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**Title word cross-reference**

[SRW02]. + [Han81a]. <sup>TM</sup> [Bla03]. <sup>.5ex/</sup>  
[AW82]. || [DDDCG02]. A [DES12].  $\mathcal{R}$   
[JMSY92].  $\mathcal{R}_{Lin}$  [VR95].  $\ell$  [ADG<sup>+</sup>94].  
(*k*) [ADGM91, BL94b, KM81]. 2 [Dam03]. 3  $O(nm)$  [Pet82].  $\phi$  [CF95, DR05].  $\pi$  [ABL03].

**-calculus** [ABL03]. **-Exclusion** [ADG<sup>+</sup>94].  
**-function** [DR05]. **-Nodes** [CF95]. **-Tree**  
 [Han81a]. **-valued** [SRW02].

**11** [ND16].

**256** [App15].

**568** [Han81b].

**8** [Ano18].

**90** [DP99]. **95** [WJS<sup>+</sup>00].

**Abstract** [BGL93, BK11, CMB<sup>+</sup>95,  
 CFG<sup>+</sup>97, DGG97, DLR16, ELS<sup>+</sup>14, EO80,  
 GS98, HL82, JPP91, KRR18, Lan80, LO94,  
 LV94, LM18, LR13, Loe87, MSJ94, MP88,  
 SS98, She91, Wei89, van88, ABS09, BDL<sup>+</sup>08,  
 BdlBH99, Leu04, RM07, SYH07, SJ03].

**Abstraction** [CGL94, CL94, Der85,  
 GMH81, SM81, BMR05, BBTS07, GMZ00,  
 LN02, LH08, MOSS96, PR07, Ell82].

**abstractions** [BCF04]. **Access**  
 [ABLP93, BCC04, KS83, Mis86, NBG13,  
 HR02, HO07, KSK07, PHP02, PSS05].

**Access-Right** [KS83]. **accessed** [RR05].

**Accessing** [CB80]. **Accumulation**  
 [Bir84, Bir85]. **Accumulators** [Cam89].

**accuracy** [CEG07, HDH02]. **accurate**  
 [CG04, VBLG04, VALG05]. **ACE** [Le 88].

**ACM**

[Ano18, Kro82, Kro83, Kro84, Kro85, Kro86,  
 Kro87, Kro88, Kro89, Kro90, Kro91, Kro92].

**Across** [NSTD<sup>+</sup>15]. **Action** [BKS88].

**Actions** [Lam94, LS83]. **Activity**  
 [Bar81, MTG80]. **Actor** [TCP<sup>+</sup>17]. **Acyclic**  
 [BE94, JF81]. **Ad** [MDCB91, PS08]. **Ada**  
 [Bak82, Dil90, Hil88, LP80, WJS<sup>+</sup>00].

**Adaptation** [Dha91]. **Adaptive** [ABH06,  
 HOYY18, PXL95, TCVB14, UJ92, RD03].

**adaptors** [YS97]. **Addendum** [Bir85].

**Adding** [ACW90, BN94]. **Addressing**  
 [Hol87, ZP10]. **Adequacy**

[KKSD94, Wey83]. **adjusting** [ABB<sup>+</sup>09].  
**advice** [WKD04]. **Æminium** [SNS<sup>+</sup>14].

**Affine** [BAC16, BCEM15, CFNH18,  
 ELS<sup>+</sup>14, VJB12]. **Affix** [GF85]. **agents**  
 [BCC04]. **aggregate** [LSLR05]. **Ahead**  
 [BLH12, DP82]. **al** [Ano18]. **Alarms**

[LLK<sup>+</sup>17]. **Algebra**

[Koz97, Wil82a, KBC<sup>+</sup>99]. **Algebraic**  
 [BP82, BWP87, CIJGP18, Jen97, Lin93,  
 JB06, SP07]. **Algorithm**

[AB81, Bak82, BB79, BAC16, BP82, DSW82,  
 Dha91, DP93, GHS83, Hua90, Hud91, LV94,  
 LY98, Lei90, LT79, LH91, MM82, MC82a,  
 Pet82, SH89, TB98, Wis79, BKRW98, BH99,  
 DR05, DVD07, JNZ06, Van96a, Van96b,  
 Han81b, BKRW05]. **Algorithmic**  
 [BP82, CFNH18, GM12, Loe87].

**Algorithms** [Apt86, BA84, CIJGP18, CS95,  
 CN83, GLO88, KRS84, KKM90, Kro82,  
 Kro83, Kro84, Kro85, Kro86, Kro87, Kro88,  
 Kro89, Kro90, Kro91, Kro92, MM89, RD87,  
 RH87, RP88, TM93, WW95, Apt00, DAS98,  
 GC01, ZGZ05]. **Alias**

[Hor97, HBCC99, RRSY08]. **Aliasing**

[Boe85, Ram94, RLS<sup>+</sup>01]. **All-Purpose**  
 [Spo86]. **Allocating** [ZP07]. **Allocation**

[BB79, Bre89, BCT94, CH90, CS95,  
 FLBB89, GSO94, Rob79, SH89, CGS<sup>+</sup>03,  
 HCS10, LGAT00, PS99, PF96, RDG08,  
 SRM10, TP04]. **Alma** [ABPS98]. **Alma-O**

[ABPS98]. **almost** [Duc08, Ram99].

**Alternative** [Gho93, GH80, Zav85]. **Alway**

[Gri79]. **ambients** [BCC04, LS03, MH06].

**Ambiguity** [Tho94]. **amortized** [HAH12].

**Amulet** [VHM<sup>+</sup>01]. **Analyses**

[AC94, CC95, CFM94, KSV96, SJ03].

**Analysis**

[AKNP17, ABE<sup>+</sup>05, AD98, Bac84, BNN18,  
 BC85b, Blo94, BE13, Bur90a, CFNH18,  
 CDK<sup>+</sup>18, CMN91, DKKL18, DL93, Deb95,  
 DP97, DAW88, FJK<sup>+</sup>17, GNS<sup>+</sup>15, GJ93,  
 HP96, HOYY18, Hil88, Hor97, ISY88, Jen97,  
 KD94, LLK<sup>+</sup>17, LR13, LHR19, McG82,  
 MWB94, MOS07b, OHL<sup>+</sup>14, OIH<sup>+</sup>16,

Pal95, PO95, PCC85, PP91, PW94, PW98, Pur91, RTD83, RTP17, RP88, SR95, SSS83, SGL98, SS13, ABB<sup>+</sup>09, BDFZ09, BAL07, Bla03, Blu99, BCG<sup>+</sup>07, CSW06, Cha02, CGS<sup>+</sup>03, CKT86, DDV99, DGS97, FF99, GHB<sup>+</sup>96, GJ05, GZ04, GCRN11, HAM<sup>+</sup>05, HPMS00, HBCC99, HVDH07, HAH12, IK05, JLRS10, KBC<sup>+</sup>99, KK07, KSK07, LP00, LH08, MPM03, NS13, PHP02, Pal98, PKH07, Ram00, Rep00, RSL10, RD97, RRSY08, RR03, RR05, RLS<sup>+</sup>01, SRW98, SRW02, STS03, SdSCP13, SS96, ST00a, WP10]. **analysis** [WJ98, ZSD09, dHB<sup>+</sup>96]. **analyze** [DMM01, VBLG04]. **analyzer** [SMP10]. **Analyzing** [AW85, BEF<sup>+</sup>16, CFP<sup>+</sup>04, GMM99]. **And/Or** [Har80]. **Annotations** [Bur84]. **AOP** [DES12]. **APL** [Bud84, GD82, Hob84]. **Applicability** [DAW88, How80, LS98]. **applicable** [Gom92]. **Application** [CD79, DF80, DF81, LBN17, LR13]. **Applications** [BLRS12, Bou88, BALP06, CMLC06, NR06]. **Applicative** [AC94, KS86]. **apprentice** [MP02]. **Approach** [AKNP17, ABR81, AR80, BAC16, BP82, Bur90a, CH90, CD79, DS90, Ell82, ES97, FT94, GGL15, Har80, Hes88, KKW14, Lam79, Lam80, Lee86, MW80, MDCB91, ND16, OA88, Sam80, Spo86, SM81, SNS<sup>+</sup>14, Bou05, CRN<sup>+</sup>08, DHM<sup>+</sup>12, FGM<sup>+</sup>07a, JLRS10, KV00, LP80, MBT09, PSS05, PCJD08, RC03, SP07, WS97]. **approximations** [BGP99]. **Apt** [Moi83]. **architected** [ZP07]. **Architecture** [Wal92]. **Architectures** [Han94, KPF95, NSTD<sup>+</sup>15, PAS<sup>+</sup>15]. **Arising** [Bac84]. **Arithmetic** [Fis80, GNS<sup>+</sup>15, Hen83, LdR81, MOS07b]. **ARM** [FKW98]. **Array** [CGST95, CG95, LS79, Per79, PW98, JB06, LSLR05, NI05, PHP02, RMH06, RR05, ZCG<sup>+</sup>07]. **array-valued** [RMH06]. **Arrays** [BBC16]. **Article** [Ano18]. **ASF** [VHKO02]. **aspect** [DWWW08, WKD04]. **aspect-oriented** [DWWW08, WKD04]. **AspectML** [DWWW08]. **Aspects** [Bor81, Set83]. **assembly** [AAR<sup>+</sup>10, MWCG99]. **Assertions** [BKB80]. **Assessing** [BDH<sup>+</sup>16, Wey83]. **Assignment** [BM94, CFR<sup>+</sup>91, GL80, GPF08, LDK<sup>+</sup>96]. **Assisted** [HCHP92]. **Assisting** [Fea82]. **Associated** [PPS79]. **associativity** [Cha02]. **Associons** [Rem81]. **assume** [HQRT02]. **assume-guarantee** [HQRT02]. **Assumptions** [ES97]. **AST** [GVC15]. **Asynchronous** [Bag89, GLO88, Mis86, GM12, HR02]. **ATL** [WSH15]. **Atomic** [WL85, Wei90, AE01]. **Atomicity** [JLP<sup>+</sup>14, Wei89, FFLQ08]. **Attribute** [CP95, Hud91, JP81, Jon90, Kat84, KR79, MK94, RD87, WW95, Boy96, CP96, Wu04]. **Attributes** [HT86]. **Author** [Ano86a, Ano88a, Ano89a, Ano90a, Ano91a, Ano92a, Ano94, Ano95, Ano98, Bur91]. **authorization** [FGM07b]. **Authors** [Ano82, Ano83, Ano84, Ano85, Ano86b, Ano87, Ano88b, Ano89b, Ano90b, Ano91b, Ano92b]. **auto** [ZP10]. **auto-addressing** [ZP10]. **Automata** [BMW91, ES97, Pro95, KV00]. **Automata-Theoretic** [ES97, KV00]. **Automated** [GRSK<sup>+</sup>11, KZC15, KF00, Sok87, JNGG10]. **Automatic** [AKNP17, AK87, Ano02a, BBC16, Cat80, CES86, DS90, KK98, Le 88, LK02, LS04, MS83, PZJ05, RH87, SSS81, SLC03, She91, Wat91, Wha94, ABHI11, ATD08, BdlBH99, CRN<sup>+</sup>08, ZCG<sup>+</sup>07]. **Automatically** [Slo95]. **Automating** [GKL94, MTSS09]. **Avoidance** [FGL94]. **aware** [MQ05]. **Axiomatic** [AR80, App94a, Boe85, Sou84, YB87, YB88, LP80]. **Axioms** [Mis86]. **B** [Han81a]. **backpropagator** [PS08]. **Backtracking** [Lin79, VR95, FM87a]. **Backward** [DL18, Mye18]. **Balanced**

