A Complete Bibliography of Publications in *ACM Transactions on Programming Languages and Systems (TOPLAS)*

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(k) [ADGM91, BL94b, KM81]. 2 [Dam03]. 3 [SRW02]. $^+$ [Han81a]. ^{TM} [Bla03]. / [AW82]. $\|$ [DDDCG02]. A [DES12]. $\mathcal{R}$ [JMSY92]. $\mathcal{R}_{\mathbf{Lin}}$ [VR95]. ℓ [ADG+94]. $O(n \log n)$ [Pet82]. ϕ [CF95, DR05]. π [ABL03].

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

11 [ND16]. **16** [TGT20].

2 [SZLY21]. **2018** [Ahm20]. **2020** [Mül21]. **2021** [Yos22]. **256** [App15].

40 [TGT20].

568 [Han81b].

8 [Ano18].

90 [DP99]. **95** [WJS+00].

Abstract [BGL93, BK11, CMB+95, CFG+97, DGG97, DC22, DHH+24, DLR16, ELS+14, EO80, GS98, GMP24a, HL82, JPP91, KRR18, Lan80, LO94, LV94, LM18, LR13, Loe87, MSJ94, MXZ+22, MP88, SS98, She91, SCS24, TY21, Wei89, van88, ABS09, BDL+08, BdlBH99, Leu04, RM07, SYYH07, SJ03]. **Abstraction** [BNNN22, CGL94, CL94, Der85, GMH81, GKM20, SM81, BMR05, BBTS07, GMZ00, LN02, LH08, MOSS96, PR07, Ell82]. **abstractions** [BCF04]. **Access** [ABLP93, BCC04, KS83, Mis86, NBG13, SR21, HR02, HO07, KSK07, PHP02, PSS05]. **Access-Right** [KS83]. **accessed** [RR05]. **Accessing** [CB80]. **Accommodating** [GMP24a]. **Account** [ABC+21]. **Accumulation** [Bir84, Bir85]. **Accumulators** [Cam89]. **Accuracy** [LVRG21, CEG07, HDH02]. **accurate** [CG04, VBLG04, VALG05]. **ACE** [Le 88]. **ACM** [Ano18, TGT20, Kro82, Kro83, Kro84, Kro85, Kro86, Kro87, Kro88, Kro89, Kro90, Kro91, Kro92]. **Across** [NSTD+15]. **Action** [BKS88]. **Actions** [Lam94, LS83]. **Active** [SR21]. **Activity** [Bar81, MTG80]. **Actor** [TCP+17]. **Acyclic** [BE94, JF81]. **Ad** [MDCB91, PS08]. **Ada** [Bak82, Dil90, Hil88, LP80, WJS+00]. **Adaptation** [Dha91]. **Adaptive** [ABH06, HOYY18, PXL95, TCVB14, UJ92, RD03]. **adaptors** [YS97]. **Addendum** [Bir85]. **Adding** [ACW90, BN94]. **Addition** [CBMO19]. **Addressing** [Hol87, ZP10]. **Adequacy** [KKSD94, Wey83]. **adjusting** [ABB+09]. **Adversities** [GMP24a]. **advice** [WKD04]. **Æminium** [SNS+14]. **Affine** [BAC16, BCEM15, CFNH18, DG19, ELS+14, VJB12]. **Affix** [GF85]. **agents** [BCC04]. **aggregate** [LSLR05]. **Ahead** [BLH12, DP82]. **al** [Ano18, TGT20]. **Alarms** [LLK+17]. **Algebra** [Koz97, Wil82a, KBC+99]. **Algebraic** [BP82, BWP87, CIJGP18, CGG+19, Jen97, Lin93, SV20, JB06, SP07]. **Algorithm** [AB81, Bak82, BB79, BAC16, BP82, Dan23, DSW82, Dha91, DP93, GHS83, HL22, Hua90, Hud91, JJCO19, LV94, LY98, Lei90, LT79, LH91, MM82, MC82a, Pet82, SH89, TB98, Wis79, BKRW98, BH99, DR05, DVD07, JNZ06, Van96a, Van96b, Han81b, BKRW05]. **Algorithmic** [BP82, CFNH18, GM12, JZX+24, Loe87]. **Algorithms** [Apt86, BA84, CIJGP18, CGG+19, 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+01]. **All-Purpose** [Spo86]. **Allocating** [ZP07]. **Allocation** [BB79, Bre89, BCT94, CH90, CS95, FLBB89, GSO94, LCBS19, Rob79, SH89, CGS+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+01]. **Analyses** [AC94, CC95, CFM94, TN19, KSV96, SJ03]. **Analysis** [AKNP17, ABE+05, AD98, Bac84, BNN18, BC85b, Blo94, BE13, Bur90a, CFNH18, CFG19, CDK+18, CMN91, DKKL18, DL93, Deb95, DP97, DC22, DAW88, FPS19, FJK+17, GNS+15, GKM20, GDF23, GJ93, HP96, HL22, HOYY18, Hil88, Hor97, ISY88, Jen97, JJCO19, KD94, LLK+17, LTMS20, LR13, LHR19, LWR21, McG82, MRGP20, MWB94, MOS07b, OHL+14, OLH+16, Pal95, PO95, PCC85, PP91, PW94, PW98, Pur91, RTD83, RTP17, RRB19, RP88, SJW23, SR95, SSS83, SGL98, SS13, ABB+09, BDFZ09, BAL07, Bla03, Blu99, BCG+07, CSW06, Cha02, CGS+03, CKT86, DDV99, DGS97, FF99, GHB+96, GJ05, GZ04, GCRN11, HAM+05, HPMS00, HBCC99, HVDH07, HAH12, IK05, JLRS10, KBC+99, KK07, KSK07, LP00, LH08, MPM03, NS13, PHP02, Pal98, PKH07, Ram00, Rep00, RSL10]. **analysis** [RD97, RRSY08, RR03, RR05, RLS+01, SRW98, SRW02, STS03, SdSCP13, SS96, ST00a, WP10, WJ98, ZSD09, dHB+96]. **analyze** [DMM01, VBLG04]. **analyzer** [SMP10]. **Analyzing** [AW85, BEF+16, CFP+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, MRGP20, RKW+23, SR21, BALP06, CMLC06, NR06]. **Applicative** [AC94, KS86]. **Applying** [JZX+24]. **apprentice** [MP02]. **Approach** [AKNP17, ABR81, AR80, BAC16, BP82, Bur90a, CH90, CD79, DS90, Ell82, ES97, FT94, GGL15, Har80, Hes88, KKW14, Lam79, Lam80, Lee86, LTMS20, MW80, MDCB91, ND16, OA88, Sam80, Spo86, SM81, SNS+14, Bou05, CRN+08, DHM+12, FGM+07a, JLRS10, KV00, LP80, MBT09, PSS05, PCJD08, RC03, SP07, WS97]. **approximations** [BGP99]. **Apt** [Moi83]. **architected** [ZP07]. **Architecture** [Wal92]. **Architectures** [Han94, KPF95, NSTD+15, PAS+15]. **Arising** [Bac84]. **Arithmetic** [Fis80, GNS+15, Hen83, LdR81, MOS07b]. **ARM** [FKW98, ADG+21]. **Armada** [LCK+22]. **Armed** [ADG+21]. **Array** [CGST95, CG95, LS79, Per79, PW98, JB06, LSLR05, NI05, PHP02, RMH06, RR05, ZCG+07]. **array-valued** [RMH06]. **Arrays** [BBC16]. **Article** [Ano18, TGT20]. **ASF** [VHKO02]. **aspect** [DWWW08, WKD04]. **aspect-oriented** [DWWW08, WKD04]. **AspectML** [DWWW08]. **Aspects** [Bor81, Set83]. **assembly** [AAR+10, MWCG99]. **Assertions** [BKB80]. **Assessing** [BDH+16, Wey83]. **Assets** [COE+20]. **Assignment** [BM94, CFR+91, GL80, GPF08, LDK+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+14, Wei89, FFLQ08]. **Attacks** [SBE+19]. **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, CBMO19, ES97, Pro95, KV00]. **Automata-Theoretic** [ES97, KV00].

Automated [GRSK+11, KZC15, KF00, LCK+22, SSFZ+23, Sok87, JNGG10]. **Automatic** [AKNP17, AK87, Ano02a, BBC16, Cat80, CES86, DS90, KK98, Le 88, LK02, LS04, MS83, PZJ05, RH87, SSS81, SLC03, She91, VS22, Wat91, Wha94, ABHI11, ATD08, BdlBH99, CRN+08, ZCG+07]. **Automatically** [Slo95]. **Automating** [GKL94, MTSS09]. **Avoidance** [FGL94]. **Aware** [BPRB23, 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** [NcS20, LS98]. **Based** [BPP16, BGL93, Bur90a, CGJ+97a, CI84, CP95, CH90, CPS93, DVLM15, DLR16, EGP14, GG85, HT86, JTM98, Kai89, KH92, KR79, LFF14, PW98, RTD83, SR95, SGL98, Ste18, SNS+14, TY18, Wat94, WGS92, vPS81, BFG08, BMR01, BHM+07, BCG+07, CTT07, DDV99, Eug07, FF99, HBJ98, JZX+24, JKT23, KBC+99, KK07, KC01, LP00, LH08, LGAT00, MTSS09, ML21, MTK21, MH06, Pal98, PPT08, PCJD08, SP97, SP07, SMP10, SYN06, BDP14, WGS93, WM12]. **Basic** [CGG+19, GLR83]. **Bayesian** [HOYY18]. **BDD** [LH08]. **BDD-based** [LH08]. **Be** [Bee94, Coh91, Wir91, CG04, LP99]. **Behavior** [KLS92, GMM99, VBLG04]. **Behavioral** [LN15, LW94]. **Behavioural** [SV20]. **Being** [Cop94]. **benefits** [GMP+00]. **Better** [Gri79, Lam88]. **between** [BS88]. **Beyond** [GSW95]. **BI** [BBTS07]. **BI-hyperdoctrines** [BBTS07]. **Bidirectional** [DP93, MMR95, FGM+07a, GPWZ08]. **binaries** [STSP05]. **Binary** [Sip82, SCR24, DDD05, MMM+07, RC03, YF09]. **binding** [ACE96]. **Birrell** [MDJ05]. **Bisimulation** [FDY12, MH06, San09]. **bisimulation-based** [MH06]. **Bisimulations** [SV19, SKS11]. **Bit** [CDK+18, KD94, KK07]. **Bit-Precise** [CDK+18]. **bitvector** [KSV96]. **Bliss** [GNS+15]. **Block** [LS81, Mur91]. **Block-Structured** [LS81]. **Blockchain** [COE+20]. **Blocked** [FTJ95]. **Blocks** [Jag94]. **Boolean** [XA07]. **Bootstrapping** [App94a]. **Borrowing** [Pea21]. **Both** [KZC15]. **bottlenecks** [RD03]. **Bottom** [BGL93, GCRN11]. **Bottom-Up** [BGL93, GCRN11]. **bound** [KK07, NI05]. **Bounded** [ADG+94, ITF+22, MXZ+22, LLOY23]. **Bounds** [CP17, FNBG20, ISIRS22, PW94, BP12, CEI+07, RR05, SS05a]. **Box** [WLBF16]. **boxed** [BCC04]. **Branch** [CGJ+97a, CEG07, YUW02, YS99]. **Branches** [WZ91, RC03]. **Branching** [CBMO19]. **Broad** [DAW88]. **Buddy** [Kau84]. **Buffer** [Žic94]. **bugs** [HCS10]. **Building** [Jag94]. **BURS** [Pro95]. **Bus** [Pur94]. **Bytecode** [SA99, BDL+08, CSCM00, FM99, GPF08, KR01, Qia00, SMP10, WR08]. **Byzantine** [LSP82].

