bar84a, CK02b, CP10, CCG<sup>+</sup>93, CR94, GP92, HY90, HR01, HLN09, KLL23, KWL07, KM13, dSOMY15, Par98, Rot91, SN94, VLP17]. **Two-** [KU99]. **Two-Dimensional** [ABF94a, ADLM96, BYN98, BKLP97, BKL<sup>+</sup>02, CL95, CHLT14, CR92, CGPR95, CGH<sup>+</sup>98, CIK98, FU98, Gia93, HW12, KPR00, Par96, Prû17, ZT89, AF92, ABC<sup>+</sup>04, CGR93, Mid96, MPW21, TIT83, ABF94b, AKT06, AGM05, ADLM01, BYR93a, BYR93b, CR94, GP92, HLN09, KM13, Par98]. **Two-Head** [LY86]. **Two-Level** [JSC83, KWL07, dSOMY15]. **two-patterns** [CP10]. **two-point** [Rot91]. **Two-Sided** [CDJM15]. **two-tier** [KLL23]. **Two-Way** [BR20, Co072, CP91, She59]. **Type** [JM93, Sou99, Van06, CD18, CGPS13a, CS11b, FF08, JO97, Nil90, Pie08, Rou21, ZBST14]. **type-ahead** [ZBST14]. **type-checking** [CGPS13a]. **type-theoretic** [Pie08]. **Typed** [JP11, Xi03, YGG<sup>+</sup>23, CDP16b, Dow91, Tej20]. **Types** [ASJDW21, FR00, KKFI<sup>+</sup>24, Pre99, ASJDW18, BC93, CGPS13b, GLS07, GPN96, GHR14, HVP00, HVP05, JGMP22, JD89, KS93, Kra08, dSOMY15, OR11, SG16, TCP16, Vou06]. **typeset** [San95]. **typing** [FhDAF09]. **Typography** [AGS93a, AGS93b, AGS93d, AGS93e, AGS93c]. **typy** [OA17].

**U.S.** [Bol02]. **UK** [AOV<sup>+</sup>99, PC99]. **Ukraine** [Bro93]. **Ultra** [ATX21, KW19]. **Ultra-Fast** [ATX21]. **Unambiguity** [BK93b, BK93c, BK93d, BK93e]. **Unambiguous** [BKW92d, Pre99, CX20, SH85]. **Unary** [Huc21]. **Unavoidability** [Hei01]. **Unbounded** [Bre94a, Nil90]. **uncertain** [GS22, KC15]. **uncovering** [Edw07]. **Undecidability** [Hir96, KR95, Dow93, Leu97, XH23]. **Understanding** [LLS<sup>+</sup>20, TWZ23]. **Unicode**