[AS80, PB80, vHK00]. **Barrier** [CHMY19]. **base** [LS98]. **Based** [BPP16, BGL93, Bur90a, CGJ<sup>+</sup>97a, CI84, CP95, CH90, CPS93, DVLM15, DLR16, EGP14, GG85, HT86, JTM98, Kai89, KH92, KR79, LFF14, PW98, RTD83, SR95, SGL98, Ste18, SNS<sup>+</sup>14, TY18, Wat94, WGS92, vPS81, BFG08, BMR01, BHM<sup>+</sup>07, BCG<sup>+</sup>07, CTT07, DDV99, Eug07, FF99, HBJ98, KBC<sup>+</sup>99, KK07, KC01, LP00, LH08, LGAT00, MTSS09, MH06, Pal98, PPT08, PCJD08, SP97, SP07, SMP10, SYN06, BDP14, WGS93, WM12]. **Basic** [GLR83]. **Bayesian** [HOYY18]. **BDD** [LH08]. **BDD-based** [LH08]. **Be** [Bee94, Coh91, Wir91, CG04, LP99]. **Behavior** [KLS92, GMM99, VBLG04]. **Behavioral** [LN15, LW94]. **Being** [Cop94]. **benefits** [GMP<sup>+</sup>00]. **Better** [Gri79, Lam88]. **between** [BS88]. **Beyond** [GSW95]. **BI** [BBTS07]. **BI-hyperdoctrines** [BBTS07]. **Bidirectional** [DP93, MMR95, FGM<sup>+</sup>07a, GPWZ08]. **binaries** [STSP05]. **Binary** [Sip82, DDD05, MMM<sup>+</sup>07, RC03, YF09]. **binding** [ACE96]. **Birrell** [MDJ05]. **Bisimulation** [FDY12, MH06, San09]. **bisimulation-based** [MH06]. **bisimulations** [SKS11]. **Bit** [CDK<sup>+</sup>18, KD94, KK07]. **Bit-Precise** [CDK<sup>+</sup>18]. **bitvector** [KSV96]. **Bliss** [GNS<sup>+</sup>15]. **Block** [LS81, Mur91]. **Block-Structured** [LS81]. **Blocked** [FTJ95]. **Blocks** [Jag94]. **Boolean** [XA07]. **Bootstrapping** [App94a]. **Both** [KZC15]. **bottlenecks** [RD03]. **Bottom** [BGL93, GCRN11]. **Bottom-Up** [BGL93, GCRN11]. **bound** [KK07, NI05]. **Bounded** [ADG<sup>+</sup>94]. **Bounds** [CP17, PW94, BP12, CEI<sup>+</sup>07, RR05, SS05a]. **Box** [WLBFB16]. **boxed** [BCC04]. **Branch** [CGJ<sup>+</sup>97a, CEG07, YUW02, YS99]. **Branches** [WZ91, RC03]. **Broad** [DAW88]. **Buddy** [Kau84]. **Buffer** [Žic94]. **bugs** [HCS10]. **Building** [Jag94]. **BURS** [Pro95]. **Bus** [Pur94]. **Bytecode** [SA99, BDL<sup>+</sup>08, CSCM00, FM99, GPF08, KR01, Qia00, SMP10, WR08]. **Byzantine** [LSP82].  
**’C** [PHEK99, BR97, HSS<sup>+</sup>14, ND16, PKH07, PFH11, Ven95]. **C#** [BCF04]. **C/C** [ND16]. **C11** [JP17]. **Cache** [GMM99, KLS92, MMM<sup>+</sup>07, SS96, VBLG04]. **Caching** [ABM93, FK85, KS86, LST98]. **Calculational** [Bou06]. **calculi** [ABS09]. **Calculus** [ABLP93, BKL<sup>+</sup>97, BN94, Gom92, Kob98, MRG88, Nel89, Oho95, WM95, ABL03, AH10, Bou05, Bou06, BCC04, DES12, HR02, IPW01, Jay04, TA08a, KPT99]. **Call** [DP97, GL80, GC01, HL05, KK07, SW97a]. **call-by-value** [HL05, SW97a]. **Calls** [BNN18, Coh83, Coh85, FF08]. **Can** [Boe85, Coh91, Wir91, CG04]. **capabilities** [WCM00]. **capability** [TA08a]. **Carlo** [FL15]. **carrying** [AM01]. **Case** [FTJ95, WW95, BdlBH99, KF03]. **Cats** [AMT14]. **Cause** [Cas95]. **CCP** [EGM01]. **CCured** [NCH<sup>+</sup>05]. **Cedar** [SZBH86]. **Cells** [ISY88]. **Centered** [CHY12]. **Centers** [KRS84]. **Centralized** [HM84]. **centric** [DHM<sup>+</sup>12]. **Certificate** [BGKR09, BK11]. **certified** [STSP05]. **Chaining** [LS80]. **Chains** [HS94]. **challenge** [MP02]. **change** [BA08, CP96, Lee09]. **Changes** [Ber94, MTSS09]. **changing** [MP07]. **Chariots** [PB97]. **Check** [AP94]. **checked** [KN06]. **checker** [NP08]. **Checking** [Car95, CGL94, ES97, FF08, GL94, ND16, AY01, ACM11, BGP99, FFLQ08, HQRT02, JJD98, KF10, KV00, NI05, SG04, VJB12, YMW97]. **Checks** [CG95, CEI<sup>+</sup>07]. **Choice** [BN94, JCMM19]. **CIRCAL** [Mil85]. **Circular** [Jon90, Pet82]. **Circularity** [WW95, Wu04]. **Clarification** [PA86a]. **Class** [HKMN94, Han92, SJ03, SDTF13, HS11, MH04, ST00a]. **Classes**

[SDTF13, WT11, HHPW96, HMS06]. **Classical** [JSB<sup>+</sup>12]. **Classification** [KZC15]. **Classifying** [GSW95]. **Claus** [WP10]. **Cliché** [Wat94]. **Cliché-Based** [Wat94]. **Clique** [GSO94]. **Closure** [Pal95, SW97b, SA00]. **CLP** [DHM00, GLMM05, JMSY92, KMM<sup>+</sup>98, VR95]. **Clustering** [LLK<sup>+</sup>17]. **Clusters** [BGH<sup>+</sup>13, HBG<sup>+</sup>09]. **coalescing** [GA96, Hai05, PM04]. **Code** [AGT89, Cat80, Cop94, DF84, FGL94, GF85, Hen82, HG83, JSB<sup>+</sup>12, KRS94, LR13, ND16, Rob79, TvS82, Wan82, AM01, DEMD00, Hai98, HBG<sup>+</sup>09, HK07, JNZ06, LDK<sup>+</sup>96, MSRR00, ME97, Oho07, PHEK99, WS97, vHK00, CM93, Pem83, WST85]. **Cohen** [Coh85]. **coherence** [SS96]. **coinduction** [San09]. **Collect** [JCMM19]. **Collecting** [HY91]. **Collection** [BA84, CN83, DSW82, Lan80, TM93, URJ18, WLBF16, BALP06, HDH02, PBK<sup>+</sup>07, Piq96]. **collector** [BBYG<sup>+</sup>05, LP06, TSB08]. **Coloring** [BCT94, CH90, GSO94]. **combination** [BCG<sup>+</sup>07]. **Combinator** [FRW90, KLS92]. **Combinators** [FGM<sup>+</sup>07a, KS88, KS89]. **Combinatory** [RS97]. **Combining** [Ber94, BP82, CC95, CMB<sup>+</sup>95]. **Come** [LH91]. **Comments** [AB94, KS79, LaL84, NN86, Sor89]. **Communicating** [AFdR80, GC86, HM84, MW84, MC82b, Moi83, Oss83, PP91, Pur91, Sou84, Ber80, KS79]. **Communication** [Ang89, CHY12, FJK<sup>+</sup>17, FY85, Gel85, Hua90, LH91, MB83, vPS81, KBC<sup>+</sup>99, Mil85, SWU10, WM12]. **Communication-Centered** [CHY12]. **Communications** [RS84b]. **Commutativity** [RD97, Apt00, Cha02]. **Compact** [BC79, Sip82, Wad90]. **Compactification** [RH87]. **Compacting** [CN83]. **Compaction** [CP17, Wis79, BP12, DDD05, DEMD00]. **Comparative** [WCW90, WCW91]. **Comparing** [Hai05]. **Comparison** [CN83]. **Compartmentalized** [WLBF16]. **CompCert** [BDP14]. **Compensation** [FGL94]. **Compilation** [DLR16, FKW98, FL91, JLP<sup>+</sup>14, JF81, Oho95, PAS<sup>+</sup>15, Sit79, KMM<sup>+</sup>98, LST02, LDM07, SYN06]. **Compile** [ABR81, GW99, Hol87, Tra08]. **Compile-Time** [ABR81, Hol87, GW99, Tra08]. **Compiler** [App94a, Bud84, CM86b, DK17, DEMD00, FT94, FGL94, JSB<sup>+</sup>12, Rei83, Slo95, Son87, Wha94, YBL16, Ano02a, CMLC06, DHS09, GMM99, KN06, PE08, PHEK99, SYK<sup>+</sup>05, VHKO02]. **Compiler-Driven** [YBL16]. **Compilers** [BDFH97, DDH84, HP96, Han94, BGKR09, RD97, SYN06]. **Compiling** [Cha93, CH87, Fis80, Set83, VHKO02]. **Complementation** [CFG<sup>+</sup>97]. **Complete** [BDFH97, WM95]. **Completeness** [LBN17, TB95, WGS92, Wu04, WGS93]. **completion** [KR01]. **Complexity** [BEF<sup>+</sup>16, Deb95, Le 88, RRSY08, SSD09]. **component** [LS98, YS97]. **component-base** [LS98]. **Componential** [FF99]. **Components** [CIJGP18]. **Composing** [AL93, HKMN94]. **Composite** [Fea87]. **composition** [AH10, Pau01]. **Compositional** [Fos96, Jon94, JTM98, LFF14]. **compressed** [DAS98]. **Compression** [BMW91, CSCM00, DKV07]. **Computability** [HMS06]. **Computable** [PK82]. **Computation** [AC94, BOV85, DP82, HS94, LST98, PB97, ABB<sup>+</sup>09, AE01, DR05, LK02, SWU10, SGL97, Hal85]. **computational** [ATD08, SSD09]. **Computations** [DW89, MC82b, VSS94, YS91, LSLR05, Mon08, YF98]. **Computer** [HCHP92, Wol92]. **Computer-Assisted** [HCHP92]. **Computers** [Fis80, LK02]. **Computing** [ANP89, CFR<sup>+</sup>91, CF95, KM81, HVB<sup>+</sup>99, MMG00]. **Concept** [Tur86, ST00a]. **Concepts** [Eug07].

**Concerning** [Sha82]. **Concrete** [Bar81]. **Concurrency** [BG89a, Lam90, Wei89, BCF04, Mil85, TA08a, CPS93]. **Concurrent** [BC91, Car95, CIJGP18, Cla80, CES86, CPS93, CFM94, DGMP97, FT94, Hal85, HSP83, HW90, Her93, JTM98, Kar84, Lam83, LFF14, MSM<sup>+</sup>16, OL82, Pet83a, Pet83b, RY88, Sku95, SNS<sup>+</sup>14, AE98, AE01, AAE04, BBYG<sup>+</sup>05, BGP99, CSW06, JPS<sup>+</sup>08, RS97, SRM10, YS10]. **Concurrent-by-Default** [SNS<sup>+</sup>14]. **Concurrent-Program** [FT94]. **Condensation** [JTM98]. **Condition** [HW90]. **Conditional** [Boy96, WZ91, Dam03]. **Conditioning** [OGJ<sup>+</sup>18]. **conditions** [KWL09]. **Conference** [Wol92]. **confined** [GPV07]. **Conflict** [Cas95]. **Conjecture** [KPS92, Sag86]. **Conjoining** [AL95]. **conservative** [Hai05]. **considered** [Gor04]. **Constant** [CIJGP18, Coh91, WZ91, Wir91]. **Constrained** [BG89a, DAW88, PS96, Žic94, LPP01]. **Constraint** [Bor81, DGMP97, DDV99, NSTD<sup>+</sup>15, Pal95, PW98, Ste18, Apt00, BMR01, DPPR00, FH04, GHB<sup>+</sup>96, HPMS00, SS08, SS09, SP07, SSD09, dHB<sup>+</sup>96]. **Constraint-Based** [PW98, Ste18, DDV99, SP07]. **Constraint-Oriented** [Bor81]. **Constraint-Solving** [NSTD<sup>+</sup>15]. **Constraints** [AKP94, DFR15, HG83, Mye90, BA08, RM10, TFK<sup>+</sup>11, Van96b, VHM<sup>+</sup>01, Van96a]. **Construct** [Ans87, BS83, Kat93]. **Construction** [ADGM91, HIT97, LaL81, MB83, RH87, SL92, CMS03, GC01]. **Constructive** [Loe87]. **Constructs** [AR84, DJP<sup>+</sup>16, Par90]. **Context** [GHR80, Ode93, PK80, Ram00, RTD83, Rep00]. **Context-Dependent** [Ode93, RTD83]. **Context-Free** [GHR80]. **Context-sensitive** [Ram00, Rep00]. **Contexts** [Ode93]. **Continuation** [BDM15, Wan82]. **Continuation-Passing** [BDM15]. **Continuations** [BDM15, HF87]. **Continuous** [KF03]. **contract** [DF11]. **Contracts** [SIG17, SDTF13, CGP09]. **Contravariance** [Cas95]. **Control** [ABLP93, Bur84, CL94, CFR<sup>+</sup>91, DP97, FM87b, Kat93, Lam88, Lin79, NBG13, PB97, PBR<sup>+</sup>15, Set83, SS13, Tur84, Wat83, Wei89, BCM99, BCC04, HO07, PSS05, RAB<sup>+</sup>07, Zho96]. **Controlled** [Min84, Tho94, JC97]. **Controlling** [BALP06, LaL81, LMD98]. **Convention** [AF84]. **Convergence** [Bar85]. **Conversion** [CS87, SW97b, SA00, YK97]. **Cooperating** [GLR83, NO79]. **Cooperation** [BKS88]. **Coordinating** [JS94]. **Coordination** [GLR83]. **copying** [TSBR08]. **core** [IPW01]. **Coroutine** [Sam80]. **Coroutines** [LS81, DI09]. **Correct** [DGMP97, Hen86, JP17, SS88, AAD<sup>+</sup>07]. **Correction** [FA93]. **Correctness** [Apt86, CM86b, FRW90, Gom92, HW90, Lam79, Lam80, Oss83, San96]. **correlated** [YS99]. **Correspondence** [BS88, Bur90b, Bur91, Coh91, CM93, DS88, Ell82, FA93, Fra81, Hen83, LaL83, LaL84, Moh81, Moi83, MS88, NN86, Par90, Pem83, Sor89, SM82, Tan83, Tic88, Vol91, WST85, Wir91, YB88]. **Corrigenda** [WCW91]. **Corrigendum** [Ano18, BKRW05, DF81, Fra80a, KS89, Lam80, Pur91, QG95, Van96a, Wal81, WGS93]. **Cost** [AB81, Bac84, DL93, Hai98, Han81a, ZGZ05, VALG05]. **Cost-optimal** [Hai98]. **costs** [GMP<sup>+</sup>00]. **Counting** [Bal94, LP06]. **Counts** [Bob80, Wis79]. **Coupled** [ACW90]. **Covariance** [Cas95]. **covariant** [PZJ05]. **Creating** [Mye90]. **criteria** [Hai05]. **Critical** [PS93]. **Critique** [GM81]. **Cross** [Ano18, FTJ95, GSS<sup>+</sup>18]. **Cross-Interferences** [FTJ95]. **Cross-Language** [Ano18, GSS<sup>+</sup>18]. **Cryptographic** [App15]. **CS** [CD79]. **CSP** [AF84, Bag89, BS83, Fid93, Hua90, LS84, Zic94]. **CSP-Like** [Hua90]. **currency** [DS98]. **Curry** [LR19]. **Curry-Style** [LR19].