'C [PHEK99, BR97, HSS+14, MRGP20, ND16, PKH07, PFH11, Ven95]. **C#** [BCF04]. **C/C** [ND16]. **C11** [JP17]. **Cache** [GMM99, KLS92, MMM+07, SS96, VBLG04]. **Caching** [ABM93, FK85, KS86, LST98]. **Calculational** [Bou06]. **calculi** [ABS09]. **Calculus** [ABLP93, BKL+97, BN94, Gom92, Kob98, LBMTT22, Miq19, MRG88, Nel89, Oho95, WM95, ABL03, AH10, BG22, Bou05, Bou06, BCC04, DES12, HR02, IPW01, Jay04, TA08a, KPT99]. **Call** [DP97, GL80, dBH21, GC01, HL05, KK07, SW97a]. **Call-by-Value** [dBH21, HL05, SW97a]. **Calls** [BNN18, Coh83, Coh85, FF08]. **Can** [Boe85, Coh91, Wir91, CG04]. **Capabilities**

[SDB20, WCM00]. **capability** [TA08a]. **Capturing** [BGOL+23]. **Carlo** [FL15]. **carrying** [AM01]. **Case** [CFG19, FTJ95, WW95, BdlBH99, KF03]. **Cats** [AMT14, ADG+21]. **Causally** [LB22]. **Cause** [Cas95]. **CCP** [EGM01]. **CCured** [NCH+05]. **Cedar** [SZBH86]. **Cells** [ISY88]. **Centered** [CHY12]. **Centers** [KRS84]. **Centralized** [HM84]. **centric** [DHM+12]. **Certificate** [BGKR09, BK11]. **certified** [STSP05]. **CFLOBDDs** [SCR24]. **CHAD** [VS22]. **Chaining** [LS80]. **Chains** [HS94]. **challenge** [MP02]. **change** [BA08, CP96, Lee09]. **Changes** [Ber94, MTSS09]. **changing** [MP07]. **channel** [SCP23]. **Chariots** [PB97]. **CHC** [MTK21]. **CHC-based** [MTK21]. **Check** [AP94]. **checked** [KN06]. **Checker** [CMPP23, NP08]. **Checking** [Car95, CGL94, ES97, FF08, GL94, ND16, AY01, ACM11, BGP99, FFLQ08, HQRT02, JJD98, KF10, KV00, NI05, SG04, VJB12, YMW97]. **Checks** [CG95, CEI+07]. **Chocola** [SDD21]. **Choice** [BN94, JCMM19]. **Choral** [GMP24b]. **Choreographic** [GMP24b]. **CIRCAL** [Mil85]. **Circuits** [HRL+23, LLOY23]. **Circular** [Jon90, Pet82]. **Circularity** [WW95, Wu04]. **Clarification** [PA86a]. **Class** [CBMO19, HKMN94, Han92, SJ03, SDTF13, HS11, MH04, ST00a]. **Classes** [SDTF13, WT11, HHPW96, HMS06]. **Classical** [JSB+12, Miq19]. **Classification** [KZC15]. **Classifying** [GSW95]. **Claus** [WP10]. **Cliché** [Wat94]. **Cliché-Based** [Wat94]. **client** [RKW+23]. **Clique** [GSO94]. **Closure** [Pal95, SW97b, SA00]. **CLP** [DHM00, GLMM05, JMSY92, KMM+98, VR95]. **Clustering** [LLK+17]. **Clusters** [BGH+13, HBG+09]. **coalescing** [GA96, Hai05, PM04]. **Coalgebraic** [KBP22]. **Coalgebras** [KBP22]. **Code** [AGT89, BHM+19, Cat80, Cop94, DF84, FGL94, GF85, Hen82, HG83, JSB+12, KRS94, LR13, LCK+22, ND16, Rob79, TvS82, VP23, Wan82, AM01, DEMD00, Hai98, HBG+09, HK07, JNZ06, LDK+96, MSRR00, ME97, Oho07, PHEK99, WS97, vHK00, CM93, Pem83, WST85]. **Coder** [SBS22]. **Cohen** [Coh85]. **coherence** [SS96]. **coinduction** [San09]. **Collect** [JCMM19]. **Collecting** [HY91]. **Collection** [BA84, CN83, DSW82, Lan80, TM93, URJ18, WLBF16, BALP06, HDH02, PBK+07, Piq96]. **Collector** [YW22, BBYG+05, LP06, TSBR08]. **Coloring** [BCT94, CH90, GSO94]. **combination** [BCG+07]. **Combinator** [FRW90, KLS92]. **Combinatorial** [LCBS19]. **Combinators** [FGM+07a, KS88, KS89]. **Combinatory** [RS97, VS22]. **Combining** [Ber94, BP82, CC95, CMB+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+17, FY85, Gel85, Hua90, LH91, MB83, vPS81, KBC+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** [GDF23, WCW90, WCW91]. **Comparing** [Hai05]. **Comparison** [CN83]. **Compartmentalized** [WLBF16]. **CompCert** [BDP14]. **Compensation** [FGL94]. **Compilation** [ABC+21, DLR16, FKW98, FL91, JLP+14, JF81, Oho95, PAS+15, PG21, Sit79, KMM+98, LST02, LDM07, SYN06]. **Compile** [ABR81, GW99, Hol87, Tra08]. **Compile-Time**

[ABR81, Hol87, GW99, Tra08]. **Compiler** [ABC+21, App94a, BPRB23, Bud84, CM86b, DK17, DEMD00, FT94, FGL94, JSB+12, NN24, Rei83, Slo95, Son87, Wha94, YBL16, Ano02a, CMLC06, DHS09, GMM99, KN06, PE08, PHEK99, SYK+05, VHKO02]. **Compiler-Driven** [YBL16]. **Compiler-Level** [BPRB23]. **Compilers** [BDFH97, DDH84, HP96, Han94, BGKR09, RD97, SYN06]. **Compiling** [Cha93, CH87, Fis80, Set83, VHKO02]. **Complementation** [CFG+97]. **Complete** [BDFH97, WM95]. **Completeness** [LBN17, TB95, WGS92, dBH21, Wu04, WGS93]. **completion** [KR01]. **Complexity** [BG22, BEF+16, Deb95, ISIRS22, Le 88, dBH21, RRSY08, SSD09]. **component** [LS98, YS97]. **component-base** [LS98]. **Componential** [FF99]. **Components** [CIJGP18]. **Composable** [SDD21]. **Composing** [AL93, HKMN94]. **Composite** [Fea87]. **composition** [AH10, Pau01]. **Compositional** [DSFG21, Fos96, Jon94, JTM98, LFF14, SZLY21, ZSO21]. **Compositionally** [Dan23]. **compressed** [DAS98]. **Compression** [BMW91, CSCM00, DKV07]. **Computability** [HMS06]. **Computable** [PK82]. **Computation** [AC94, BG22, BOV85, DP82, HS94, LST98, PB97, ABB+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+91, CF95, KM81, HVB+99, MMG00]. **Concept** [Tur86, ST00a]. **Concepts** [Eug07]. **Concerning** [Sha82]. **Concrete** [Bar81, DHH+24]. **Concurrency** [ADG+21, BG89a, Lam90, LMM21, SDD21, Wei89, BCF04, Mil85, TA08a, CPS93]. **Concurrent** [BC91, Car95, CIJGP18, Cla80, CES86, CPS93, CFM94, DSFG21, DGMP97, DHH+24, FT94, Hal85, HSP83, HW90, Her93, JTM98, Kar84, Lam83, LFF14, LCK+22, MSM+16, OL82, Pet83a, Pet83b, RY88, SZLY21, Sku95, SNS+14, AE98, AE01, AAE04, BBYG+05, BGP99, CSW06, JPS+08, RS97, SRM10, YS10]. **Concurrent-by-Default** [SNS+14]. **Concurrent-Program** [FT94]. **Condensation** [JTM98]. **Condition** [HW90]. **Conditional** [Boy96, GGSV22, WZ91, Dam03]. **Conditioning** [OGJ+18]. **conditions** [KWL09]. **Conference** [Wol92]. **confined** [GPV07]. **Conflict** [Cas95]. **Conjecture** [KPS92, Sag86]. **Conjoining** [AL95]. **Conquer** [JZX+24]. **conservative** [Hai05]. **considered** [Gor04]. **Consistency** [FSH23]. **Consistent** [LB22, XBOS20]. **Constant** [CIJGP18, CGG+19, Coh91, WZ91, Wir91]. **Constrained** [BG89a, DAW88, PS96, Žic94, LPP01]. **Constraint** [Bor81, DGMP97, DDV99, HLH19, NSTD+15, Pal95, PW98, Ste18, Apt00, BMR01, DPPR00, FH04, GHB+96, HPMS00, SS08, SS09, SP07, SSD09, dHB+96]. **Constraint-Based** [PW98, Ste18, DDV99, SP07]. **Constraint-Oriented** [Bor81]. **Constraint-Solving** [NSTD+15]. **Constraints** [AKP94, DFR15, HG83, Mye90, BA08, RM10, TFK+11, Van96b, VHM+01, Van96a]. **Construct** [Ans87, BS83, Kat93]. **Construction** [ADGM91, HIT97, LaL81, MB83, RH87, SL92, CMS03, GC01]. **Constructions** [LBMTT22]. **Constructive** [Loe87]. **Constructs** [AR84, DJP+16, Par90]. **Containerless** [Ste22]. **Context** [GHR80, KBP22, LTMS20, LWR21, Ode93, Pad19, PK80, Ram00, RTD83, SCR24, VP23, Rep00].