[Anoxx, Chi17, Dav99, Dav03, Dav04, Dav21, Dav22, NK07]. **Unification**  
 [Kni89, Wal88, CDP16b, CD18, DRSS96, OND98]. **Unified**  
 [BY96a, BGM19, CLST<sup>+</sup>13, Tar81b, AP13, DLF<sup>+</sup>15, GW92, Tak96a].  
**Unifiers** [CDP16b]. **Uniform** [Bre94a]. **Uniform-Length** [Bre94a].  
**Unifying** [Wol90, KMS<sup>+</sup>03, MZZ10]. **Union** [Nag21]. **Union-Free** [Nag21].  
**Union-Freeness** [Nag21]. **Unique**  
 [AKT20, ATX21, AG84, GHST17, HTX17, IKX15, Van06]. **Unit**  
 [BK75, Les94]. **Units** [LLLC17, GÁSÁ<sup>+</sup>13]. **Universal**  
 [FK16, FMG23, GL19, PS10, Sad96, Apo93b, CDDM05, FMG22, Jon13].  
**University** [Ano97b, Hig95, Hwa85, PC99, HWF90]. **UNIX** [Ano92a, Gt92,  
 Lud77, Mah07, Qui02, Rei77, Rob99a, Rob99b, Fri97b, Hol84, dBB08].  
**Unix-Like** [Hol84]. **unless** [EMT23]. **Unordered** [CGS17]. **UnQL** [BFS00].  
**unrestricted** [Lei85, Leu97]. **Unstructured** [Gon83, PYY19].  
**Unsupervised** [WWW<sup>+</sup>16]. **UPaK** [WKR09]. **Update**  
 [FG98, FG95a, NNSP22]. **updates** [Che08]. **Upper**  
 [CH97a, GG92, Les94, SASU13]. **Ups** [JN24]. **Urbana** [Hwa85]. **URL**  
 [TD18]. **USA** [ACM06, AP10, Apo92, BGNP94, CG94b, FC98, KP15, SC04,  
 SM09, SM11, DGBH93, FMA02, HF13, IEE09, Kap92, KLB12]. **Use**  
 [Bol02, IY02a, IY02b, CC97, WSS94, YIAS89]. **used**  
 [BY96b, Sch91a, Sch91b]. **Usefulness** [CR91]. **USENIX** [USE92]. **User**  
 [KMRY20, SOR16, KMR21]. **User-Defined** [KMRY20, KMR21]. **users**  
 [BJK<sup>+</sup>12]. **Using**  
 [AGT89, BYCMW94, BCP02, Bow87, BK93g, BZ98, CvW18, CF85, CHP92,  
 CFM00, CW84, Cop91, Dav73, EZYA23, Far19, Goe95, GHK<sup>+</sup>91, Gro92,  
 GL86, GH82, HEWK03, How97, JM85, JLH18, KP96a, KKK11, Kin89,  
 LSW08, LY17, LLLL08, LLCC13, MS98, Mar89, MUHT96, MPN<sup>+</sup>14, Mei15,  
 Mu 95, MuT95, PAMP12, Rez92, SBHM94, Sch95, SHvR<sup>+</sup>16, STSA99, Spi99b,  
 ST95, TMV<sup>+</sup>01, TB00, WZJH12, WBA83, Yun12, ZGY<sup>+</sup>16, AVN22, AG06,  
 BSY00, BDB90, BGHZ15, BCD14, BBHK14, BWG12, CADA18, CPW88,  
 CP97, CEMW91, DA18, FL71, GS81a, GHS12, GS06, HTK<sup>+</sup>21, HM00,  
 HHLS06, II08, JLHB92, JGMP22, JSH09, KCPC13, KW05, KP96b, KKM<sup>+</sup>13,  
 KT14, KAT07, KST94, Kim99, KWLL08, KJS17, KD15, KM13, KMM15,  
 KST16, Lab12a, Lab12b, LKM23, LS09, LT90a, LMT16, MW92b, MLC08].  
**using** [Mun95, Mus05, NYuR15, Neb06, NK07, OK94, PIR17, San15, SD91a,  
 SD91b, SW93, SMS15, STKD20, SG16, Spi99a, TM05b, Val09, Vol12, Wri94,  
 ZC89, ZMAB03, ZZH10, ZMSD93]. **USL** [DWE89]. **Utah**  
 [SC93, SC04, SM09, SM11, SC95, SC96, SC98, SC99, SC01, SC02, SC03, SM10].  
**Utilities** [ASA17, IEE01e, IEE01f]. **Utility** [Pit98]. **Utilizing** [XK92, All82].

**V** [TT22]. **valid** [SMS15]. **validation** [SMS15]. **validator** [dLFM07].  
**Valiente** [Lab12a, Lab12b]. **Valuation** [DM11]. **values** [Nil90]. **Vancouver**  
 [LL08]. **Variable** [BL94, BGVW12, KR97]. **Variables**  
 [FMMS20, CFLH<sup>+</sup>22, KR95, MF96]. **variance** [AGW13]. **Variant**  
 [KKFI<sup>+</sup>24, Neb06]. **variation** [Lec92]. **Variational** [BCWG09]. **various**



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