**Custom** [DJP<sup>+</sup>16]. **CV3** [CZ84]. **Cycle** [BG89b, PBK<sup>+</sup>07]. **Cycles** [FRW90]. **Cyclic** [RY88].

**D.** [Bur91]. **Data** [AMT14, ANP89, AM85, Bac84, BC85b, BL87, Bur90a, Cha93, CS87, Deb89, DP93, DD85, Ell82, EO80, FL81, GMH81, GEGP17, HL82, Her93, Hes88, Hol87, Jen97, KH92, Kam83, KZC15, KK98, KD94, LaL89, LO94, LN02, Loe87, Mal82, MMR95, MCT96, PP91, QG95, RCRH95, RP88, SSS81, Sku95, SGL98, SM81, TWW82, WL85, Wei89, Wei90, Wet82, Wey83, CFP<sup>+</sup>04, DHM<sup>+</sup>12, DGS97, HBJ98, KBC<sup>+</sup>99, KF00, LK02, Rep00, SP07, VALG05, YUW02, ZGZ05, Pur91]. **data-centric** [DHM<sup>+</sup>12]. **Data-Driven** [BL87, CS87]. **Data-Flow** [BC85b, Bur90a, Wet82, RP88, KBC<sup>+</sup>99]. **data-independence** [Rep00]. **data-member** [KF00]. **Data-Parallel** [Cha93, HBJ98]. **Database** [Bar85, CB80]. **Dataflow** [Deb95, DFR15, MWB94, SS13, SS96, Van96a, Van96b, VHM<sup>+</sup>01]. **datalog** [LS09]. **datatypes** [MBC04]. **Deadlock** [CHMY19, Hua90, Kob98]. **Deadlock-Free** [Kob98]. **Deadlocks** [FJK<sup>+</sup>17]. **Dealing** [GLMM05, GG85]. **Debugging** [CMN91, CM93, Cop94, Hen82, WST85]. **Deciding** [GGL15]. **Decision** [MTG80, NO79]. **decisions** [MTSS09]. **Declarative** [ABPS98, TCVB14, Bou05, MME<sup>+</sup>10]. **Decompilation** [BB94]. **Decomposing** [BDL<sup>+</sup>08]. **decomposition** [LK02]. **decrease** [LDK<sup>+</sup>96]. **Deducing** [TB95]. **deduction** [LMD98]. **Deductive** [MW80]. **Default** [SNS<sup>+</sup>14]. **Deferring** [MTSS09]. **Defined** [Wal92, Wal80, Wal81]. **Defining** [Ode93]. **definite** [RKRR04]. **Definition** [Bou92, BWP87, CI84, CD79, Fid93, HS94, WCW90, WCW91, Wol94]. **Definition-Use** [HS94]. **Definitions** [BS86, Wil82b, Dam03, VHKO02, Sij89]. **Delay** [BG89b]. **Delayed** [KPF95, RC03]. **Delayed-Load** [KPF95]. **Delaying** [Kau84]. **Deleting** [GP81]. **Delimited** [BDM15]. **Demand** [GSW95, PA85, PA86a, PA86b, PF96, SR95, DGS97]. **Demand-Driven** [GSW95, PA85, PA86a, PA86b, PF96, DGS97]. **Denali** [JNZ06]. **Denotational** [AB94, FA93, Gud92, MSJ94, NF89, Nie85, Sch85, dBB85]. **Dependence** [BGH<sup>+</sup>13, CFR<sup>+</sup>91, FOW87, HBG<sup>+</sup>09, HRB90, PB97, PW98, Wol94, RAB<sup>+</sup>07]. **Dependencies** [PW94]. **Dependencies** [Deb89, CSS99]. **Dependency** [Blu99]. **Dependent** [LS80, NBG13, Ode93, RTD83, Rob79]. **dequeues** [Chi05]. **DeRemer** [Sag86]. **Derivation** [BKB80, Cat80, DSW82, Gie83, HIT97, Kna90, TM93, Ano02a]. **Deriving** [Wan82, Bou06]. **Describing** [AW85]. **Description** [McG82]. **Descriptions** [Boe85, BKL<sup>+</sup>97, Cat80, Ano02a]. **Descriptors** [Hol87]. **Design** [BPP16, BCD<sup>+</sup>15, BO94, DF80, DF81, FT94, HM84, KKM90, LDM07, ML80, RCS93, RL98, SYK<sup>+</sup>05, Bou05, MTSS09, CMLC06]. **design-pattern-based** [MTSS09]. **Designing** [LaL89, ALZ03]. **Designs** [AW85]. **destructive** [SRW98]. **Detect** [ISY88]. **Detecting** [GSW95, HCS10, Sch85]. **Detection** [CM86a, Hua90, MC82a, MC82b, TM93, AFF06, HDH02, PFH11, PCJD08, XA07]. **Determinacy** [TK94]. **determination** [DS98]. **Determining** [MF88]. **determinism** [TA08a]. **Deterministic** [KR79, Mye18, DL18, Tar07]. **Development** [BKB80, Col84, Fea87, Jon83, ML80, PPS79, Wil82a]. **Diagnosis** [BF87]. **Dialect** [Mul92]. **Dialects** [CP95]. **dialogue** [BCM99]. **DIB** [FM87a]. **difference** [BA08]. **Differencing** [PK82, RSL10]. **Differential** [BKOZB13, ZP07]. **Differentiation** [Sha82]. **Diffusing** [MC82b]. **Dijkstra** [BN94, Nel89]. **Dimensional** [Hil88, GPWZ08]. **direct**

[YK97]. **Directed** [BDJ13, DMM88, Gud92, Han94, Set83, SYYH07, OKN06]. **Direction** [Dar90]. **Directly** [Hob84]. **Director** [KS88, KS89]. **Directory** [Han81b]. **discipline** [FGM07b]. **Disciplines** [SS84]. **Discovering** [FJK<sup>+</sup>17]. **discovery** [PZJ05]. **Discrete** [Bar81]. **Discrete-Event** [Bar81]. **Disjunctive** [Jen97]. **dispatch** [DAS98, MFRW09]. **dispatching** [GZ07]. **Distance** [Wol94, ZSD09]. **distribute** [CRN<sup>+</sup>08]. **Distributed** [ABLP93, AF84, Apt86, AW85, BKS88, BCEM15, Bur84, CJK95, CM86a, CBDGF95, CS95, DAW88, Dug99, FLBB89, Fra80b, GHS83, HSG17, Hua90, HM84, Jon94, Kat93, KK98, KRS84, KKM90, Lam84, LS83, MC82a, RCRH95, SS84, Sch82, TM93, TCP<sup>+</sup>17, Zav85, ABL03, FM87a, HVB<sup>+</sup>99, KGMO04, LK02, MDJ05, Piq96, Fra80a, Moh81, VHB<sup>+</sup>97]. **Distributed-Memory** [KK98, RCRH95]. **div** [Bou92]. **Divergence** [SdSCP13]. **DJ** [DR05, SGL96, SGL98, UM02]. **DJ-graphs** [UM02]. **DLLs** [Dug02]. **do** [SS05a]. **Documentation** [MH86]. **does** [DMP96]. **dolce** [MP10a]. **Domain** [LM18, Tra08, RM07, SS05a]. **Domains** [CMB<sup>+</sup>95, ELS<sup>+</sup>14, GS98, FH04, GLMM05]. **dominance** [Ano02b, DVD07]. **dominator** [SGL97]. **Dominators** [LT79, Ano02b, BKRW98, BKRW05]. **Don't** [AKNP17]. **drf** [MSM<sup>+</sup>16]. **Drinking** [CM84, MS88]. **Drive** [PK80]. **Driven** [BL87, CS87, GF85, GSW95, PA85, PA86a, PA86b, TGT18, YBL16, DGS97, PF96, YMW97]. **Dually** [MT08]. **Dummy** [Lam88]. **During** [BKB80]. **DyC** [GMP<sup>+</sup>00]. **Dynamic** [ACPP91, AGT89, ASF17, BB79, BDM15, Bre89, CHMY19, CTT07, DS98, Dug99, HSS<sup>+</sup>14, HN05, Kai89, KR79, RCRH95, Ven95, WR08, dBB85, ACE96, BP12, CEI<sup>+</sup>07, DDDCG02, GZ07, MMM<sup>+</sup>07, PHEK99, SJP12, SHB<sup>+</sup>07, SYK<sup>+</sup>05, SYN06, WKD04, ZGZ05]. **eager** [FKW00]. **Earley** [Lei90]. **Early** [AB81]. **ECCS** [CDFP89]. **Edge** [DP93]. **Editing** [FL81, HT86, Nix85]. **Editor** [FM87b, DeM83, Mye18, Per90, Rep86, Wol92]. **Editorial** [AP07, App93, AG93, AF94, MP07, Pal11a, Pal11b, Pal12, Pal13, Pal15, FP02, OP04]. **Editors** [DMM88, MM89, RTD83, Wat94]. **EDO** [OKN06]. **effect** [RLS<sup>+</sup>01]. **Effective** [BS83, Col84, KKN06, NI05, PE08, WJ98, YUW02]. **Effectiveness** [BdlBH99, SH89]. **Effects** [Boe85, TA08b]. **Efficient** [AKBLN89, ADGM91, BB79, BGH<sup>+</sup>13, Bre89, Cam89, CS95, DP82, DMM88, GZ05, GZ07, GLR83, GLO88, GSO94, HVB<sup>+</sup>99, HS94, HSS<sup>+</sup>14, HIT97, JP81, Jon90, KKM90, KRS88, KPF95, MVV<sup>+</sup>01, MM82, NB99, NI05, PHP02, PXL95, PKH07, PA85, PA86b, RH87, SS08, SA00, SS88, WG98, YUW02, BCP08, GB99, KSV96, LPSO04, LS09, PBK<sup>+</sup>07, TP04, VWJB10, YF98, PA86a, SS09]. **Efficiently** [Bal94, CFR<sup>+</sup>91, CF95]. **Eiffel** [ACE96]. **elaboration** [KR01]. **Election** [Hua93]. **Eliminating** [BT93, Coh83, Coh85, RD03]. **Elimination** [DP93, SGL98, KKN06, KCL<sup>+</sup>99]. **Elimination-Based** [SGL98]. **embedded** [BCP08, CSCM00, HK07, Rhi03, SRM10, TP04, ZP10]. **Embedding** [HF87]. **Empirical** [BHK07, BDH<sup>+</sup>16]. **Empowering** [JSB<sup>+</sup>12]. **Emulator** [ML80]. **Enabled** [ADG<sup>+</sup>94]. **Encapsulating** [GPV07]. **Encapsulation** [AR84, DDM11]. **Encoding** [Hob84, GZ05, ZP07]. **Encodings** [BC79]. **End** [BDP14, CSCM00]. **enforcement** [HMS06]. **Enforcing** [CEI<sup>+</sup>07]. **engines** [SS08, SS09]. **enhanced** [GH97]. **Entries** [LaL84, SS82]. **Enumeration** [BB94, JJD98]. **Environment** [CO90, SZBH86, CKT86]. **Environmental** [SKS11]. **Environments** [BS86, GKL94, HK85, HT86, Kai89, dJKVS12]. **Epochs** [Sol92]. **equalities**