Context-Dependent [Ode93, RTD83]. **Context-Free** [GHR80, Pad19, KBP22]. **Context-Free-Language** [SCR24]. **Context-sensitive** [Ram00, VP23, Rep00]. **Context-Unbounded** [LWR21]. **Contexts** [Ode93]. **Contextual** [TDA+23]. **Continuation** [BDM15, Wan82]. **Continuation-Passing** [BDM15]. **Continuations** [BDM15, HF87]. **Continuous** [KF03]. **Contract** [RKW+23, DF11]. **Contract-client** [RKW+23]. **Contracts** [SIG17, SDTF13, CGP09]. **Contravariance** [Cas95]. **Control** [ABLP93, Bur84, CL94, CFR+91, DP97, FM87b, HBS22, Kat93, Lam88, Lin79, NBG13, PB97, PBR+15, RSPS23, Set83, SCP23, SS13, Tur84, Wat83, Wei89, BCM99, BCC04, HO07, PSS05, RAB+07, Zho96]. **Control-flow** [SCP23]. **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]. **Coq** [HRV+23]. **core** [IPW01]. **Cores** [YGRBA23]. **Coroutine** [Sam80]. **Coroutines** [LS81, DI09]. **Correct** [DGMP97, Hen86, JP17, SS88, AAD+07]. **Correction** [FA93]. **Correctness** [ABC+21, Apt86, CM86b, FRW90, Gom92, HW90, Lam79, Lam80, ML21, 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, TGT20, Van96a, Wal81, WGS93]. **Cost** [AB81, Bac84, DL93, Hai98, Han81a, ZGZ05, VALG05]. **Cost-optimal** [Hai98]. **costs** [GMP+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+18]. **Cross-Interferences** [FTJ95]. **Cross-Language** [Ano18, GSS+18]. **Cryptographic** [App15, HRV+23]. **CS** [CD79]. **CSim** [SZLY21]. **CSP** [AF84, Bag89, BS83, Fid93, Hua90, LS84, Žic94]. **CSP-Like** [Hua90]. **CSS** [HLH19]. **currency** [DS98]. **Curry** [LR19]. **Curry-Style** [LR19]. **Custom** [DJP+16]. **CV3** [CZ84]. **Cycle** [BG89b, PBK+07]. **Cycles** [FRW90]. **Cyclic** [RY88].

D. [Bur91]. **Data** [AMT14, ANP89, AM85, Bac84, BNNN22, BC85b, BL87, Bur90a, Cha93, CS87, Deb89, DP93, DD85, Ell82, EO80, FL81, GMH81, GEGP17, HL82, Her93, Hes88, Hol87, Jen97, JJCO19, KH92, Kam83, KZC15, KK98, KD94, LaL89, LO94, LN02, LVRG21, Loe87, Mal82, MMR95, MCT96, PP91, QG95, RCRH95, RP88, SSS81, Sku95, SGL98, SM81, TWW82, WL85, Wei89, Wei90, Wet82, Wey83, CFP+04, DHM+12, DGS97, HBJ98, KBC+99, KF00, LK02, Rep00, SP07, VALG05, YUW02, ZGZ05, Pur91]. **data-centric** [DHM+12]. **Data-Driven** [BL87, CS87, JJCO19]. **Data-Flow** [BC85b, Bur90a, Wet82, RP88, KBC+99]. **data-independence** [Rep00]. **data-member** [KF00]. **Data-Parallel** [Cha93, HBJ98]. **Database** [Bar85, CB80]. **Databases** [SR21]. **Dataflow** [Deb95, DFR15, MWB94, SS13, SS96, Van96a, Van96b, VHM+01]. **datalog** [LS09, ZSS20]. **datatypes** [MBC04]. **Deadlock** [CHMY19, Hua90, Kob98]. **Deadlock-Free** [Kob98]. **Deadlocks** [FJK+17]. **Dealing** [GLMM05, GG85].

Debugging [CMN91, CM93, Cop94, Hen82, WST85, ZSS20]. **Decentralized** [RKW+23]. **Decidable** [LB22]. **Deciding** [GGL15]. **Decision** [MTG80, NO79, SCR24]. **decisions** [MTSS09]. **Declarative** [ABPS98, TCVB14, Bou05, MME+10]. **Decompilation** [BB94]. **Decomposing** [BDL+08]. **Decomposition** [JZX+24, LK02]. **Decomposition-based** [JZX+24]. **decrease** [LDK+96]. **Deducing** [TB95]. **deduction** [LMD98]. **Deductive** [MW80]. **Deep** [YW22]. **Default** [SNS+14, LMM21]. **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** [FPS19, GSW95, PA85, PA86a, PA86b, PF96, SR95, DGS97]. **Demand-Driven** [GSW95, PA85, PA86a, PA86b, FPS19, PF96, DGS97]. **Demanded** [SCS24]. **Denali** [JNZ06]. **Denotational** [AB94, FA93, Gud92, MSJ94, NF89, Nie85, Sch85, dBB85]. **Dependence** [BGH+13, CFR+91, FOW87, HBG+09, HRB90, ML21, PB97, PW98, Wol94, RAB+07]. **Dependence-based** [ML21]. **Dependences** [PW94]. **Dependencies** [Deb89, HBS22, CSS99]. **Dependency** [Blu99]. **Dependent** [LS80, Miq19, NBG13, Ode93, RTD83, Rob79]. **dequeues** [Chi05]. **DeRemer** [Sag86]. **Derivation** [BKB80, Cat80, DSW82, Gie83, HIT97, Kna90, TM93, Ano02a]. **Derivative** [JKT23]. **Derivative-based** [JKT23]. **Deriving** [Wan82, Bou06]. **Describing** [AW85]. **Description** [McG82]. **Descriptions** [Boe85, BKL+97, Cat80, Ano02a]. **Descriptors** [Hol87]. **Design** [BPP16, BCD+15, BO94, DF80, DF81, DC22, FT94, HM84, KKM90, LDM07, ML80, NN24, RCS93, RL98, SYK+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, YGRBA23, DL18, Tar07]. **Development** [BKB80, Col84, Fea87, Jon83, ML80, PPS79, Wil82a]. **Diagnosis** [BF87]. **Diagrams** [SCR24]. **Dialect** [Mul92]. **Dialects** [CP95]. **dialogue** [BCM99]. **DIB** [FM87a]. **difference** [BA08]. **Differencing** [PK82, RSL10]. **Differential** [BKOZB13, TDA+23, ZP07]. **Differentiation** [Sha82, VS22]. **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** [VMLY22, FGM07b]. **Disciplines** [SS84]. **Discovering** [FJK+17]. **discovery** [PZJ05]. **Discrete** [Bar81]. **Discrete-Event** [Bar81]. **Disintegration** [NcS20]. **Disjunctive** [Jen97, JJCO19]. **dispatch** [DAS98, MFRW09]. **dispatching** [GZ07]. **Distance** [Wol94, ZSD09]. **distribute** [CRN+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+17, Zav85, ABL03,

FM87a, HVB+99, KGMO04, LK02, MDJ05, Piq96, Fra80a, Moh81, VHB+97]. **Distributed-Memory** [KK98, RCRH95]. **div** [Bou92]. **Dive** [YW22]. **Divergence** [SdSCP13]. **Divide** [JZX+24]. **Divide-and-Conquer-like** [JZX+24]. **DJ** [DR05, SGL96, SGL98, UM02]. **DJ-graphs** [UM02]. **DLLs** [Dug02]. **do** [SS05a]. **Documentation** [MH86]. **does** [DMP96]. **dolce** [MP10a]. **Dollars** [HL22]. **Domain** [LM18, Tra08, RM07, SS05a]. **Domains** [CMB+95, ELS+14, GS98, FH04, GLMM05]. **dominance** [Ano02b, DVD07]. **dominator** [SGL97]. **Dominators** [LT79, Ano02b, BKRW98, BKRW05]. **Don't** [AKNP17]. **Down** [HL22, SZLY21]. **drf** [MSM+16]. **Drinking** [CM84, MS88]. **Drive** [PK80]. **Driven** [BL87, CS87, GF85, GSW95, JJCO19, PA85, PA86a, PA86b, TGT18, YBL16, DGS97, FPS19, PF96, TGT20, YMW97]. **Dually** [MT08]. **Dummy** [Lam88]. **During** [BKB80]. **DyC** [GMP+00]. **Dyck** [LZR22]. **Dynamic** [ACPP91, AGT89, ASF17, BNNN22, BB79, BDM15, Bre89, CGG+19, CHMY19, CTT07, DS98, Dug99, HSS+14, HN05, Kai89, KR79, RCRH95, Ven95, WR08, dBB85, ACE96, BP12, CEI+07, DDDCG02, GZ07, MMM+07, PHEK99, SJP12, SHB+07, SYK+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, Mye19, Pal11a, Pal11b, Pal12, Pal13, Pal15, FP02, OP04]. **Editors** [DMM88, MM89, RTD83, Wat94]. **EDO** [OKN06]. **Effect** [Gor21, RLS+01]. **Effective** [BS83, Col84, JB20, KKN06, NI05, PE08, WJ98, YUW02]. **Effectiveness** [BdlBH99, SH89]. **Effects** [Boe85, MXZ+22, SV20, TA08b]. **Efficient** [AKBLN89, ADGM91, BB79, BGH+13, Bre89, Cam89, CS95, DP82, DMM88, GZ05, GZ07, GLR83, GLO88, GSO94, HVB+99, HS94, HSS+14, HIT97, JP81, Jon90, KKM90, KRS88, KPF95, MVV+01, MM82, NB99, NI05, PHP02, PXL95, PG21, PKH07, PA85, PA86b, RH87, SS08, SA00, SS88, TN19, WG98, YUW02, BCP08, GB99, KSV96, LPSO04, LS09, PBK+07, TP04, VWJB10, YF98, PA86a, SS09]. **Efficiently** [Bal94, CFR+91, CF95]. **Eiffel** [ACE96]. **elaboration** [KR01]. **Election** [Hua93]. **Eliminating** [BT93, Coh83, Coh85, RD03]. **Elimination** [DP93, SCP23, SGL98, KKN06, KCL+99]. **Elimination-Based** [SGL98]. **embedded** [BCP08, CSCM00, HK07, Rhi03, SRM10, TP04, ZP10]. **Embedding** [HF87]. **Empirical** [BHK07, BDH+16]. **Empowering** [JSB+12]. **Emulator** [ML80]. **Enabled** [ADG+94]. **Encapsulating** [GPV07]. **Encapsulation** [AR84, RSPS23, DDM11]. **Enclaved** [BNV+21]. **Encoding** [Hob84, GZ05, ZP07]. **Encodings** [BC79, TY21]. **End** [BDP14, CSCM00]. **enforcement** [HMS06]. **Enforcing** [CEI+07, RKW+23]. **engines** [SS08, SS09]. **enhanced** [GH97]. **Entries** [LaL84, SS82]. **Enumeration** [BB94, JJD98]. **Environment** [CO90, SZBH86, CKT86]. **Environmental** [SKS11, SV19]. **Environments** [BS86, GKL94, HK85, HT86, Kai89, dJKVS12]. **Epochs** [Sol92]. **equalities** [FMoPS11]. **Equality** [Pal98]. **Equality-based** [Pal98]. **Equations** [HO82, Bou06, GS11, GMM99]. **Equiprobable** [PB80]. **Equivalence** [SV20, VJB12, VSS94]. **Equivalent** [PO95, NP08]. **Erlang** [TCP+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+19, Wha94, CPRT02, JNGG10]. **Escape** [Bla03, CGS+03]. **ESOP** [Ahm20, Mül21, Yos22]. **ESOP'05** [Sag07]. **Essential** [DES12]. **Esterel** [Tar07]. **Estimation** [SBB+19]. **Estimations** [LVRG21]. **Eta** [DMP96]. **Eta-expansion** [DMP96]. **Euclid** [HW82]. **Euclidean** [Bou92]. **Evaluating** [BLH12]. **Evaluation** [AFV98, Bur84, CGST95, CK93, Gri82, Hud91, Jon90, LV94, LLOY23, PA85, PA86a, PA86b, RD87, RL98, Slo95, SG90, WCW90, WCW91, ZSS20, ADR06, CP96, CG04, GJ05, LDM07, Leu04, ST00b, SYK+05]. **Evaluations** [BDH+16]. **Evaluator** [Gom92, JP81, KR79, Le 88]. **Evaluators** [CP95]. **Event** [Bar81, BPRB23, YMW97]. **event-driven** [YMW97]. **Events** [Bal94]. **Ever** [Gri79]. **Evidence** [CGJ+97a]. **Evidence-Based** [CGJ+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+94, LH91, ABHI11]. **Executable** [Hob84]. **executables** [YF09]. **eXecute** [BR10]. **Execution** [BNV+21, CS87, Dil90, GJ93, JW17, JNGG10, JF81, SS98, SS88, BALP06, GPA+01, TSY00, YF98]. **Exemplars** [LaL89]. **Exemplified** [DGL+79]. **Exercise** [Kna90, Mis81]. **Exhaustive** [Bur90a, LLOY23]. **Existential** [MP88]. **existing** [LS98]. **expansion** [DMP96]. **Expansions** [SBB+19]. **Experience** [FSS83, Wal92]. **experiences** [Eug07]. **Experimental** [LV94, SSS83, Ven95, ABB+09, BGP99]. **Experiments** [Tur84]. **Explanation** [Mis81]. **Exploiting** [KOE+06, VP23]. **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** [ABC+21, CBMO19, KGMO04]. **Extending** [CEW14, CMS03, MSRR00, MK94]. **Extensibility** [LCK+22]. **Extensible** [HSG17, Sto04, ATD08, MBC04]. **Extension** [Bur90b, Coh91, WSH15, Wir91, ALZ03, KKN06, LS08]. **Extensions** [Wir88]. **Extent** [MF88]. **External** [Wal80, Wal81]. **Extracting** [GP95]. **extraction** [TSL+02]. **extrapolation** [WM12]. **Extrema** [Pet82].

F [MWCG99]. **Facets** [ASF17]. **factoring** [DRSS96]. **Failure** [BN99, Dar90, GHH+19, Kar84]. **Failure-Free** [Kar84]. **Fair** [BN94, PR07]. **Fairness** [ES97, OA88, TB95, AH98]. **Families** [LaL89]. **Fashioned** [AL94]. **Fast** [ADR06, DAS98, FMoPS11, HVDH07, LT79, LZR22, SR95, DR05, PE08, TP04, VBLG04, DVLM15]. **Faster** [CGG+19]. **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]. **Few** [HL22]. **Fickle}** [DDDCG02, AAD+07]. **field** [PKH07]. **field-sensitive** [PKH07]. **fields** [PZJ05]. **FIFO** [FLBB89]. **Final** [Kam83]. **Finding** [KRS84, KKM90, LT79]. **Fine** [DSFG21, HL22, PBR+15, DNS+06]. **Fine-Grained** [HL22, PBR+15, DSFG21, DNS+06]. **fingerprinting** [CTT07]. **Finitary** [AH98]. **Finite** [ACW90, BLH12, CES86, Dan23, GC86, PK82, PP91, Pur91, RSL10, Zav85].

Finite-State [ACW90, BLH12, CES86]. **Finite-State-Machine** [Zav85]. **First** [ADG+94, Bre89, DP97, HKMN94, Han92, JPP91, JS94, LH91, MH04, MPLM23, SDTF13, HMY+24]. **First-Class** [HKMN94, Han92, SDTF13, MH04]. **First-Come-First-Served** [LH91]. **First-Enabled** [ADG+94]. **First-Fit** [Bre89]. **First-In** [ADG+94]. **First-Order** [DP97, JPP91, JS94, MPLM23]. **Fit** [Bre89]. **Fixed** [SS98]. **Fixed-Order** [SS98]. **Fixpoint** [AC94, Qia00]. **Flexible** [AD98, Hud91, MSM+16, WG98, Wil82b, dJKVS12, IV06, KGMO04]. **Floating** [CK94, Fat82, SBB+19, Hau96, Mon08]. **Floating-Point** [CK94, Fat82, SBB+19, Hau96, Mon08]. **flop** [MMG00]. **Flow** [AR80, AD98, ASF17, Bac84, BC85b, Bur90a, DP97, DP93, FJKA06, Hor97, KD94, MMR95, NBG13, PO95, PP91, PBR+15, Pur91, RSPS23, Set83, SGL98, SS13, Wet82, DGS97, HR02, HY07, KBC+99, Pal98, PS03, RRSY08, RP88, SCP23, TZ07, WJ98]. **Flow-Insensitive** [Hor97, FJKA06]. **Flowback** [CMN91]. **Flowgraph** [LT79]. **Flows** [Kna90]. **Floyd** [Yin11]. **Fly** [CF95, BA84, LP06, PBK+07, URJ18]. **Focusing** [EKD23]. **fold** [RKRR04]. **Folklore** [LY98]. **Font** [FK85]. **Foo** [FA93]. **ForeC** [YGRBA23]. **foreign** [FF08]. **Foreword** [Mye17, Mye18]. **Form** [AK87, BOV85, BM94, CFR+91, GSW95, Pal95, PG21, GPF08, KCL+99]. **Forma}** [ZCG+07]. **Formal** [ADG+21, BS86, BDP14, CB80, CD79, Fid93, Gie83, HIT97, Kna90, Lee86, Mal82, MH86, SSFZ+23, Sha82, WP10]. **Formalism** [Pea21]. **Formalisms** [PCC85]. **Formalization** [BPP16]. **Formally** [SP97]. **Format** [Wat83]. **Forms** [DS83]. **formulas** [RSL10]. **formulations** [RS97]. **Fortran** [AK87, DP99]. **Foundation** [KRR18, Ban11, RAB+07, Rhi03]. **Foundational** [HRV+23, AM01]. **Foundations** [GTWA14, LW93, AAR+10]. **Fractal** [MPM03]. **fractional** [Boy10]. **Frames** [MPLM23, SJP12]. **Framework** [BGL93, Gie83, HRV+23, JW17, KRR18, NSZS13, NSTD+15, OHL+14, SGL98, TN19, ATD08, DGS97, GMM99, GZ04, GC01, Leu04, PS08, RKRR04, TP04, VBLG04, XA07, ZCG+07, ZP10, vHK00]. **Frameworks** [MMR95, KK07]. **Framing** [BNN18, BNNN22]. **Francez** [Fra81, Moh81, Moi83]. **Free** [AP94, GEGP17, GHR80, Her91, Kar84, Kob98, Pad19, SCR24, JJD98, KBP22, KSV96]. **freedom** [KS10]. **Fresh** [GMN+21]. **frontiers** [Ano02b]. **full** [GB99]. **Fully** [JPP91, TY21]. **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, TY21, Lee09, MBC04, MB99, MT08, PPT08]. **Further** [CM93]. **Fusion** [JB20, LGAT00]. **Fusion-based** [LGAT00].

G. [Tic88]. **Garbage** [BA84, CN83, DSW82, ISY88, JCMM19, TM93, URJ18, WLBF16, Wis79, YW22, BBYG+05, BALP06, HDH02, LP06, Piq96, TSBR08]. **Garnet** [VHM+01]. **General** [BGL93, CHMY19, HSS+14]. **General-Purpose** [HSS+14]. **Generalization** [Nel89, LMD98]. **Generalized** [Ans87, BS83, GKM20, KD94, Lin79]. **Generalizing** [DB85]. **Generals** [LSP82]. **Generate** [Son87]. **Generated** [Slo95, dJKVS12]. **Generating** [HBM+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**

[JKT23, PPS79]. **Generators** [Cat80, GHK81]. **Generic** [LV94, DDM11]. **generics** [IV06]. **Geometry** [CR87]. **Georgeff** [NN86]. **GJ** [IPW01]. **Glanville** [MSRR00]. **Global** [Bac84, Dha91, GHB+96, OHL+14, PK80, PS92, Sch85, Sor89, dHB+96, CS04, KBC+99, DS88]. **Globally** [DHH+24]. **GLR** [SJ06]. **Goal** [Dar90, Gud92, SYYH07]. **Goal-Directed** [Gud92, SYYH07]. **Goal-Oriented** [Dar90]. **Goto** [CF94]. **GPU** [BCD+15]. **Gradual** [TGT18, TGT20]. **Gradualizing** [LBMTT22]. **Graham** [MSRR00]. **Graham-Glanville** [MSRR00]. **Grained** [HL22, PBR+15, DSFG21, DNS+06]. **Grammar** [CI84, CP95, GF85, JP81, KR79, Web95]. **Grammar-Based** [CI84]. **Grammars** [BS88, JKT23, Jon90, Kat84, LaL81, RD87, RH87, Tai79, WW95, Boy96, CP96, Wu04]. **Grammatic** [Tho94]. **Grammers** [BB94, MK94]. **Granularity** [RRB19]. **Graph** [Ass00, Bee94, BCT94, CFR+91, FOW87, KKSD94, KLS92, LZR22, MC82a, Son87, CTT07, GC01]. **graph-based** [CTT07]. **Graphic** [Mal82]. **graphical** [VHM+01]. **Graphs** [GKM20, HRB90, KPS92, Kna90, SGL98, DR05, JC97, KSK07, SGL96, UM02]. **grid** [VWJB10]. **Grimmer** [Ano18]. **groundness** [CSS99]. **Grover** [BH99]. **growth** [BALP06]. **Guarantee** [GEGP17, LFF14, SZLY21, HQRT02]. **guarantees** [LS09]. **guard** [MP07]. **guarded** [SP07]. **Guardians** [LS83]. **Guards** [Ber80]. **Guest** [FP02, OP04, DeM83, Per90, Rep86, Wol92]. **Guide** [App94a, BDH+16]. **Guided** [OLH+16]. **guiding** [VALG05].