[FMoPS11]. **Equality** [Pal98]. **Equality-based** [Pal98]. **Equations** [HO82, Bou06, GS11, GMM99]. **Equiprobable** [PB80]. **Equivalence** [VJB12, VSS94]. **Equivalent** [PO95, NP08]. **Erlang** [TCP<sup>+</sup>17]. **Erratum** [SS09]. **Error** [AB81, Bac84, BN99, BF87, FL15, KC01, LaL84, MF88, MYD95, PK80, Ric85, SSS83, SS82, Wet82, ZMVPJ17, dJKVS12, Jef03, XA07]. **Errors** [AWW95, SBB<sup>+</sup>19, Wha94, CPRT02, JNGG10]. **Escape** [Bla03, CGS<sup>+</sup>03]. **ESOP'05** [Sag07]. **Essential** [DES12]. **Esterel** [Tar07]. **Estimation** [SBB<sup>+</sup>19]. **Eta** [DMP96]. **Eta-expansion** [DMP96]. **Euclid** [HW82]. **Euclidean** [Bou92]. **Evaluating** [BLH12]. **Evaluation** [AFV98, Bur84, CGST95, CK93, Gri82, Hud91, Jon90, LV94, PA85, PA86a, PA86b, RD87, RL98, Slo95, SG90, WCW90, WCW91, ADR06, CP96, CG04, GJ05, LDM07, Leu04, ST00b, SYK<sup>+</sup>05]. **Evaluations** [BDH<sup>+</sup>16]. **Evaluator** [Gom92, JP81, KR79, Le 88]. **Evaluators** [CP95]. **Event** [Bar81, YMW97]. **event-driven** [YMW97]. **Events** [Bal94]. **Ever** [Gri79]. **Evidence** [CGJ<sup>+</sup>97a]. **Evidence-Based** [CGJ<sup>+</sup>97a]. **Example** [CM86a, Mye90, Nix85]. **Examples** [Oss83, Jef03]. **Exception** [YB85, YB87, YB88, LS98, LP80, OKN06]. **Exception-Directed** [OKN06]. **Exception-Handling** [YB85, LS98]. **Exceptional** [WN08]. **Exceptions** [ASF17, Hau96, LP00]. **Exclusion** [ADG<sup>+</sup>94, LH91, ABHI11]. **Executable** [Hob84]. **executables** [YF09]. **eXecute** [BR10]. **Execution** [CS87, Dil90, GJ93, JW17, JNGG10, JF81, SS98, SS88, BALP06, GPA<sup>+</sup>01, TSY00, YF98]. **Exemplars** [LaL89]. **Exemplified** [DGL<sup>+</sup>79]. **Exercise** [Kna90, Mis81]. **Exhaustive** [Bur90a]. **Existential** [MP88]. **existing** [LS98]. **expansion** [DMP96]. **Expansions** [SBB<sup>+</sup>19]. **Experience** [FSS83, Wal92]. **experiences** [Eug07]. **Experimental** [LV94, SSS83, Ven95, ABB<sup>+</sup>09, BGP99]. **Experiments** [Tur84]. **Explanation** [Mis81]. **Exploiting** [KOE<sup>+</sup>06]. **exploring** [WS97]. **exponential** [Wu04]. **exponential-time** [Wu04]. **Expression** [GP81, YB87, YB88, HVP05]. **Expression-Oriented** [GP81, YB87, YB88]. **Expressions** [BG89b, CGST95, CC97, DAW88, Fis80, Geo84, Gri82, Hen83, HY91, KS83, LdR81, PK82, Sha82, Sit79, Wat91, Dam03, NN86]. **Expressive** [MFRW09]. **Expressiveness** [WGS92, WGS93, PS96]. **extended** [KGMO04]. **Extending** [CEW14, CMS03, MSRR00, MK94]. **Extensible** [HSG17, Sto04, ATD08, MBC04]. **Extension** [Bur90b, Coh91, WSH15, Wir91, ALZ03, KKN06, LS08]. **Extensions** [Wir88]. **Extent** [MF88]. **External** [Wal80, Wal81]. **Extracting** [GP95]. **extraction** [TSL<sup>+</sup>02]. **extrapolation** [WM12]. **Extrema** [Pet82]. **F** [MWCG99]. **Facets** [ASF17]. **factoring** [DRSS96]. **Failure** [BN99, Dar90, Kar84]. **Failure-Free** [Kar84]. **Fair** [BN94, PR07]. **Fairness** [ES97, OA88, TB95, AH98]. **Families** [LaL89]. **Fashioned** [AL94]. **Fast** [ADR06, DAS98, FMoPS11, HVDH07, LT79, SR95, DR05, PE08, TP04, VBLG04, DVLM15]. **Fault** [CS95, Lam84, LJ99, AAE04]. **Fault-Tolerance** [LJ99]. **Fault-Tolerant** [CS95, Lam84, AAE04]. **FD** [GLMM05]. **FeatherTrait** [LS08]. **Featherweight** [IPW01, LST02, LS08]. **Feature** [ASAVF19, AH10]. **Feature-Specific** [ASAVF19]. **Feeding** [PA86a]. **Fence** [AKNP17]. **Fickle** [DDDCG02, AAD<sup>+</sup>07]. **field** [PKH07]. **field-sensitive** [PKH07]. **fields** [PZJ05]. **FIFO** [FLBB89]. **Final** [Kam83]. **Finding** [KRS84, KKM90, LT79]. **Fine** [PBR<sup>+</sup>15, DNS<sup>+</sup>06]. **Fine-Grained**

[PBR<sup>+</sup>15, DNS<sup>+</sup>06]. **fingerprinting** [CTT07]. **Finitary** [AH98]. **Finite** [ACW90, BLH12, CES86, GC86, PK82, PP91, Pur91, RSL10, Zav85]. **Finite-State** [ACW90, BLH12, CES86]. **Finite-State-Machine** [Zav85]. **First** [ADG<sup>+</sup>94, Bre89, DP97, HKMN94, Han92, JPP91, JS94, LH91, MH04, SDTF13]. **First-Class** [HKMN94, Han92, SDTF13, MH04]. **First-Come-First-Served** [LH91]. **First-Enabled** [ADG<sup>+</sup>94]. **First-Fit** [Bre89]. **First-In** [ADG<sup>+</sup>94]. **First-Order** [DP97, JPP91, JS94]. **Fit** [Bre89]. **Fixed** [SS98]. **Fixed-Order** [SS98]. **Fixpoint** [AC94, Qia00]. **Flexible** [AD98, Hud91, MSM<sup>+</sup>16, WG98, Wil82b, dJKVS12, IV06, KGMO04]. **Floating** [CK94, Fat82, SBB<sup>+</sup>19, Hau96, Mon08]. **Floating-Point** [CK94, Fat82, SBB<sup>+</sup>19, Hau96, Mon08]. **flop** [MMG00]. **Flow** [AR80, AD98, ASF17, Bac84, BC85b, Bur90a, DP97, DP93, FJKA06, Hor97, KD94, MMR95, NBG13, PO95, PP91, PBR<sup>+</sup>15, Pur91, Set83, SGL98, SS13, Wet82, DGS97, HR02, HY07, KBC<sup>+</sup>99, Pal98, PS03, RRSY08, RP88, TZ07, WJ98]. **Flow-Insensitive** [Hor97, FJKA06]. **Flowback** [CMN91]. **Flowgraph** [LT79]. **Flows** [Kna90]. **Floyd** [Yin11]. **Fly** [CF95, BA84, LP06, PBK<sup>+</sup>07, URJ18]. **fold** [RKRR04]. **Folklore** [LY98]. **Font** [FK85]. **Foo** [FA93]. **foreign** [FF08]. **Foreword** [Myl17, Mye18]. **Form** [AK87, BOV85, BM94, CFR<sup>+</sup>91, GSW95, Pal95, GPF08, KCL<sup>+</sup>99]. **Forma** [ZCG<sup>+</sup>07]. **Formal** [BS86, BDP14, CB80, CD79, Fid93, Gie83, HIT97, Kna90, Lee86, Mal82, MH86, Sha82, WP10]. **Formalisms** [PCC85]. **Formalization** [BPP16]. **Formally** [SP97]. **Format** [Wat83]. **Forms** [DS83]. **formulas** [RSL10]. **formulations** [RS97]. **Fortran** [AK87, DP99]. **Foundation** [KRR18, Ban11, RAB<sup>+</sup>07, Rhi03]. **foundational** [AM01]. **Foundations** [GTWA14, LW93, AAR<sup>+</sup>10]. **Fractal** [MPM03]. **fractional** [Boy10]. **frames** [SJP12]. **Framework** [BGL93, Gie83, JW17, KRR18, NSZS13, NSTD<sup>+</sup>15, OHL<sup>+</sup>14, SGL98, ATD08, DGS97, GMM99, GZ04, GC01, Leu04, PS08, RKRR04, TP04, VBLG04, XA07, ZCG<sup>+</sup>07, ZP10, vHK00]. **Frameworks** [MMR95, KK07]. **Framing** [BNN18]. **Francez** [Fra81, Moh81, Moi83]. **Free** [AP94, GEGP17, GHR80, Her91, Kar84, Kob98, JJD98, KSV96]. **freedom** [KS10]. **frontiers** [Ano02b]. **full** [GB99]. **Fully** [JPP91]. **function** [DR05, FF08]. **Functional** [AFV98, Ban87, Blo94, Bou05, Bur84, DW89, FL91, ISY88, JPP91, WM95, Web95, Wil82a, ABH06, Bou06, DWWW08, DF98, PS08, San96, SP97]. **Functions** [AKP94, AK82, Bou92, PB80, SM89, Lee09, MBC04, MB99, MT08, PPT08]. **Further** [CM93]. **Fusion** [LGAT00]. **Fusion-based** [LGAT00].

**G.** [Tic88]. **Garbage** [BA84, CN83, DSW82, ISY88, JCMM19, TM93, URJ18, WLBF16, Wis79, BBYG<sup>+</sup>05, BALP06, HDH02, LP06, Piq96, TSBRO8]. **Garnet** [VHM<sup>+</sup>01]. **General** [BGL93, CHMY19, HSS<sup>+</sup>14]. **General-Purpose** [HSS<sup>+</sup>14]. **Generalization** [Nel89, LMD98]. **Generalized** [Ans87, BS83, KD94, Lin79]. **Generalizing** [DB85]. **Generals** [LSP82]. **Generate** [Son87]. **Generated** [Slo95, dJKVS12]. **Generating** [HBM<sup>+</sup>06, HT86, Jef03, LR13, JNZ06]. **Generation** [AGT89, AS80, BOV85, BM94, DS83, DS90, GF85, GVC15, HKR92, HKR94, Pro95, Rei83, Rob79, She91, ST00b, UJ92, DAS98, MSRR00, PHEK99]. **Generative** [Gel85]. **Generator** [PPS79]. **Generators** [Cat80, GHK81]. **Generic** [LV94, DDM11]. **generics** [IV06].

**Geometry** [CR87]. **Georgeff** [NN86]. **GJ** [IPW01]. **Glanville** [MSRR00]. **Global** [Bac84, Dha91, GHB<sup>+</sup>96, OHL<sup>+</sup>14, PK80, PS92, Sch85, dHB<sup>+</sup>96, CS04, KBC<sup>+</sup>99, DS88, Sor89]. **GLR** [SJ06]. **Goal** [Dar90, Gud92, SYYH07]. **Goal-Directed** [Gud92, SYYH07]. **Goal-Oriented** [Dar90]. **Goto** [CF94]. **GPU** [BCD<sup>+</sup>15]. **Gradual** [TGT18]. **Graham** [MSRR00]. **Graham-Glanville** [MSRR00]. **Grained** [PBR<sup>+</sup>15, DNS<sup>+</sup>06]. **Grammar** [CI84, CP95, GF85, JP81, KR79, Web95]. **Grammar-Based** [CI84]. **Grammars** [BS88, Jon90, Kat84, LaL81, RD87, RH87, Tai79, WW95, Boy96, CP96, Wu04]. **Grammatic** [Tho94]. **Grammers** [BB94, MK94]. **Graph** [Ass00, Bee94, BCT94, CFR<sup>+</sup>91, FOW87, KKSD94, KLS92, MC82a, Son87, CTT07, GC01]. **graph-based** [CTT07]. **Graphic** [Mal82]. **graphical** [VHM<sup>+</sup>01]. **Graphs** [HRB90, KPS92, Kna90, SGL98, DR05, JC97, KSK07, SGL96, UM02]. **grid** [VWJB10]. **Grimmer** [Ano18]. **groundness** [CSS99]. **Grover** [BH99]. **growth** [BALP06]. **Guarantee** [GEGP17, LFF14, HQRT02]. **guarantees** [LS09]. **guard** [MP07]. **guarded** [SP07]. **Guardians** [LS83]. **Guards** [Ber80]. **Guest** [FP02, OP04, DeM83, Per90, Rep86, Wol92]. **Guide** [App94a, BDH<sup>+</sup>16]. **Guided** [OLH<sup>+</sup>16]. **guiding** [VALG05].