Hackers [App94a]. **Hancock** [CFP+04]. **handle** [VJB12]. **Handling** [CCEG23, Hau96, LdR81, Piq96, SSS83, UM02, YB85, YB87, YB88, CRN+08, LS98, LP80, SSD09, Hen83]. **Hard** [Hor97]. **Hardware** [BKL+97, Mis86]. **Hare** [Dan23]. **harmful** [Gor04]. **Hashing** [PB80, Duc08]. **Haskell** [GRSK+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+16, URJ18, CMS03, VWJB10]. **High-Level** [Cam89, Fat82, CMS03, VWJB10]. **High-Performance** [URJ18]. **Higher** [AC94, AD98, CJK95, DJP+16, FPS19, SV19, BBTS07, DF11, SKS11, SP97]. **Higher-Order** [AC94, AD98, CJK95, DJP+16, FPS19, SV19, BBTS07, DF11, SKS11, SP97]. **Highly** [Her93, Sku95]. **Hoare** [Apt81, GM81, LS84, Sok87, Yin11, dBH21]. **Hoc** [MDCB91]. **Holistic** [ZMVPJ17]. **Homeostasis** [NN24]. **Homomorphic** [LLOY23, VS22]. **Homomorphisms** [HIT97]. **HOP** [BLRS12]. **Hot** [VP23]. **Hybrid** [KF10, KS10]. **Hyperball** [LM18]. **hyperdoctrines** [BBTS07].

I-Structures [ANP89]. **I/O** [Car95]. **Icon** [GHK81, Gri82]. **id** [Bee94]. **idempotency** [KOE+06]. **Identical** [FLBB89]. **Identification** [BGH+13, SBE+19]. **Identifiers** [SSFZ+23]. **identify** [MMM+07]. **Identifying** [Ram99, SGL96]. **Idioms** [PP94]. **IDL** [Lam87]. **IEEE** [Fat82]. **Ignorance** [GNS+15]. **Illustrative** [Oss83]. **Immutability** [RSPS23]. **Impact** [BHM+19, OLH+16, CKT86]. **Imperative** [AB20, ABPS98, DFR15, Gro06]. **Implementation** [AKBLN89, AOC+88, BCD+15, Bou88, Bre89, BS83, CM86b,

GMH81, Gaz83, Lin93, MDCB91, NN24, PXL95, RL98, WL85, CMLC06, FM87a, GB99, LDM07, LPSO04, Tra08, Zho96]. **implementations** [BBF+11, BFGT08, DF98]. **Implemented** [DB85]. **Implementing** [BR97, Her93, HW82, Sku95]. **Implications** [Fat82]. **Implicit** [BH05b, SJP12]. **Implicit-signal** [BH05b]. **Improve** [VP23, KF00]. **Improved** [GHR80, Mur91, KK07]. **Improvement** [MS83, San96]. **Improvements** [BCT94]. **Improving** [CK94, CMB+95, MCT96, SSFZ+23, TCP+17, WS97]. **impure** [Pip97]. **Incomplete** [MRGP20, GLMM05]. **Incremental** [Bur90a, CP95, DMM88, GM79, HKR92, HKR94, HPMS00, Hud91, Kai89, Lar95, LST98, LHR19, PS92, RTD83, RP88, SGL97, WG98, YS91, BBYG+05, CP96, Van96a, Van96b]. **Incrementally** [QL91]. **Independence** [DHM00, GGSV22, 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]. **Inductive** [LBMTT22]. **inefficiencies** [MMM+07]. **Inessential** [SS82, LaL84]. **Inference** [CEW14, Deb89, Hen93, LO94, LY98, MRGP20, Pad19, SR21, TB98, Wey83, FFLQ08, JB06, PM06, PT00, PS03, Van06]. **Inferring** [FNBG20]. **Influence** [FTJ95]. **Information** [AR80, Ano82, Ano83, Ano84, Ano85, Ano86b, Ano87, Ano88b, Ano89b, Ano90b, Ano91b, Ano92b, ASF17, BC85b, HR02, NBG13, PBR+15, PS03, RSPS23, GS99, HY07, LN02, OYR09, TZ07]. **Information-Flow** [BC85b, TZ07]. **infrastructure** [SWU10]. **Inheritance** [LN15, WT11]. **initialization** [FM99]. **Injection** [SBE+19]. **Input** [BS83, SJW23, vPS81]. **Input-Output** [BS83]. **Inputs** [PA86a]. **Insensitive** [Hor97, FJKA06]. **Insertion** [AKNP17, GJ05]. **inspection** [CF04, FG03]. **Instantiation** [Der85]. **Instead** [Lam84, Rem81]. **Instruction** [KPF95, LCBS19]. **Instructions** [LS80, PS93, RF97, Rob79, LPP01]. **Integer** [BAGM12, BEF+16, FNBG20, HSD22, BGP99]. **Integrated** [SS13]. **Integrating** [HPR89, WJS+00]. **Integration** [CO90, Leu04]. **Intensional** [STS03]. **Interaction** [WSH15, WT11, van88, BCM99]. **Interactions** [GDF23, JS94]. **Interactive** [ACS84, BS86, SCS24]. **Interconnectability** [TY18]. **Interface** [Win87, van88]. **Interfaces** [DS90, Mye90, TLHL11, WT11]. **Interferences** [FTJ95]. **Interfering** [Jon83]. **Interleaved** [LZR22]. **Interleaved-Dyck** [LZR22]. **Intermediate** [Lam87, Pem83, TvS82]. **Internal** [Han81a]. **International** [Wol92]. **Interoperability** [Ano18, GSS+18]. **interoperable** [BFGT08]. **Interpretation** [BGL93, CFG+97, DC22, DLR16, GMP24a, KRR18, LV94, MSJ94, SCS24, BDL+08, BdlBH99, DGG97, Leu04, SYYH07]. **Interpretation-Based** [DLR16]. **Interpretations** [CMB+95, HY91, SJ03]. **Interpreters** [LR13, CEG07]. **Interprocedural** [Bur90a, BT93, DP97, HAM+05, HS94, HBCC99, HRB90, LWR21, ML21, NR06, SH89, CKT86, DVD07, DGS97, FMoPS11, JLRS10, KK07, RLS+01]. **Interprocess** [RS84b]. **Interprocessor** [Ang89]. **Interruptible** [BNV+21]. **intersection** [Dam03]. **Intertask** [FY85]. **Interval** [Bur90a, GNS+15, FH04]. **Interval-Based** [Bur90a]. **Introduction** [Ahm20, DeM83, HCW82, Mül21, Per90, Rep86, Sag07, Wol92, Yos22]. **Invariant** [BKB80]. **Invariants** [Cla80, GEGP17]. **Irreducible** [Hav97, UM02]. **irregular**

[YF98]. **Irrelevant** [GP81]. **Iso** [LBN17, ZZO22]. **Iso-Recursive** [LBN17, ZZO22]. **Isolation** [Wha94]. **Isomorph** [JJD98]. **Isomorph-free** [JJD98]. **Issue** [Ahm20, Ano18, TGT20, Yos22, Sag07]. **Issues** [BO94]. **Iterable** [Gor21]. **Iterated** [GA96]. **Iteration** [Cam89, MOSS96, GS11, JLF02, Qia00]. **Iterative** [Ans87, Par90, DR05, JNGG10, LS04].

Jade [RL98]. **Jam** [ALZ03]. **Java** [AFF06, ALZ03, AAD+07, BH05a, Bla03, BALP06, CGS+03, CMS03, CSCM00, FFLQ08, FM99, GPF08, IPW01, KKN06, KGMO04, KN06, KR01, LST02, LP06, LS08, Loc13, MVV+01, MME+10, MFRW09, MMG00, NR06, OKN06, Qia00, RRB19, SLC03, SMP10, SBE+19, SA99, SYK+05, TN19, TSL+02, WR08]. **Java-like** [KN06]. **JavaCOP** [MME+10]. **JavaGI** [WT11]. **join** [WKD04]. **JR** [KGMO04]. **Jump** [LS80, RS84a]. **Just** [DLR16, TN19, SYK+05]. **Just-In-Time** [TN19, DLR16, SYK+05]. **JVM** [HO07].