**Hackers** [App94a]. **Hancock** [CFP<sup>+</sup>04]. **handle** [VJB12]. **Handling** [Hau96, LdR81, Piq96, SSS83, UM02, YB85, YB87, YB88, CRN<sup>+</sup>08, LS98, LP80, SSD09, Hen83]. **Hard** [Hor97]. **Hardware** [BKL<sup>+</sup>97, Mis86]. **harmful** [Gor04]. **Hashing** [PB80, Duc08]. **Haskell** [GRSK<sup>+</sup>11, HHPW96]. **Heap** [KSK07, BALP06, KF00, YS10]. **heap-manipulating** [YS10]. **Heavily** [BG89a]. **Hennessy** [CM93, WST85]. **Herding** [AMT14]. **Heuristic** [SL92]. **hiding** [LN02, OYR09]. **hierarchic** [AG04]. **Hierarchical** [BA99, CP95, CD79, AY01, CP96]. **hierarchically** [MBC04]. **hierarchies** [ST00a, Van96a, Van96b]. **hierarchy** [KF00]. **High** [Cam89, Fat82, MSM<sup>+</sup>16, URJ18, CMS03, VWJB10]. **High-Level** [Cam89, Fat82, CMS03, VWJB10]. **High-Performance** [URJ18]. **Higher** [AC94, AD98, CJK95, DJP<sup>+</sup>16, BBTS07, DF11, SKS11, SP97]. **Higher-Order** [AC94, AD98, CJK95, DJP<sup>+</sup>16, BBTS07, DF11, SKS11, SP97]. **Highly** [Her93, Sku95]. **Hoare** [Apt81, GM81, LS84, Sok87, Yin11]. **Hoc** [MDCB91]. **Holistic** [ZMVPJ17]. **Homomorphisms** [HIT97]. **HOP** [BLRS12]. **Hybrid** [KF10, KS10]. **Hyperball** [LM18]. **hyperdoctrines** [BBTS07].

**I-Structures** [ANP89]. **I/O** [Car95]. **Icon** [GHK81, Gri82]. **id** [Bee94]. **idempotency** [KOE<sup>+</sup>06]. **Identical** [FLBB89]. **Identification** [BGH<sup>+</sup>13]. **identify** [MMM<sup>+</sup>07]. **Identifying** [Ram99, SGL96]. **Idioms** [PP94]. **IDL** [Lam87]. **IEEE** [Fat82]. **Ignorance** [GNS<sup>+</sup>15]. **Illustrative** [Oss83]. **Impact** [OLH<sup>+</sup>16, CKT86]. **Imperative** [ABPS98, DFR15, Gro06]. **Implementation** [AKBLN89, AOC<sup>+</sup>88, BCD<sup>+</sup>15, Bou88, Bre89, BS83, CM86b, GMH81, Gaz83, Lin93, MDCB91, PXL95, RL98, WL85, CMLC06, FM87a, GB99, LDM07, LPSO04, Tra08, Zho96]. **implementations** [BBF<sup>+</sup>11, BFGT08, DF98]. **Implemented** [DB85]. **Implementing** [BR97, Her93, HW82, Sku95]. **Implications** [Fat82]. **Implicit** [BH05b, SJP12]. **Implicit-signal** [BH05b]. **improve** [KF00]. **Improved** [GHR80, Mur91, KK07]. **Improvement** [MS83, San96]. **Improvements** [BCT94]. **Improving** [CK94, CMB<sup>+</sup>95, MCT96, TCP<sup>+</sup>17, WS97].

**impure** [Pip97]. **incomplete** [GLMM05]. **Incremental** [Bur90a, CP95, DMM88, GM79, HKR92, HKR94, HPMS00, Hud91, Kai89, Lar95, LST98, LHR19, PS92, RTD83, RP88, SGL97, WG98, YS91, BBYG<sup>+</sup>05, CP96, Van96a, Van96b]. **Incrementally** [QL91]. **Independence** [DHM00, Rep00]. **Independent** [ML80, Mul92]. **Index** [Ano86a, Ano88a, Ano89a, Ano90a, Ano91a, Ano92a, Ano94, Ano95, Ano98]. **indexed** [AM01]. **indices** [RR05]. **Indirect** [Piq96, CEG07, YK97]. **Induction** [GSW95, Sit79]. **inefficiencies** [MMM<sup>+</sup>07]. **Inessential** [SS82, LaL84]. **Inference** [CEW14, Deb89, Hen93, LO94, LY98, TB98, Wey83, FFLQ08, JB06, PM06, PT00, PS03, Van06]. **Influence** [FTJ95]. **Information** [AR80, Ano82, Ano83, Ano84, Ano85, Ano86b, Ano87, Ano88b, Ano89b, Ano90b, Ano91b, Ano92b, ASF17, BC85b, HR02, NBG13, PBR<sup>+</sup>15, PS03, GS99, HY07, LN02, OYR09, TZ07]. **Information-Flow** [BC85b, TZ07]. **infrastructure** [SWU10]. **Inheritance** [LN15, WT11]. **initialization** [FM99]. **Input** [BS83, vPS81]. **Input-Output** [BS83]. **Inputs** [PA86a]. **Insensitive** [Hor97, FJKA06]. **Insertion** [AKNP17, GJ05]. **inspection** [CF04, FG03]. **Instantiation** [Der85]. **Instead** [Lam84, Rem81]. **Instruction** [KPF95]. **Instructions** [LS80, PS93, RF97, Rob79, LPP01]. **Integer** [BAGM12, BEF<sup>+</sup>16, BGP99]. **Integrated** [SS13]. **Integrating** [HPR89, WJS<sup>+</sup>00]. **Integration** [CO90, Leu04]. **Intensional** [STS03]. **Interaction** [WSH15, WT11, van88, BCM99]. **Interactions** [JS94]. **Interactive** [ACS84, BS86]. **Interconnectability** [TY18]. **Interface** [Win87, van88]. **Interfaces** [DS90, Mye90, TLHL11, WT11]. **Interferences** [FTJ95]. **Interfering** [Jon83]. **Intermediate** [Lam87, Pem83, TvS82]. **Internal** [Han81a]. **International** [Wol92]. **Interoperability** [Ano18, GSS<sup>+</sup>18]. **interoperable** [BFGT08]. **Interpretation** [BGL93, CFG<sup>+</sup>97, DLR16, KRR18, LV94, MSJ94, BDL<sup>+</sup>08, BdlBH99, DGG97, Leu04, SYH07]. **Interpretation-Based** [DLR16]. **Interpretations** [CMB<sup>+</sup>95, HY91, SJ03]. **Interpreters** [LR13, CEG07]. **Interprocedural** [Bur90a, BT93, DP97, HAM<sup>+</sup>05, HS94, HBCC99, HRB90, NR06, SH89, CKT86, DVD07, DGS97, FMOPS11, JLRS10, KK07, RLS<sup>+</sup>01]. **Interprocess** [RS84b]. **Interprocessor** [Ang89]. **intersection** [Dam03]. **Intertask** [FY85]. **Interval** [Bur90a, GNS<sup>+</sup>15, FH04]. **Interval-Based** [Bur90a]. **Introduction** [DeM83, HCW82, Per90, Rep86, Sag07, Wol92]. **Invariant** [BKB80]. **Invariants** [Cla80, GEGP17]. **Irreducible** [Hav97, UM02]. **irregular** [YF98]. **Irrelevant** [GP81]. **Iso** [LBN17]. **Iso-Recursive** [LBN17]. **Isolation** [Wha94]. **Isomorph** [JJD98]. **Isomorph-free** [JJD98]. **Issue** [Ano18, Sag07]. **Issues** [BO94]. **Iterated** [GA96]. **Iteration** [Cam89, MOSS96, GS11, JLF02, Qia00]. **Iterative** [Ans87, Par90, DR05, JNGG10, LS04]. **Jade** [RL98]. **Jam** [ALZ03]. **Java** [AFF06, ALZ03, AAD<sup>+</sup>07, BH05a, Bla03, BALP06, CGS<sup>+</sup>03, CMS03, CSCM00, FFLQ08, FM99, GPF08, IPW01, KKN06, KGMO04, KN06, KR01, LST02, LP06, LS08, Loc13, MVV<sup>+</sup>01, MME<sup>+</sup>10, MFRW09, MMG00, NR06, OKN06, Qia00, SLC03, SMP10, SA99, SYK<sup>+</sup>05, TSL<sup>+</sup>02, WR08]. **Java-like** [KN06]. **JavaCOP** [MME<sup>+</sup>10]. **JavaGI** [WT11]. **join** [WKD04]. **JR** [KGMO04]. **Jump** [LS80, RS84a]. **Just** [DLR16, SYK<sup>+</sup>05]. **Just-in-Time** [DLR16, SYK<sup>+</sup>05]. **JVM** [HO07]. **KaffeOS** [BH05a]. **Kaiser** [Tic88]. **Kernels**

[BCD<sup>+</sup>15, ATD08]. **Keys** [PB80]. **Kilbury** [Lei90]. **Kitsune** [HSS<sup>+</sup>14]. **Kleene** [Koz97]. **Knot** [MC82a]. **knowledge** [GLMM05].

**labels** [Sto04]. **Laboratory** [Bor81]. **LaLonde** [Hen83, LaL83]. **LALR** [DP82, KM81, PCC85]. **Lambda** [Geo84, Gom92, NN86, PS08]. **Laminar** [PBR<sup>+</sup>15]. **Lampport** [Ang89, Pet83b].

**Language** [ACPP91, AOC<sup>+</sup>88, Ano18, ABPS98, BS86, BPP16, BO94, Bor81, BC91, DVLM15, Fat82, Fea87, FFF<sup>+</sup>18, GSS<sup>+</sup>18, Gud92, Hal85, HSG17, JMSY92, JPP91, Kai89, McG82, Per79, PPS79, RTD83, RCS93, Spo86, SNS<sup>+</sup>14, Tur84, Wet82, Win87, YS91, YB87, dJKVS12, van88, Bou05, BSvGF03, CFP<sup>+</sup>04, DWWW08, DF98, FM99, Gro06, HBJ98, KN06, LP99, MF09, MWCG99, PPT08, PHEK99, Tra08, VHKO02, HCW82, YB88]. **Language-Based** [Kai89, RTD83]. **Languages** [Ano18, AR84, AD98, Bar81, BL94b, Blo94, BM94, BWP87, CDFP89, Dug99, Fos96, FL91, HU96, Lee86, LR19, MSM<sup>+</sup>16, Mur91, Ryu16, TK94, AAR<sup>+</sup>10, ACM11, DHM00, GW99, RS97, Rhi03, SRW98, SKS11, SP97, SWU10, Wol92]. **Larch** [Win87]. **Large** [GLR83, MK94, MH86, WCW90, WCW91]. **Lattice** [AKBLN89, MMR95, FH04]. **Lauer** [GM81]. **Layout** [KK98, LVV<sup>+</sup>83, GPWZ08, KF00]. **Lazy** [ABM93, FKW00, HKR94, Hud91, TCVB14, Chi05]. **LCF** [Sok87]. **lead** [SS05a]. **Leader** [Hua93, KKM90]. **leak** [HDH02]. **learned** [VHM<sup>+</sup>01]. **Learning** [CGJ<sup>+</sup>97a, HOYY18]. **Least** [AB81, Bac84]. **Least-Cost** [AB81, Bac84]. **Left** [FKW98]. **Left-Linear** [FKW98]. **legacy** [NCH<sup>+</sup>05]. **length** [SMP10]. **Lessons** [URJ18, VHM<sup>+</sup>01]. **Let** [LY98]. **Let-Polymorphic** [LY98]. **Level** [Cam89, Fat82, GP95, YBL16, CMS03, VWJB10]. **Lexical** [HKR92]. **libraries** [Dug02]. **LIFE** [AKP94]. **lifetime** [HBM<sup>+</sup>06]. **Lightweight** [SW97b]. **Like** [Hua90, KN06]. **Limitations** [CP17]. **Linchpin** [BGH<sup>+</sup>13]. **Linda** [Gel85]. **Line** [Bal94]. **Linear** [BL94b, FKW98, PS99, RS84a, YR94, BKRW98, BKRW05, FMoPS11, KBC<sup>+</sup>99, Ram99, Rep98, RM10]. **Linear-Time** [YR94, BKRW98, BKRW05]. **Linearity** [KPT99]. **Linearizability** [HW90, DSW11]. **Linguistic** [LS83, Wei90, FGM<sup>+</sup>07a]. **Link** [DDD05]. **Link-time** [DDD05]. **Linking** [QL91, Dug02]. **LIPS** [CDFP89]. **LISF** [GCRN11]. **LISP** [Mul92, Pip97, SH89, Wat83]. **List** [BC79, HIT97, Kau84, Sij89]. **listing** [MDJ05]. **Literature** [Oss83]. **Live** [MWB94]. **Live-Structure** [MWB94]. **Liveness** [ACW90, GC86, OL82, RY88, HDH02]. **LL** [BF87]. **Load** [KPF95]. **Loaded** [BG89a]. **Local** [BDFZ09, CBDGF95, PT00, TSBRO8, Wei89, Dam03, San96]. **Locality** [BAC16, MCT96, VALG05, ZSD09]. **Locally** [AB81, Bac84, Min84]. **locating** [JNGG10]. **Locator** [ZMVPJ17]. **Lock** [GEGP17, KS10]. **Lock-Free** [GEGP17]. **lock-freedom** [KS10]. **locking** [AFF06]. **LOCKSMITH** [PFH11]. **Logic** [AS89, AFV98, Apt81, BGL93, BL87, BCD90, BDJ13, BMPT94, CS04, CES86, CFM94, DW89, Deb89, DL93, Deb95, DJP<sup>+</sup>16, JPP91, Kar84, LS84, Lam94, MW84, MSJ94, MMG92, SS98, Sok87, TK94, TB95, BBTS07, BMR01, BCG<sup>+</sup>07, BdIBH99, CU08, CG86, CSS99, DDV99, DPPR00, GHB<sup>+</sup>96, GW99, HVB<sup>+</sup>99, HPMS00, KWL09, LMD98, Leu04, PM06, RKRR04, SRW02, Yin11, dHB<sup>+</sup>96]. **Logical** [BNN18, GGL15, GS98, TY18, RSL10, Tar07]. **Look** [DP82]. **Look-Ahead** [DP82]. **Lookahead** [KM81, MF88]. **Loop** [BAC16, CS87, MCT96, Sit79, RKS07]. **Loops** [BAGM12, Boo82, CK94, DB85, FTJ95, Hav97, Wat91, Ano02b, LS04,

LSLR05, Ram99, RDG08, SGL96, UM02]. **low** [CSCM00]. **low-end** [CSCM00]. **Lower** [PW94]. **LR** [ADGM91, BL94b, BF87, CPRT02, DMM88, Jef03, JP17, KC01, LaL81, LaL84, SS82, ST00b]. **LR-based** [KC01].

**M** [Bur91, Mul92]. **M-LISP** [Mul92].

**Machine** [CGJ+97a, Cat80, GNS+15, Gie83, Han94, LR13, ML80, RF97, SS98, Wal92, Zav85, Ano02a, CEG07, CF04, HK07, KN06, Oho07]. **machine-checked** [KN06]. **Machine-Code** [LR13]. **Machine-Independent** [ML80]. **Machine-Specific** [Gie83]. **machinery** [FKW00]. **Machines** [ACW90, Bee94, CGST95, GC86, KK98, PS93, PP91, Rob79, RCRH95, AY01, AG04, ABE+05, ABS09, TSY00, Pur91]. **Madsen** [Ell82, SM82]. **Magma2** [Tur84]. **Maintenance** [GKL94]. **Making** [JC97, Loc13]. **malware** [PCJD08].

**Management** [JP81, Mur91, van88, BP12, WCM00, Zho96]. **Managing** [Bob80]. **Manifest** [SIG17]. **manipulating** [YS10]. **Manipulation** [DVL15]. **many** [AE98]. **massive** [BHK07]. **Massively** [CGST95]. **Matching** [AC96, AGT89, CP95, KPS92, ADR06, Van06]. **Matching-Based** [CP95]. **materializations** [RMH06]. **Mathematical** [Ban11, Hes88, LW93]. **MATLAB** [DP99]. **MATLAB(R)** [JB06]. **Matrix** [FTJ95]. **Matrix-Vector** [FTJ95]. **Maximal** [BG89b, Rep98]. **Maximal-munch** [Rep98]. **Maximization** [GLO88]. **Maximum** [Kna90]. **May** [Hor97]. **May-Alias** [Hor97]. **MCALIB** [FL15]. **Measuring** [FL15]. **Mechanically** [DSW11]. **Mechanism** [CO90, YB85, DNS+06]. **Mechanisms** [Rei83, HMS06]. **Mechanizing** [Pau01]. **Median** [Com80]. **Medians** [KRS84]. **megaflops** [MMG00]. **member** [KF00].

**Memory** [AMT14, CK94, Cha93, KZC15, KK98, KRS88, MSM+16, Mis86, RCRH95, SS88, ABHI11, BP12, GMM99, GW99, JNGG10, KF00, LK02, Loc13, QR00, RR05, TSY00, TP04, VBLG04, WCM00, MMM+07]. **memory-efficient** [TP04]. **memory-hierarchy** [KF00]. **Merge** [Ber94]. **Merlin** [HBM+06]. **Message** [CSW06, SS84, Gor04]. **Messages** [BB79, Jef03]. **meta** [Tra08]. **meta-programming** [Tra08]. **Metalevel** [Jag94]. **Metaprogramming** [CI84]. **Method** [BNN18, BCD90, BF87, HL82, Jon83, Loe87, JJD98]. **Methodology** [Ban87, Her93, Sku95]. **Methods** [DAW88, KM81]. **METRIC** [MMM+07]. **Mezzo** [BPP16]. **Microanalysis** [HCHP92]. **Microcode** [MV87]. **Middle** [BDP14]. **Middle-End** [BDP14]. **Might** [Bee94]. **migration** [Piq96]. **Minimal** [FKW98, IPW01]. **Minimization** [RS84a]. **minimizing** [RMH06]. **Minimum** [GHS83]. **Minimum-Weight** [GHS83]. **Mining** [AMT14]. **Misled** [Cop94]. **miss** [GMM99]. **Mixin** [HL05, RD13]. **mixins** [ALZ03]. **ML** [Blu99, HM93, HT04, PS03, RD13, Spo86].

**Mobile** [LS03, VHB+97, BCC04, KS10, SWU10]. **mod** [Bou92]. **mode** [PS08, ZP10]. **Model** [AY01, Ang89, BK11, BL87, BGP99, CGL94, DLR16, ES97, GS98, GG85, GL94, Han81a, HW82, Hol87, KH92, MSM+16, MMG92, ND16, VSS94, ACM11, AM01, AE01, JJD98, JPS+08, KN06, KV00, Loc13, NP08, QR00, SG04, VWJB10, VALG05, YMW97]. **Model-Checking** [ES97, BGP99]. **Modeling** [AF84]. **Modelling** [AMT14]. **Models** [GJ93, KZC15]. **Modern** [BCF04, RAB+07]. **Modes** [Deb89]. **modest** [LS08]. **Modification** [Lei90, RLS+01]. **Modula** [EO80]. **Modular** [AG04, BMPT94, CDK+18, GL94, JBK18, Jag94, KKM90, LN15, MBC04, Wei89, YB85, dJKVS12, KV00, MFRW09, MOS07b].

**modularity** [BA99]. **Module** [PAS<sup>+</sup>15, RD13]. **Modules** [CL95, HW82, Lam83, HL05]. **monadic** [MH04]. **Monitors** [BLH12, BH05b]. **Monolingual** [HK85]. **Monte** [FL15]. **Morel** [Dha91, DS88, Sor89]. **Morphing** [HS11]. **Morris** [Wis79]. **Mostly** [YF09, BBYG<sup>+</sup>05]. **Motion** [KRS94, Hai98]. **MPI** [FJK<sup>+</sup>17, TSY00]. **Multi** [Ano18, GSS<sup>+</sup>18, MF09]. **Multi-Language** [Ano18, GSS<sup>+</sup>18, MF09]. **Multialgebraic** [WM95]. **multidimensional** [RDG08]. **MultiJava** [CMLC06]. **Multilisp** [Hal85]. **multimethod** [DAS98]. **Multimethods** [CL95]. **Multiparty** [JS94]. **Multiple** [ASF17, NSTD<sup>+</sup>15]. **Multiply** [FTJ95]. **Multiprocess** [Lam79, Lam80]. **Multiprocessing** [ABR81]. **Multiprocessor** [GP81]. **Multiprocessors** [Cha93, KRS88]. **Multisource** [MMR95]. **Multithreaded** [EGP14, JBK18, JSB<sup>+</sup>12, KKW14, NR06]. **Multivariate** [HAH12]. **Multiway** [Cha87, Van96a, Van96b]. **munch** [Rep98]. **Mutandis** [SHB<sup>+</sup>07]. **Mutatis** [SHB<sup>+</sup>07]. **Mutual** [LH91, ABHI11]. **Mutual-Exclusion** [LH91]. **Myths** [Gor04].

**n** [CKT86]. **Naming** [BDP93]. **Natural** [GZ04, dJKVS12, ACE96]. **Neighborhood** [BG89a]. **Neighborhood-Constrained** [BG89a]. **Nested** [Cha93, NB99, ACM11]. **Nesting** [Hav97, Boy10]. **Nests** [BAC16]. **Net** [JTM98]. **Network** [WGS92, WGS93]. **Networks** [CGJ97b, GC86, KRS84, dBB85]. **Newtonian** [RTP17]. **Nicholson** [FA93]. **No** [Ano18]. **node** [JC97, UM02]. **Nodes** [CF95, Han81a]. **Nomadic** [SWU10]. **Nominal** [CU08]. **Non** [DL18, LLK<sup>+</sup>17, Mye18, BS88]. **non-** [BS88]. **Non-Deterministic** [Mye18, DL18]. **Non-Statistical** [LLK<sup>+</sup>17]. **Noncanonical** [Tai79]. **Noncorrecting** [Ric85]. **Nondeterminate** [TK94].

**Nondeterminism** [Ber80, Hes88, WM95]. **Nondeterministic** [QG95, MT08]. **Noninterfering** [HPR89]. **nonnumerical** [ME97]. **Nonprocedural** [PPS79]. **nonrectangular** [JLF02]. **nonscalars** [CRN<sup>+</sup>08]. **Nonsequentiality** [Bar81]. **Nonstrict** [Blo94]. **Nontermination** [PM06]. **normal** [LMD98]. **Normalize** [CRN<sup>+</sup>08]. **norms** [BCG<sup>+</sup>07]. **Notation** [Rem81, Wil82b]. **Note** [Com80, CM93, MS88, WST85, Coh85, Pal11b, YK97]. **Notes** [Sku95]. **Nothing** [BDH<sup>+</sup>16]. **Notion** [LW94]. **NP** [Hor97]. **NP-Hard** [Hor97]. **NQLALR** [BS88]. **nulled** [SJ06]. **Numbers** [GLR83]. **numeric** [Hau96].

**O** [ABPS98, Car95]. **Object** [DF84, HU96, KH92, Ryu16, WCW90, WCW91, BSvGF03, DMM01, DDDCG02, FM99, GPWZ08, HBM<sup>+</sup>06, JPS<sup>+</sup>08, LPSO04, Piq96, WJS<sup>+</sup>00]. **Object-Based** [KH92]. **Object-Oriented** [HU96, Ryu16, BSvGF03, DMM01, JPS<sup>+</sup>08, WJS<sup>+</sup>00]. **Objects** [AM85, CJK95, HF87, HW90, Her93, SM89, VHB<sup>+</sup>97, Wal80, Wal81, Win84, GPV07, HBJ98, KF00, Sto04, WJS<sup>+</sup>00, Sku95]. **obligations** [DSW11]. **Observability** [Gaz83]. **Observations** [Sha82]. **Occur** [AP94]. **Occur-Check-Free** [AP94]. **Off** [SBB<sup>+</sup>19]. **Offline** [CG04, GJ05]. **Old** [AL94]. **Old-Fashioned** [AL94]. **On-Line** [Bal94]. **On-The-Fly** [CF95, BA84, URJ18, LP06, PBK<sup>+</sup>07]. **One** [Bak82, BG89b, VHM<sup>+</sup>01]. **One-Pass** [Bak82]. **one-way** [VHM<sup>+</sup>01]. **online** [CG04, HVDH07]. **only** [PZJ05]. **Opacity** [QG95]. **Operating** [HM84, BCP08]. **Operational** [BLRS12, Han94, MF09]. **Operations** [AKBLN89, CK94, Lee86, LS79]. **Operator** [CSV01, Hen83, LdR81]. **Operators** [Ive79, She91]. **Optimal** [BOV85, CGST95, FK85, JCMM19, KRS94, Lar95, PB97,

Hai98, JNZ06, KSV96, MSRR00].  
**optimality** [CP96]. **Optimally** [BL94a].  
**Optimistic** [PM04]. **Optimization**  
[Bee94, BBC16, Blo94, BAC16, BT93, DF84,  
DP97, DDH84, Dha91, DS88, FOW87, HG83,  
HOYY18, Pem83, PP94, SS82, Sor89, TvS82,  
Web95, Ass00, BHK07, KBC<sup>+</sup>99, KF03,  
PE08, TVA07, ZP10, CG95, LaL84, OKN06].  
**Optimizations** [CC95, JSB<sup>+</sup>12, CGS<sup>+</sup>03,  
CKT86, GMP<sup>+</sup>00, SYK<sup>+</sup>05]. **optimize**  
[DMM01, VBLG04]. **Optimized**  
[CM93, Cop94, Hen82, WST85, DS98, UM02].  
**Optimizer** [DF80, FSS83, DF81].  
**Optimizers** [Gie83]. **Optimizing**  
[CEG07, KMM<sup>+</sup>98, LSLR05, ML80, NSZS13,  
QR00, BGKR09]. **Or-Parallel** [GJ93].  
**orchestration** [PE08]. **Order** [AC94, AD98,  
Bur84, CJK95, DP97, DJP<sup>+</sup>16, JPP91, JS94,  
SS98, BBTS07, DF11, SKS11, SP97].  
**ordering** [GS99]. **Organization** [Han81a].  
**Oriented**  
[Bor81, Dar90, Ell82, FFF<sup>+</sup>18, GTWA14,  
GKL94, GP81, HU96, Ryu16, SM81, Tur84,  
YB87, YB88, BSvGF03, DWWW08,  
DMM01, JPS<sup>+</sup>08, WKD04, WP10, WJS<sup>+</sup>00].  
**origins** [San09]. **OSI** [CDFP89]. **Output**  
[Ber80, BS83]. **overflow** [KOE<sup>+</sup>06].  
**overhead** [BP12, SS96]. **overlays** [SWU10].  
**Overload** [Bak82]. **overloading** [SS05b].  
**Overview** [AOC<sup>+</sup>88]. **ownership**  
[DDM11, SS96]. **Oz** [VHB<sup>+</sup>97].