KaffeOS [BH05a]. **Kaiser** [Tic88]. **Kernels** [BCD+15, ATD08]. **Keys** [PB80]. **Kilbury** [Lei90]. **Kitsune** [HSS+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+15]. **Lamport** [Ang89, Pet83b]. **Language** [ACPP91, AOC+88, Ano18, ABPS98, BS86, BPP16, BO94, Bor81, BC91, DVLM15, Fat82, Fea87, FFF+18, GSS+18, Gud92, Hal85, HSG17, JMSY92, JPP91, Kai89, LVRG21, McG82, Per79, PPS79, RTD83, RCS93, RKW+23, SCR24, Spo86, SNS+14, SDD21, Tur84, Wet82, Win87, YS91, YB87, dJKVS12, van88, Bou05, BSvGF03, CFP+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, BHM+19, Blo94, BM94, BWP87, CDFP89, CMPP23, DHH+24, Dug99, Fos96, FL91, HU96, Lee86, LR19, LMM21, MSM+16, Mur91, Ryu16, SV19, TK94, TGT20, AAR+10, ACM11, DHM00, GW99, RS97, Rhi03, SRW98, SKS11, SP97, SWU10, Wol92]. **Larch** [Win87]. **Large** [GLR83, HSD22, MK94, MH86, WCW90, WCW91, ZSS20]. **Large-scale** [ZSS20]. **Lattice** [AKBLN89, MMR95, FH04]. **Lauer** [GM81]. **Layout** [KK98, LVV+83, GPWZ08, KF00]. **Lazy** [ABM93, FKW00, HKR94, Hud91, ITF+22, TCVB14, Chi05]. **LCF** [Sok87]. **lead** [SS05a]. **Leader** [Hua93, KKM90]. **leak** [HDH02]. **learned** [VHM+01]. **Learning** [CGJ+97a, HOYY18, JJCO19, SR21]. **Least** [AB81, Bac84]. **Least-Cost** [AB81, Bac84]. **Left** [FKW98]. **Left-Linear** [FKW98]. **legacy** [NCH+05]. **length** [SMP10]. **Lessons** [URJ18, VHM+01]. **Let** [LY98]. **Let-Polymorphic** [LY98]. **Level** [BPRB23, Cam89, Fat82, GP95, YBL16, CMS03, VWJB10]. **Lexical** [HKR92, SJW23]. **libraries** [Dug02]. **LIFE** [AKP94]. **lifetime** [HBM+06]. **Lifetimes** [Pea21]. **Lightweight** [Pea21, SW97b]. **Like** [Hua90, JZX+24, KN06]. **Limitations** [CP17]. **Linchpin** [BGH+13]. **Linda** [Gel85]. **Line** [Bal94]. **Linear** [BL94b, FKW98, PS99, RS84a, TDA+23, YR94, BKRW98, BKRW05, FMoPS11, KBC+99, Ram99, Rep98, RM10]. **Linear-Time** [YR94, BKRW98, BKRW05]. **Linearity** [KPT99]. **Linearizability** [HW90, DSW11]. **Linearization** [SCP23]. **Linguistic** [LS83, Wei90, FGM+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]. **Lists** [Dan23]. **Literature** [Oss83]. **Live** [DSFG21, MWB94]. **Live-Structure** [MWB94]. **Liveness** [ACW90, GC86, OL82, RY88, HDH02]. **LL** [BF87]. **LLVM** [HL22]. **Load** [KPF95]. **Loaded** [BG89a]. **Local** [BDFZ09, CBDGF95, HMY+24, PT00, SDB20, TSBR08, Wei89, Dam03, San96]. **Local-first** [HMY+24]. **Locality** [BAC16, MCT96, VALG05, ZSD09]. **Locally** [AB81, Bac84, DHH+24, Min84]. **locating** [JNGG10]. **Locator** [ZMVPJ17]. **Lock** [GEGP17, KS10]. **Lock-Free** [GEGP17]. **lock-freedom** [KS10]. **locking** [AFF06]. **LOCKSMITH** [PFH11]. **Logic** [AS89, AFV98, Apt81, BNNN22, BGL93, BL87, BCD90, BDJ13, BMPT94, CS04, CES86, CFM94, DW89, Deb89, DL93, Deb95, DJP+16, JPP91, Kar84, LS84, Lam94, MW84, MSJ94, MMG92, MPLM23, PZ22, SS98, Sok87, TK94, TB95, dBH21, BBTS07, BMR01, BCG+07, BdlBH99, CU08, CG86, CSS99, DDV99, DPPR00, GHB+96, GW99, HVB+99, HPMS00, KWL09, LMD98, Leu04, PM06, RKRR04, SRW02, Yin11, dHB+96]. **Logical** [BNN18, GGL15, GS98, TY18, RSL10, Tar07]. **Look** [DP82, GMN+21]. **Look-Ahead** [DP82]. **Lookahead** [KM81, MF88]. **Loop** [BAC16, CS87, MCT96, Sit79, RKSR12]. **Loops** [BAGM12, Boo82, CK94, DB85, FTJ95, Hav97, Wat91, Ano02b, LS04, LSLR05, Ram99, RDG08, SGL96, UM02]. **LoRe** [HMY+24]. **low** [CSCM00]. **low-end** [CSCM00]. **Lower** [FNBG20, PW94]. **LR** [LaL84, ADGM91, BL94b, BF87, CPRT02, DMM88, Jef03, JP17, KC01, LaL81, SS82, ST00b]. **LR-based** [KC01].

M [Bur91, Mul92]. **M-LISP** [Mul92]. **Machine** [CGJ+97a, Cat80, GNS+15, Gie83, Han94, JJCO19, LR13, ML80, RF97, SS98, SDB20, Wal92, Zav85, Ano02a, CEG07, CF04, HK07, KN06, Oho07, RRB19]. **machine-checked** [KN06]. **Machine-Code** [LR13]. **Machine-Independent** [ML80]. **Machine-Learning** [JJCO19]. **Machine-Specific** [Gie83]. **machinery** [FKW00]. **Machines** [ACW90, Bee94, CGST95, GC86, KK98, PS93, PP91, Rob79, RCRH95, AY01, AG04, ABE+05, ABS09, TSY00, Pur91]. **Made** [LM22]. **Madsen** [Ell82, SM82]. **Magma2** [Tur84]. **Maintenance** [GKL94]. **Making** [JC97, Loc13]. **malware** [PCJD08]. **Management** [JP81, Mur91, SDB20, van88, BP12, WCM00, Zho96]. **Managing** [Bob80]. **Manifest** [SIG17]. **manipulating** [YS10]. **Manipulation** [DVLM15]. **Manipulations** [SBS22]. **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]. **Measures** [NcS20]. **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, CBMO19, FSH23, KZC15, KK98, KRS88, LB22, 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, VMLY22, 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]. **Microprocessors** [BNV+21]. **Middle** [BDP14]. **Middle-End** [BDP14]. **Might** [Bee94]. **migration** [Piq96]. **Minification** [HLH19]. **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, CBMO19, HM93, HT04, PS03, RD13, Spo86]. **Mobile** [LS03, VHB+97, BCC04, KS10, SWU10]. **mod** [Bou92]. **Modalities** [SV20]. **mode** [PS08, ZP10]. **Model** [AY01, Ang89, BK11, BL87, BGP99, CMPP23, CGL94, DLR16, ES97, GS98, GG85, GL94, HMY+24, Han81a, HW82, Hol87, JB20, JJCO19, 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, ADG+21]. **Models** [FSH23, GJ93, KZC15]. **Modern** [BCF04, LMM21, YW22, RAB+07]. **Modes** [Deb89]. **modest** [LS08]. **Modification** [Lei90, RLS+01]. **Modula** [EO80]. **Modular** [AG04, BMPT94, CDK+18, EMH20, GL94, HRV+23, JBK18, Jag94, KKM90, LN15, MBC04, Wei89, YB85, dJKVS12, KV00, MFRW09, MOS07b]. **modularity** [BA99]. **Module** [PAS+15, RD13]. **Modules** [CL95, HW82, Lam83, HL05]. **Modulo** [FSH23]. **Monadic** [DG19, MH04]. **Monitors** [BLH12, BH05b]. **Monolingual** [HK85]. **Monte** [FL15]. **Morel** [Sor89, Dha91, DS88]. **Morphing** [HS11]. **Morris** [Wis79]. **Mostly** [YF09, BBYG+05]. **Motion** [KRS94, Hai98]. **MPI** [FJK+17, TSY00]. **Multi** [Ano18, GSS+18, ITF+22, YGRBA23, MF09]. **Multi-Cores** [YGRBA23]. **Multi-Language** [Ano18, GSS+18, MF09]. **Multi-threaded** [ITF+22]. **Multialgebraic** [WM95]. **multidimensional** [RDG08]. **MultiJava** [CMLC06]. **Multilisp** [Hal85]. **multimethod** [DAS98]. **Multimethods** [CL95]. **Multiparty** [JS94]. **Multiple** [ASF17, NSTD+15, SJW23]. **Multiply** [FTJ95]. **Multiprocess** [Lam79, Lam80]. **Multiprocessing** [ABR81]. **Multiprocessor** [GP81]. **Multiprocessors** [Cha93, KRS88]. **Multisource** [MMR95]. **Multithreaded** [EGP14, JBK18, JSB+12, KKW14, NR06]. **Multivariate** [HAH12]. **Multiway** [Cha87, Van96a, Van96b]. **munch** [Rep98]. **Mutandis}** [SHB+07]. **Mutatis** [SHB+07]. **Mutual** [LH91, ABHI11]. **Mutual-Exclusion** [LH91]. **Myths** [Gor04].

n [CKT86]. **Naming** [BDP93]. **Natural** [GZ04, dJKVS12, ACE96]. **Neighborhood** [BG89a]. **Neighborhood-Constrained** [BG89a]. **Nested** [Cha93, DDMP22, NB99, ACM11]. **Nesting** [Hav97, Boy10]. **Nests** [BAC16]. **Net** [JTM98]. **Network** [WGS92, WGS93]. **Networks** [CGJ97b, GC86, KRS84, dBB85]. **Newtonian** [RTP17]. **Nicholson** [FA93]. **No** [Ano18, TGT20]. **node** [JC97, UM02]. **Nodes** [CF95, Han81a]. **Nomadic** [SWU10]. **Nominal** [CU08]. **Non** [CFG19, DL18, LLK+17, Mye18, BS88]. **non-** [BS88]. **Non-Deterministic**

[Mye18, DL18]. **Non-polynomial** [CFG19]. **Non-Statistical** [LLK+17]. **Noncanonical** [Tai79]. **Noncorrecting** [Ric85]. **Nondeterminate** [TK94]. **Nondeterminism** [Ber80, CCEG23, Hes88, WM95]. **Nondeterministic** [QG95, MT08]. **Noninterfering** [HPR89]. **nonnumerical** [ME97]. **Nonprocedural** [PPS79]. **nonrectangular** [JLF02]. **nonscalars** [CRN+08]. **Nonsequentiality** [Bar81]. **Nonstrict** [Blo94]. **Nonterminating** [ML21]. **Nontermination** [PM06]. **normal** [LMD98]. **Normalize** [CRN+08]. **norms** [BCG+07]. **Notation** [Rem81, Wil82b]. **Note** [Com80, CM93, MS88, WST85, Coh85, Pal11b, YK97]. **Notes** [Sku95]. **Nothing** [BDH+16]. **Notion** [LW94]. **NP** [Hor97]. **NP-Hard** [Hor97]. **NQLALR** [BS88]. **nulled** [SJ06]. **Number** [Ste22]. **Numbers** [GLR83]. **numeric** [Hau96].