**Package** [Hil88]. **Paper** [GM81]. **Parallel**  
[ANP89, BOV85, BO94, BE13, Cha93,  
CGST95, CMN91, CL94, DS83, Fos96,  
GLO88, GJ93, GPA<sup>+</sup>01, HCHP92, HIT97,  
JF81, Kna90, LHR19, Mis94, NSZS13, OA88,  
Rao94, SS88, BBYG<sup>+</sup>05, CG86, GB99,  
HBJ98, KSV96, LK02, MVV<sup>+</sup>01, RR03,  
YF98]. **Parallelism** [Bur84, GP95, KSV96,  
NB99, PW94, TCVB14, YBL16].  
**Parallelization**  
[BAC16, BDJ13, PP94, BdIBH99, HAM<sup>+</sup>05].  
**Parallelizing** [HP96, ME97, RD97].

**Parameter** [Gaz83, Zho96].  
**Parameterization** [TWW82].  
**Parameterized**  
[CGJ97b, CK93, Gaz83, RKSr12].  
**Parametric**  
[HFC09, MMG92, SRW02, IV06].  
**Parenthesis** [AS80]. **Parlog** [CG86].  
**Parsed** [Wad90]. **Parser**  
[DDH84, JP17, LaL84, SS82]. **Parsers**  
[BN99, LaL81, MYD95, PK80, CPRT02,  
SJ06, ST00b]. **Parsing**  
[CH87, DMM88, Fis80, GM79, Lar95, RH87,  
Sam80, WG98, KC01]. **Part**  
[LaL81, PA85, PA86a, PA86b, Apt81].  
**Partial** [AFV98, CP17, CK93, DS88,  
Gom92, KCL<sup>+</sup>99, Sor89, ADR06, BP12,  
CG04, GJ05, LMD98, Leu04, ST00b].  
**Partially** [BLH12, Kob98, RRSY08].  
**partially-flow-sensitive** [RRSY08].  
**partitioning** [RM07, YF09]. **Parts** [Son87].  
**Pascal** [LS79]. **Pass** [Bak82, BM94].  
**Passing** [BDM15, Gaz83, SS84, CSW06,  
Gor04, Zho96]. **Passive** [AKP94]. **past**  
[PM09]. **Path** [Blo94, CIJGP18, SMP10].  
**path-length** [SMP10]. **Patient** [FFF<sup>+</sup>18].  
**Patient-Oriented** [FFF<sup>+</sup>18]. **Pattern**  
[EGP14, ADR06, Jay04, MTSS09, Van06].  
**Pattern-Based** [EGP14]. **Patterns** [GH80].  
**PDS** [Han81b]. **PEAK** [PE08]. **Peephole**  
[DF80, DF81, Pem83, TvS82]. **PegaSys**  
[MH86]. **Pennello** [Sag86]. **Perfect** [Duc08].  
**Performance** [HU96, MSM<sup>+</sup>16, PB80,  
URJ18, KF00, PE08]. **Performed**  
[Coh91, Wir91]. **Permission**  
[BPP16, SNS<sup>+</sup>14]. **Permission-Based**  
[BPP16, SNS<sup>+</sup>14]. **permissions** [Boy10].  
**Persistent** [AM85]. **Petri** [JTM98].  
**Petri-Net-Based** [JTM98]. **Phases**  
[Bar81]. **Philosopher** [CM84].  
**Philosophers** [MS88]. **pi** [HR02, KPT99].  
**pi-calculus** [HR02, KPT99]. **pict** [SWU10].  
**Pictures** [MH86]. **Pipeline** [HG83].  
**Pipelined** [BG89b, LPP01, RDG08].  
**pipelining** [ME97]. **pitfalls** [Mon08]. **PL**



[CD79, CZ84, FFF<sup>+</sup>18]. **PL/CS** [CD79]. **PL/CV3** [CZ84]. **place** [GW99]. **Placement** [DP93, GS99, vHK00]. **Platform** [TCP<sup>+</sup>17]. **pluggable** [MME<sup>+</sup>10]. **Pluto** [BAC16]. **Point** [CK94, Fat82, SBB<sup>+</sup>19, GJ05, Hau96, Mon08]. **Pointer** [LHR19, LS79, RR03, HBCC99, HVDH07, PKH07, RLS<sup>+</sup>01]. **Pointers** [SS13, RR05]. **points** [WKD04]. **Pointwise** [VSS94]. **Policies** [NBG13, BDFZ09, FGM07b]. **Policy** [Kro82, Kro83, Kro84, Kro85, Kro86, Kro87, Kro88, Kro89, Kro90, Kro91, Kro92, UJ92, BFG08]. **policy-based** [BFG08]. **Polyhedra** [GVC15]. **Polyhedral** [GVC15, QR00]. **POLYLITH** [Pur94]. **Polymorphic** [BMR05, Dug99, HT04, Hen93, KTU93, LO94, LY98, Oho95, SIG17, SV96, WJ98, BSvGF03, DWWW08]. **Polymorphism** [Bur90b, MDCB91, HFC09]. **polynomial** [BAL07]. **PolyTOIL** [BSvGF03]. **polyvariance** [LMD98]. **Polyvariant** [AC94, WJ98]. **POP** [FFF<sup>+</sup>18]. **POP-PL** [FFF<sup>+</sup>18]. **Portable** [DDH84, Han81b, HK07]. **Possibly** [JP17]. **Postfix** [DS83]. **Postpass** [HG83]. **Power** [TWW82, SSD09]. **Powerlist** [Mis94]. **PPMexe** [DKV07]. **PQ** [GZ05]. **PQ-encoding** [GZ05]. **Practical** [AD98, BAC16, BF87, CP17, Dha91, LR19, ND16, PBR<sup>+</sup>15, SS13, TSL<sup>+</sup>02, WC97, Bou05, DR05, DVD07, DGS97, JNZ06, PFH11]. **Practice** [KRS94, Ryu16, Bla03, DRSS96]. **Pragmatic** [BDH<sup>+</sup>16]. **Pragmatics** [Gom92]. **Pre** [OLH<sup>+</sup>16]. **Pre-Analysis** [OLH<sup>+</sup>16]. **Precedence** [Hen83, LdR81]. **Precise** [CDK<sup>+</sup>18, FJK<sup>+</sup>17, Hor97, PHP02]. **precision** [ZGZ05]. **Precondition** [Boo82]. **Predicate** [Lam90, BMR05, Bou05, Bou06, MFRW09, MMS96, PR07]. **Predicates** [CBDGF95, Lam88]. **predictable** [SHB<sup>+</sup>07, HK07]. **Prediction** [CGJ<sup>+</sup>97a, CEG07, YS99]. **Predictive** [FJK<sup>+</sup>17]. **Prepaging** [FK85]. **Prescription** [FFF<sup>+</sup>18]. **Presence** [AWW95, CF94, KTU93]. **preserving** [DHS09, LST02]. **pretenuring** [BHM<sup>+</sup>07]. **Pretty** [Chi05]. **Prettyprinter** [Wat83]. **Prettyprinting** [Opp80]. **Primitive** [App15]. **principals** [TZ07]. **Principles** [Bou88, DRSS96]. **printing** [Chi05]. **Priority** [CH90, Fid93]. **Priority-Based** [CH90]. **Privacy** [BKOZB13]. **Privileges** [Min84]. **Probabilistic** [BKOZB13, CFNH18, HSP83, MMS96, OGJ<sup>+</sup>18, Rao94, BH99, PPT08]. **Problem** [ADG<sup>+</sup>94, CM84, DS88, Gho93, LSP82, MS88, Pet82, Pet83b, PB97, Sor89, FGM<sup>+</sup>07a, Wu04]. **Problems** [Bac84, CFNH18, DP93, MMR95, SRW98]. **Procedural** [HF87, Lin93, VSS94]. **Procedure** [CDK<sup>+</sup>18, GS99, GL80]. **Procedure-Modular** [CDK<sup>+</sup>18]. **Procedures** [AM85, Kat84, NO79]. **Process** [Kob98, vPS81, WP10]. **process-oriented** [WP10]. **Processes** [AFdR80, Bag89, FDY12, HM84, KS79, MW84, MC82b, Oss83, RY88, Sou84, TY18, dBB85, AE98, KS10, Ber80, Moi83]. **Processing** [GH80, HSG17, Rei83]. **Processor** [BG89b, Bud84]. **Processors** [GLR83, Per79, LPP01, ZP10]. **Product** [RTP17]. **Production** [Wad90]. **Productivity** [Sij89]. **Profile** [BHM<sup>+</sup>07, YUW02]. **Profile-based** [BHM<sup>+</sup>07]. **Profiling** [ASAVF19, BL94a, SP97]. **Program** [Bal94, Bar85, BAL07, BKB80, Col84, DKKL18, Der85, Fea82, FOW87, FT94, FL91, HSP83, HKR94, Jen97, KKW14, KWL09, Lam83, Lam88, LFF14, MS83, MW80, Mis81, Nie85, PP94, PPS79, Rem81, RTP17, TSY00, Wat94, Wey83, ZSD09, Ass00, DDD05, GZ04, KF03, LH08, NS13, Pau01, RAB<sup>+</sup>07, SLC03, WZ07, WN08, YF09, DKV07]. **Programming** [AGT89, Ano18, AR84, ABPS98, BS86, BPP16, BL87, Bir84, Bor81, BMPT94, BWP87, BCEM15, CHY12, CL94, Dar90, DFR15, DGL<sup>+</sup>79, Dug99, FFF<sup>+</sup>18,

Fos96, FL15, GTWA14, Har80, HK85, HO82, Kai89, KH92, Lee86, LVV<sup>+</sup>83, MK94, Mye90, OGJ<sup>+</sup>18, Pet83b, RCS93, SS84, SNS<sup>+</sup>14, SZBH86, TK94, ABH06, BMR01, Bou06, BdlBH99, CU08, CG86, CKT86, DWWW08, DPPR00, GW99, HBJ98, JPS<sup>+</sup>08, KGMO04, MVV<sup>+</sup>01, MTSS09, MQ05, Tra08, VWJB10, WKD04, WJS<sup>+</sup>00, Bir85, SWU10].

**Programming-in-the-Large** [MK94].

### Programs

[AWW95, AK87, AFV98, AR80, AP94, AC94, BL94a, Ban87, BGL93, BC85a, BC85b, Ber94, BCD90, BE94, BE13, BEF<sup>+</sup>16, CR87, CB80, CM86a, Cha93, CFNH18, CEW14, CMN91, Cla80, CFM94, CS87, DL18, DGMP97, DW89, Deb89, DL93, Deb95, DP97, Dil90, EGP14, FJK<sup>+</sup>17, GG85, GM81, Har80, HCHP92, HPR89, How80, HIT97, ISY88, JBK18, JW17, Jon83, JF81, Kna90, Lam79, LS83, MSJ94, MH86, Mye18, NSZS13, OA88, OL82, PS92, QL91, Rao94, SS98, Sch82, SSS81, SS88, Ven95, Wad90, Web95, Wil82a, AE01, AAE04, BCG<sup>+</sup>07, CSW06, CSS99, DP99, DDV99, DS98, DMM01, EGM01, GM12, GHB<sup>+</sup>96, GH97, GPA<sup>+</sup>01, Hau96, HPMS00, JPS<sup>+</sup>08, KSV96, LMD98, Leu04, LS09, MF09, NR06, PM06, RKRR04, RR03, San96, VJB12, WM12, YS10].

**programs** [Yin11, dHB<sup>+</sup>96, Bur84, Lam80].

### PROLOG

[LV94, AP94, AB94, BC91, CH87, FA93, GPA<sup>+</sup>01, MWB94, NF89, Zho96].

**Promotion** [Bir84, Bir85]. **Proof**

[AFdR80, BDJ13, FRW90, GL80, Moi83, Sag86, SS84, Sok87, WGS92, WGS93, AM01, DSW11, Oho07]. **proof-carrying** [AM01].

**Proof-Directed** [BDJ13]. **Proofs**

[Apt86, BC85a, CM86b, JW17, LY98, Oss83, GRSK<sup>+</sup>11]. **Propagation** [SR95, WZ91, Apt00, CP96, SS05a, SS08, SS09].

### Properties

[ACW90, AS89, CIJGP18, Kar84, LM18, OL82, RY88, TB95, Wei89, YS10].

**Proposed** [Fat82]. **prossima** [MP10b].

**Protected** [PAS<sup>+</sup>15, WJS<sup>+</sup>00]. **Protocol**

[SL92, YS97]. **Protocols**

[MB83, BFGT08, SS96]. **Prototype** [WCW90, WCW91]. **Prototypes** [HW82].

**provably** [GB99]. **provenly** [AAD<sup>+</sup>07].

**Proving** [DGMP97, GC86, Hen86, Kar84, Lam79, Lam80, OL82]. **Pruning** [BN99].

**PSG** [BS86]. **publish** [Eug07].

**publish/subscribe** [Eug07]. **Pure**

[BNN18, HU96, Pip97, Tar07]. **Purpose** [App94b, HSS<sup>+</sup>14, Spo86].

**qualifiers** [FJKA06]. **Qualitative**

[CFNH18]. **Quantification** [Vol91, Bur91].

**Quantified** [Gro06, STS03]. **Quantitative**

[CFNH18]. **Quantum**

[FDY12, BH99, Yin11]. **Queries** [Bal94].

**Queuing** [BB79]. **Quiescence** [CM86a].

**R** [AW82, CKT86, KMM<sup>+</sup>98]. **R.** [Tic88].

**race** [AFF06, PFH11]. **Races** [KZC15].

**Random** [AS80]. **Range** [CG95]. **Rank**

[Dam03]. **Ranking** [Lee09]. **Ratio** [CK94].

**rational** [GS11]. **rationale** [CMLC06].

**Reach** [FKW98]. **Reachability** [NS13].

**Reactive** [DFR15, AG04, DGG97]. **read**

[AE01, PZJ05]. **read-only** [PZJ05].

**read/write** [AE01]. **Readable** [Spo86].

**Reading** [Pet83a]. **Real** [AL94, MMG92,

RS84b, GH97, HK07, LS98, YMW97].

**Real-Time** [MMG92, RS84b, GH97, HK07,

LS98, YMW97]. **realities** [Gor04]. **Reals**

[DK17]. **Reasoning**

[BKOZB13, BLRS12, BDP93, BP82, BH99,

CB80, Lam88, LN15, Rao94, TSBRO8].

**receive** [Gor04]. **receptive** [ABL03].

**Recipe** [AL94]. **reclassification**

[DDDCG02]. **recognition** [ATD08].

**Recognizer** [GHR80]. **Recognizing**

[BL94b]. **Recombination** [Kau84].

**Recombination-Delaying** [Kau84].

**Recompilation** [BT93, SK88, Tic86, Tic88].

**Reconciling** [HU96]. **Reconstruction**

[YR94]. **Record** [LS79, Oho95]. **Recovery**

- [AB81, ACS84, Bac84, BF87, PK80, Ric85, dJKVS12]. **recurrences** [VJB12].
- Recursion**  
[AK82, Col84, Hen93, KTU93, Mis94, YK97].
- Recursive**  
[AC93, AK82, Ban87, Coh83, Coh85, LBN17, Sij89, ABE<sup>+</sup>05, AM01, CF04, Dug02, Pal98].
- Recursively** [BE13]. **Reduce**  
[BN99, MYD95, BALP06, KOE<sup>+</sup>06, SS96].  
**reduced** [SG04]. **Reducible** [Hav97, JC97].
- Reduction** [Bee94, Bur84, FRW90, Geo84, KLS92, Mul92, NN86, CSV01].
- Redundancies** [DS88, Sor89]. **redundancy**  
[KCL<sup>+</sup>99]. **Redundant** [Coh83, Coh85].
- Reentrant** [Bob80]. **Reexamination**  
[CG95]. **Refactoring** [Ste18, TFK<sup>+</sup>11].
- Reference** [Bob80, Wis79, KSK07, KOE<sup>+</sup>06, LP06, MDJ05].
- reference-counting** [LP06]. **References**  
[Han92, TGT18, SV96]. **Referencing**  
[LS81]. **Referential** [QG95]. **Refinement**  
[BBF<sup>+</sup>11, BKL<sup>+</sup>97, BCEM15, CM86a, DGL<sup>+</sup>79, GEGP17, JLP<sup>+</sup>14, MRG88, SL92, AG04, QG95]. **reflecting** [HS11]. **reflection**  
[SW97a]. **Region** [TB98, SYN06].
- region-based** [SYN06]. **regions** [RR05].
- Register** [BCT94, CH90, GSO94, JLF02, RDG08, SH89, GA96, HCS10, LGAT00, PM04, PS99, PF96, TP04]. **registers**  
[ZP07]. **Regular** [CC97, HVP05, LaL81].
- Relation** [LBN17, MTG80]. **Relational**  
[BKOZB13, CB80, GS98, TLHL11, JJD98, JLRS10]. **Relations** [ELS<sup>+</sup>14, HT86, LH08].
- Relationship** [BS88]. **Reliability**  
[LM18, WN08]. **Reliably** [TCP<sup>+</sup>17]. **Rely**  
[GEGP17, LFF14]. **Rely-Guarantee**  
[GEGP17]. **Rely-Guarantee-Based**  
[LFF14]. **Remembrances** [PM09]. **Remote**  
[BCP08, SG90]. **Removal** [AK82].
- Rendezvous** [Cha87]. **Renoise**  
[Dha91, DS88, Sor89]. **Reoptimization**  
[PS92]. **reordering** [YUW02]. **Repair**  
[BN99, MF88, MYD95, KC01]. **Repairing**  
[CPRT02]. **Replacement** [MM89].
- Replicate** [RB94]. **replication** [RD03].
- Reply**  
[Bur91, Fra81, LaL83, Tan83, Wir91, SM82].
- Representation** [DGL<sup>+</sup>79, Mul92, SM89, Wad90, Wan82, Mil85].
- Representation-Independent** [Mul92].
- Representations**  
[Lam87, RF97, Wal80, Wal81, BGP99].
- reshaping** [ZCG<sup>+</sup>07]. **Resilient** [WL85].
- Resolution** [ABR81, Bak82]. **Resolved**  
[SIG17]. **Resource** [CS95, Cla80, IK05, MQ05, BDFZ09, CEI<sup>+</sup>07, HR02, HAH12].
- Resources** [And81, FLBB89]. **Respect**  
[Gaz83]. **Response** [Tic88].
- Responsiveness** [HU96]. **Restores** [Wis79].
- Result** [TB95]. **Results**  
[Ven95, BGP99, SYYH07]. **Retargetable**  
[DF80, DF81, MV87]. **Retention** [LS81].
- Rethinking** [LHR19]. **retrofitting**  
[NCH<sup>+</sup>05]. **reuse** [DNS<sup>+</sup>06, GW99, ZSD09].
- Reversal** [ACS84]. **Reverse** [PS08].
- Reverse-mode** [PS08]. **Revised** [SIG17].
- Revision** [FM87b]. **revisited**  
[MDJ05, Zho96]. **Revisiting** [DI09].
- Rewrite** [FKW98, Ass00]. **Rewriting**  
[KKSD94, BCM99, DDD05, FKW00, GRSK<sup>+</sup>11, MMM<sup>+</sup>07]. **Right**  
[KS83, LaL81, SJ06]. **Rigorous** [SBB<sup>+</sup>19].
- Rings** [BP89, Hua93]. **RISC** [PS93].
- Rivieres** [Hen83]. **RMI** [MVV<sup>+</sup>01].
- Robust** [LS83]. **Roever** [Moi83]. **role**  
[Apt00]. **Roman** [PB97]. **Round** [SBB<sup>+</sup>19].
- Round-Off** [SBB<sup>+</sup>19]. **Rounding** [FL15].
- Row** [MM89]. **rule** [HQRT02]. **Rules**  
[GL80, JTM98, SS84, LS09, SSD09]. **Run**  
[ISY88, TZ07, GMP<sup>+</sup>00]. **Run-Time**  
[ISY88, TZ07, GMP<sup>+</sup>00]. **Runtime**  
[Ano18, BLH12, BEF<sup>+</sup>16, GSS<sup>+</sup>18, TCVB14, BH05a, TSY00].
- S** [HCW82]. **S/SL** [HCW82]. **Safe**  
[AWW95, Dug02, JW17, AFF06, BSvGF03, LS03, Loc13, NCH<sup>+</sup>05, SA00, ZCG<sup>+</sup>07, MH06, SHB<sup>+</sup>07]. **safe-for-space** [SA00].

**safety** [FF08, YS10]. **same** [SS05a].  
**sampling** [PPT08]. **Santa** [WP10].  
**Sapphire** [URJ18]. **Sather** [MOSS96].  
**Satin** [VWJB10]. **satisfaction** [DF11].  
**satisfiability** [XA07]. **satisfying**  
 [Van96a, Van96b]. **Saturn** [XA07].  
**Scalability** [TCP<sup>+</sup>17]. **Scalable**  
 [FT94, XA07]. **ScalaExtrap** [WM12].  
**Scaling** [TCP<sup>+</sup>17]. **scan** [PS99]. **Scanners**  
 [HKR92]. **Scanning** [GVC15]. **Scavengers**  
 [UJ92]. **Schanuel** [KPS92]. **schedulability**  
 [GH97]. **schedule** [TVA07]. **Scheduler**  
 [TCVB14]. **schedules** [MH04]. **Scheduling**  
 [BG89b, FGL94, KR79, KPF95, LPP01,  
 LJ99, NB99, NSTD<sup>+</sup>15, PS93, TCVB14,  
 Ban11, ME97, YF98]. **schema** [RLS<sup>+</sup>01].  
**Scheme** [Mur91, YR94, IV06, WC97].  
**Schemes** [Son87, TM93]. **Schorr** [BP82].  
**Schwanke** [Tic88]. **Scientific** [How80].  
**Scope** [App94b]. **Scratchpad** [SRM10].  
**Screen** [MM89]. **SDF** [VHKO02]. **Search**  
 [Dar90, BH99, SS05a]. **Searching** [CC97].  
**Section** [Wol92]. **Secure**  
 [BCEM15, PAS<sup>+</sup>15, BBF<sup>+</sup>11, HY07].  
**Securely** [RB94]. **Security**  
 [TGT18, BFGT08, BFG08]. **see** [BR10].  
**Selection** [DF84, SSS81]. **Selective**  
 [Min84, OLH<sup>+</sup>16, ME97]. **Self**  
 [BP89, DHS09, Gho93, Gom92, ABB<sup>+</sup>09].  
**self-adjusting** [ABB<sup>+</sup>09]. **Self-applicable**  
 [Gom92]. **Self-Stabilization**  
 [Gho93, DHS09]. **Self-Stabilizing** [BP89].  
**Semantic**  
 [AAR<sup>+</sup>10, AWW95, GGL15, MH06, HCW82].  
**Semantics**  
 [ABHI11, Ans87, AB94, AW82, BGL93,  
 Ber94, BLRS12, Bou88, Boy10, CPS93, CD79,  
 FA93, GM81, Gud92, Han94, JPP91, Kai89,  
 Mul92, NF89, Set83, Sou84, WM95, Wan82,  
 dBB85, ACE96, BMR01, Bou06, GZ04, MF09,  
 PCJD08, SWU10, SJ03, Tar07, WKD04].  
**Semantics-Based**  
 [BGL93, CPS93, PCJD08].  
**Semantics-Directed** [Han94, Set83].  
**Semaphore** [CR87]. **Semiring** [BMR01].  
**Semiring-based** [BMR01]. **Send** [Gor04].  
**Send-receive** [Gor04]. **Sensitive**  
 [OLH<sup>+</sup>16, PKH07, Ram00, Rep00, RRSY08].  
**Sensitivity** [FL15, KRR18]. **Separating**  
 [DDM11]. **Separation**  
 [BDJ13, DJP<sup>+</sup>16, OYR09, BBTS07].  
**Separators** [GSO94]. **Sequences** [GSW95].  
**Sequent** [ABS09]. **Sequential**  
 [AFdR80, Ber80, GLR83, HM84, KS79,  
 MC82b, Moi83, Sou84]. **Series** [Wat91].  
**Served** [LH91]. **server** [LDM07]. **servers**  
 [BBYG<sup>+</sup>05]. **service** [CMS03]. **Services**  
 [CHY12, RB94, BFG08, CGP09]. **Session**  
 [TY18]. **Session-Based** [TY18]. **Set**  
 [Sha82, FF99]. **set-based** [FF99]. **SETL**  
 [DGL<sup>+</sup>79, FSS83, SSS81]. **Sets**  
 [DP82, DPPR00]. **Setting**  
 [Lin79, Nie85, HL05]. **SHA** [App15].  
**SHA-256** [App15]. **shape**  
 [GCRN11, JLRS10, JB06, SRW98, SRW02].  
**shape-analysis** [SRW98]. **shaping** [HS11].  
**Share** [SS88]. **Shared**  
 [Cha93, FLBB89, KH92, KRS88, Pet83b,  
 Dug02, HBJ98, TSY00, BC91].  
**Shared-Memory** [Cha93, TSY00]. **Sharing**  
 [CSS99, Lam87]. **SHErrLoc** [ZMVPJ17].  
**Shift** [BN99, MYD95]. **Shift-Reduce**  
 [BN99, MYD95]. **Short** [Sag86]. **Should**  
 [LP99]. **Side**  
 [Boe85, KWL09, RLS<sup>+</sup>01, TA08b].  
**side-effect** [RLS<sup>+</sup>01]. **sign** [KKN06]. **signal**  
 [BH05b]. **Signatures** [BR97]. **Signedness**  
 [GNS<sup>+</sup>15]. **similar** [AE98]. **Simple**  
 [Boe85, GLO88, JP17, SH89]. **simpler**  
 [BKRW98, BKRW05]. **Simplification**  
 [NO79]. **Simula** [Lan80]. **Simulating**  
 [KKSD94]. **Simulation**  
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