O [ABPS98, Car95]. **Object** [DF84, GMP24b, HU96, KH92, Ryu16, Ste22, WCW90, WCW91, BSvGF03, DMM01, DDDCG02, FM99, GPWZ08, HBM+06, JPS+08, LPSO04, Piq96, WJS+00]. **Object-Based** [KH92]. **Object-Oriented** [HU96, Ryu16, Ste22, GMP24b, BSvGF03, DMM01, JPS+08, WJS+00]. **Objects** [AM85, CJK95, HF87, HW90, Her93, SM89, VHB+97, Wal80, Wal81, Win84, GPV07, HBJ98, KF00, Sto04, WJS+00, Sku95]. **obligations** [DSW11]. **Observability** [Gaz83]. **Observation** [LWR21]. **Observations** [Sha82]. **Obsidian** [COE+20]. **Occur** [AP94]. **Occur-Check-Free** [AP94]. **Octagons** [GMN+21]. **Off** [SBB+19]. **Offline** [CG04, GJ05]. **Old** [AL94]. **Old-Fashioned** [AL94]. **Omnisemantics** [CCEG23]. **On-Line** [Bal94]. **On-The-Fly** [CF95, BA84, URJ18, LP06, PBK+07]. **One** [Bak82, BG89b, VHM+01]. **One-Pass** [Bak82]. **one-way** [VHM+01]. **online** [CG04, HVDH07]. **only** [PZJ05]. **OO** [RSPS23]. **Opacity** [QG95]. **OpenJDK** [YW22]. **Operating** [HLH+23, HM84, BCP08]. **Operational** [BLRS12, Han94, MF09]. **Operations** [AKBLN89, CK94, Lee86, LS79]. **Operator** [CMPP23, 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** [BPRB23, Bee94, BBC16, Blo94, BAC16, BT93, DF84, DP97, DDH84, Dha91, DS88, FOW87, HG83, HOYY18, Pem83, PP94, RRB19, SS82, Sor89, TvS82, Web95, Ass00, BHK07, KBC+99, KF03, PE08, TVA07, ZP10, CG95, LaL84, OKN06]. **Optimization-Aware** [BPRB23]. **Optimizations** [CC95, JSB+12, CGS+03, CKT86, GMP+00, SYK+05]. **optimize** [DMM01, VBLG04]. **Optimized** [CM93, Cop94, Hen82, WST85, DS98, UM02]. **Optimizer** [DF80, FSS83, HRL+23, DF81]. **Optimizers** [Gie83]. **Optimizing** [CEG07, KMM+98, LLOY23, LSLR05, ML80, NSZS13, QR00, BGKR09]. **Or-Parallel** [GJ93]. **orchestration** [PE08]. **Order** [AC94, AD98, Bur84, CJK95, DP97, DJP+16, JPP91, JS94, SS98, BBTS07, DF11, FPS19, MPLM23, SKS11, SV19, SP97]. **Ordered** [SCR24]. **Ordering** [FSH23, GS99]. **Organization** [Han81a]. **Oriented** [Bor81, Dar90, Ell82, FFF+18, GTWA14, GKL94, GP81, HU96, Ryu16, SM81, Ste22, Tur84, YB87, YB88, BSvGF03, DWWW08, DMM01, GMP24b, JPS+08, WKD04, WP10, WJS+00]. **origins** [San09]. **OSI** [CDFP89]. **Output** [Ber80, BS83]. **overflow** [KOE+06]. **overhead** [BP12, SS96]. **overlays** [SWU10]. **Overload** [Bak82]. **overloading** [SS05b]. **Overview** [AOC+88]. **ownership** [DDM11, SS96]. **Oz**

[VHB+97].

Package [Hil88]. **Paper** [GM81]. **Paradigms** [JZX+24]. **Parallel** [ANP89, BG22, BOV85, BO94, BE13, Cha93, CGST95, CMN91, CL94, DS83, Fos96, GLO88, GJ93, GPA+01, HCHP92, HIT97, JF81, Kna90, LHR19, Mis94, NSZS13, OA88, Rao94, SS88, VMLY22, YGRBA23, BBYG+05, CG86, GB99, HBJ98, KSV96, LK02, MVV+01, RR03, YF98]. **Parallelism** [Bur84, GP95, KSV96, NB99, PW94, TCVB14, YBL16]. **Parallelization** [BAC16, BDJ13, PP94, BdlBH99, HAM+05]. **Parallelizing** [HP96, ME97, RD97]. **Parameter** [Gaz83, Zho96]. **Parameterization** [TWW82]. **Parameterized** [CGJ97b, CK93, Gaz83, RKSR12]. **Parametric** [HFC09, MMG92, SRW02, IV06]. **Parametricities** [DPP22]. **Parenthesis** [AS80]. **Parlog** [CG86]. **Parsed** [Wad90]. **Parser** [DDH84, JKT23, JP17, LaL84, SS82]. **Parsers** [BN99, LaL81, MYD95, PK80, CPRT02, SJ06, ST00b]. **Parsing** [CH87, DMM88, Fis80, GM79, Lar95, RH87, Sam80, SJW23, WG98, KC01]. **Part** [LaL81, PA85, PA86a, PA86b, Apt81]. **Partial** [AFV98, CP17, CK93, DS88, Gom92, KCL+99, SCP23, Sor89, ADR06, BP12, CG04, GJ05, LMD98, Leu04, ST00b]. **Partially** [BLH12, Kob98, VP23, RRSY08]. **partially-flow-sensitive** [RRSY08]. **partitioning** [RM07, YF09]. **Parts** [Son87]. **Pascal** [LS79]. **Pass** [Bak82, BM94]. **Passing** [BDM15, Gaz83, SS84, VMLY22, CSW06, Gor04, Zho96]. **Passive** [AKP94]. **Passport** [SSFZ+23]. **past** [PM09]. **Path** [Blo94, CIJGP18, SMP10]. **path-length** [SMP10]. **Patient** [FFF+18]. **Patient-Oriented** [FFF+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+16, PB80, URJ18, VP23, KF00, PE08]. **Performed** [Coh91, Wir91]. **Permission** [BPP16, SNS+14]. **Permission-Based** [BPP16, SNS+14]. **permissions** [Boy10]. **Persistent** [AM85]. **Petri** [JTM98]. **Petri-Net-Based** [JTM98]. **Phases** [Bar81]. **Philosopher** [CM84]. **Philosophers** [MS88]. **Pi** [BG22, HR02, KPT99]. **Pi-calculus** [BG22, HR02, KPT99]. **pict** [SWU10]. **Pictures** [MH86]. **Pipeline** [HG83]. **Pipelined** [BG89b, LPP01, RDG08]. **pipelining** [ME97]. **pitfalls** [Mon08]. **PL** [CD79, CZ84, FFF+18]. **PL/CS** [CD79]. **PL/CV3** [CZ84]. **place** [GW99]. **Placement** [DP93, GS99, vHK00]. **Platform** [TCP+17]. **pluggable** [MME+10]. **Plurals** [Ste22]. **Pluto** [BAC16]. **Point** [CK94, Fat82, SBB+19, GJ05, Hau96, Mon08]. **Pointer** [LTMS20, LHR19, LS79, RR03, SDB20, HBCC99, HVDH07, PKH07, RLS+01]. **Pointers** [SS13, RR05]. **Points** [GKM20, WKD04]. **Points-to** [GKM20]. **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]. **PolyMage** [JB20]. **Polymorphic** [BMR05, Dug99, Gor21, HT04, Hen93, KTU93, LO94, LY98, Oho95, SIG17, SV96, TY21, WJ98, BSvGF03, DWWW08]. **Polymorphism** [Bur90b, MDCB91, HFC09]. **polynomial** [BAL07, CFG19]. **PolyTOIL** [BSvGF03]. **polyvariance** [LMD98]. **Polyvariant** [AC94, WJ98]. **POP**

[FFF+18]. **POP-PL** [FFF+18]. **Portable** [DDH84, Han81b, HK07]. **Porting** [HLH+23]. **Possibly** [JP17, ML21]. **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+15, SS13, TSL+02, WC97, Bou05, DR05, DVD07, DGS97, JNZ06, PFH11]. **Practice** [KRS94, Ryu16, Bla03, DRSS96]. **Pragmatic** [BDH+16]. **Pragmatics** [Gom92]. **Pre** [OLH+16]. **Pre-Analysis** [OLH+16]. **Precedence** [CMPP23, Hen83, LdR81]. **Precise** [CDK+18, FJK+17, GKM20, Hor97, TN19, PHP02]. **Precise-Yet-Efficient** [TN19]. **precision** [ZGZ05]. **Precondition** [Boo82]. **Predicate** [Lam90, BMR05, Bou05, Bou06, MFRW09, MMS96, PR07]. **Predicates** [CBDGF95, Lam88]. **predictable** [SHB+07, HK07]. **Prediction** [CGJ+97a, CEG07, YS99]. **Predictive** [FJK+17]. **Prepaging** [FK85]. **Prescription** [FFF+18]. **Presence** [AWW95, CF94, KTU93]. **preserving** [DHS09, LST02]. **pretenuring** [BHM+07]. **Pretty** [Chi05]. **Prettyprinter** [Wat83]. **Prettyprinting** [Opp80]. **Primitive** [App15]. **principals** [TZ07]. **Principled** [LTMS20]. **Principles** [Bou88, DRSS96]. **printing** [Chi05]. **Priority** [CH90, Fid93]. **Priority-Based** [CH90]. **Prisma** [RKW+23]. **Privacy** [BKOZB13, LVRG21, TDA+23]. **Privileges** [Min84]. **Probabilistic** [AB20, BKOZB13, CFNH18, DG19, HSP83, MMS96, OGJ+18, Rao94, SV19, BH99, PPT08]. **Problem** [ADG+94, CM84, DS88, Gho93, LSP82, MS88, Pet82, Pet83b, PB97, Sor89, FGM+07a, Wu04]. **Problems** [Bac84, CFNH18, DP93, MMR95, SRW98]. **Procedural** [HF87, Lin93, VSS94]. **Procedure** [CDK+18, GS99, GL80]. **Procedure-Modular** [CDK+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** [EMH20, RTP17]. **Production** [Wad90]. **Productivity** [Sij89]. **Profile** [BHM+07, YUW02]. **Profile-based** [BHM+07]. **Profiles** [VP23]. **Profiling** [ASAVF19, BL94a, BPRB23, SP97]. **Program** [Bal94, BNNN22, Bar85, BAL07, BKB80, Col84, DKKL18, Der85, FPS19, Fea82, FOW87, FT94, FL91, HSP83, HKR94, HSD22, HLH+23, Jen97, JJCO19, KKW14, KWL09, Lam83, Lam88, LLOY23, LFF14, LWR21, MS83, MW80, Mis81, Nie85, PP94, PPS79, Rem81, RTP17, SBS22, TSY00, Wat94, Wey83, ZSD09, Ass00, DDD05, GZ04, KF03, LH08, NS13, Pau01, RAB+07, SLC03, WZ07, WN08, YF09, DKV07]. **Programming** [AGT89, Ano18, AR84, ABPS98, BS86, BPP16, BHM+19, BL87, Bir84, Bor81, BMPT94, BWP87, BCEM15, CHY12, COE+20, CL94, Dar90, DFR15, DGL+79, DHH+24, Dug99, FFF+18, Fos96, FL15, GTWA14, GMP24b, HMY+24, Har80, HK85, HO82, Kai89, KH92, Lee86, LVV+83, LMM21, LVRG21, MK94, Mye90, OGJ+18, Pet83b, RCS93, SS84, Ste22, SNS+14, SZBH86, TK94, TGT20, YGRBA23, ZSO21, ABH06, BMR01, Bou06, BdlBH99, CU08, CG86, CKT86, DWWW08, DPPR00, GW99, HBJ98, JPS+08, KGMO04, MVV+01, MTSS09, MQ05, Tra08, VWJB10, WKD04, WJS+00, Bir85, SWU10]. **Programming-in-the-Large** [MK94]. **Programs** [AWW95, AK87, AFV98, AB20, AR80, AP94, AC94, BL94a, Ban87, BGL93, BC85a, BC85b, Ber94, BCD90, BE94, BE13,

BEF+16, CR87, CB80, CM86a, Cha93, CFNH18, CFG19, CEW14, CMN91, Cla80, CFM94, CS87, DSFG21, DL18, DGMP97, DW89, Deb89, DL93, Deb95, DP97, Dil90, EMH20, EGP14, FJK+17, FNBG20, GG85, GM81, Har80, HCHP92, HPR89, How80, HIT97, ISY88, ITF+22, JBK18, JW17, Jon83, JF81, Kna90, Lam79, LS83, MSJ94, ML21, MTK21, MRGP20, MH86, Mye18, NSZS13, OA88, OL82, PS92, QL91, Rao94, SS98, Sch82, SSS81, SS88, TOUH21, TN19, VMLY22, Ven95, Wad90, Web95, Wil82a, AE01, AAE04, BCG+07, CSW06, CSS99, DP99, DDV99, DS98, DMM01, EGM01, GM12, GHB+96, GH97, GPA+01, Hau96, HPMS00, JPS+08, KSV96]. **programs** [LMD98, Leu04, LS09, MF09, NR06, PM06, RKRR04, RR03, San96, VJB12, WM12, YS10, Yin11, dHB+96, Bur84, Lam80]. **PROLOG** [LV94, AP94, AB94, BC91, CH87, FA93, GPA+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, HRV+23, JW17, LY98, Oss83, GRSK+11]. **Propagation** [SR95, WZ91, Apt00, CP96, SS05a, SS08, SS09]. **Properties** [ACW90, AS89, CIJGP18, Kar84, LM18, OL82, RY88, TB95, Wei89, YS10]. **Prophecy** [LM22]. **Proposed** [Fat82]. **prossima** [MP10b]. **Protected** [PAS+15, WJS+00]. **Protocol** [SL92, YS97]. **Protocols** [MB83, RKW+23, BFGT08, SS96]. **Prototype** [WCW90, WCW91]. **Prototypes** [HW82]. **Provably** [SDB20, GB99]. **Provenance** [ZSS20]. **provenly** [AAD+07]. **Proving** [DGMP97, GC86, Hen86, Kar84, Lam79, Lam80, OL82]. **Pruning** [BN99]. **PSG** [BS86]. **PSO** [FSH23]. **publish** [Eug07]. **publish/subscribe** [Eug07]. **Pure** [BNN18, HU96, Pip97, Tar07]. **Purpose** [App94b, HSS+14, Spo86]. **Pushdown** [CBMO19, JKT23]. **PYE** [TN19].

qualifiers [FJKA06]. **Qualitative** [CFNH18]. **Quality** [BHM+19]. **Quantification** [Vol91, Bur91]. **Quantified** [Gro06, STS03]. **Quantitative** [CFNH18]. **Quantum** [FDY12, HRL+23, BH99, Yin11]. **Queries** [Bal94, CGG+19]. **Queuing** [BB79]. **Quiescence** [CM86a].

R [CKT86, KMM+98, AW82]. **R.** [Tic88]. **race** [AFF06, PFH11]. **Races** [KZC15]. **Random** [AS80]. **Randomized** [TOUH21]. **Range** [CG95]. **Rank** [Dam03]. **Ranking** [Lee09, TOUH21]. **Ratio** [CK94]. **rational** [GS11]. **rationale** [CMLC06]. **Reach** [FKW98]. **Reachability** [LZR22, NS13, TOUH21]. **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, DSFG21, Lam88, LN15, Rao94, SDB20, dBH21, TSBR08]. **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, GHH+19, PK80, Ric85, dJKVS12]. **recurrences**

[VJB12]. **Recursion** [AK82, Col84, Hen93, KTU93, Mis94, YK97]. **Recursive** [AC93, AK82, Ban87, CFG19, Coh83, Coh85, LBN17, Sij89, ZZO22, ABE+05, AM01, CF04, Dug02, Pal98]. **Recursively** [BE13]. **Reduce** [BN99, MYD95, BALP06, KOE+06, SS96]. **reduced** [SG04]. **Reducible** [Hav97, JC97]. **Reduction** [Bee94, Bur84, FRW90, Geo84, KLS92, Mul92, NN86, CSV01]. **Redundancies** [Sor89, DS88]. **redundancy** [KCL+99]. **Redundant** [Coh83, Coh85]. **Reentrant** [Bob80]. **Reexamination** [CG95]. **Refactoring** [Ste18, TFK+11]. **Reference** [Bob80, Pea21, Wis79, KSK07, KOE+06, LP06, MDJ05]. **reference-counting** [LP06]. **References** [Han92, TGT18, TGT20, SV96]. **Referencing** [LS81]. **Referential** [QG95]. **Refinement** [BBF+11, BKL+97, BCEM15, CM86a, DGL+79, EKD23, GEGP17, JLP+14, MRG88, SL92, AG04, QG95]. **reflecting** [HS11]. **reflection** [SW97a]. **Regeneration** [SR21]. **Region** [TB98, SYN06]. **region-based** [SYN06]. **regions** [RR05]. **Register** [BCT94, CH90, GSO94, JLF02, LCBS19, RDG08, SH89, GA96, HCS10, LGAT00, PM04, PS99, PF96, TP04]. **registers** [ZP07]. **Regular** [CC97, HVP05, KBP22, LaL81]. **relating** [ABC+21]. **Relation** [LBN17, MTG80]. **Relational** [BNNN22, BKOZB13, CB80, GS98, TLHL11, JJD98, JLRS10]. **Relations** [ELS+14, HT86, LH08]. **Relationship** [BS88]. **Reliability** [LM18, WN08]. **Reliably** [TCP+17]. **Rely** [GEGP17, LFF14, SZLY21]. **Rely-Guarantee** [GEGP17, SZLY21]. **Rely-Guarantee-Based** [LFF14]. **Remembrances** [PM09]. **Remote** [BCP08, SG90]. **Removal** [AK82]. **Rendezvous** [Cha87]. **Renvoise** [Sor89, Dha91, DS88]. **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+79, Mul92, SM89, Wad90, Wan82, Mil85]. **Representation-Independent** [Mul92]. **Representations** [Lam87, RF97, Wal80, Wal81, BGP99]. **Reproduction** [BHM+19]. **Repulsing** [TOUH21]. **reshaping** [ZCG+07]. **Resilient** [GHH+19, WL85]. **Resolution** [ABR81, Bak82]. **Resolved** [SIG17]. **Resource** [CS95, Cla80, IK05, MQ05, BDFZ09, CEI+07, HR02, HAH12]. **Resources** [And81, FLBB89]. **Respect** [Gaz83]. **Response** [Tic88]. **Responsibility** [DC22]. **Responsiveness** [HU96]. **Restores** [Wis79]. **Result** [TB95]. **Results** [Ven95, BGP99, SYYH07]. **Retargetable** [DF80, DF81, MV87]. **Retention** [LS81]. **Rethinking** [LHR19]. **retrofitting** [NCH+05]. **Return** [SDB20]. **reuse** [DNS+06, GW99, ZSD09]. **Reversal** [ACS84]. **Reverse** [PS08]. **Reverse-mode** [PS08]. **Revised** [SIG17]. **Revision** [FM87b]. **revisited** [MDJ05, Zho96]. **Revisiting** [DI09, ZZO22]. **Rewrite** [FKW98, Ass00]. **Rewriting** [KKSD94, BCM99, DDD05, FKW00, GRSK+11, MMM+07]. **Right** [KS83, LaL81, SJ06]. **Rigorous** [SBB+19]. **Rings** [BP89, Hua93]. **RISC** [PS93]. **Rivieres** [Hen83]. **RMI** [MVV+01]. **Robust** [LS83]. **Robustly** [PG21]. **Robustness** [GMP24a]. **Roever** [Moi83]. **role** [Apt00]. **Roman** [PB97]. **Round** [SBB+19]. **Round-Off** [SBB+19]. **Rounding** [FL15]. **Row** [MM89]. **RSMs** [CGG+19]. **rule** [HQRT02]. **Rules** [GL80, JTM98, SS84, LS09, SSD09]. **Run** [ISY88, TZ07, GMP+00]. **Run-Time**

[ISY88, TZ07, GMP+00]. **Runtime** [Ano18, BLH12, BEF+16, FNBG20, GSS+18, ISIRS22, TCVB14, BH05a, TSY00]. **Rust** [MTK21, Pea21]. **RustHorn** [MTK21].

S [HCW82]. **S/SL** [HCW82]. **Safe** [AWW95, Dug02, HMY+24, JW17, LMM21, PG21, SDB20, AFF06, BSvGF03, LS03, Loc13, NCH+05, SA00, ZCG+07, MH06, SHB+07]. **Safe-by-default** [LMM21]. **safe-for-space** [SA00]. **Safer** [COE+20]. **safety** [FF08, YS10]. **same** [SS05a]. **sampling** [PPT08]. **Santa** [WP10]. **Sapphire** [URJ18]. **Sather** [MOSS96]. **Satin** [VWJB10]. **satisfaction** [DF11]. **Satisfiability** [FSH23, XA07]. **satisfying** [Van96a, Van96b]. **Saturn** [XA07]. **Scalability** [TCP+17]. **Scalable** [FT94, GKM20, ZSS20, XA07]. **ScalaExtrap** [WM12]. **scale** [ZSS20]. **Scaling** [TCP+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, LCBS19, NB99, NSTD+15, PS93, TCVB14, Ban11, ME97, YF98]. **schema** [RLS+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, LLOY23, BH99, SS05a]. **Searching** [CC97]. **Section** [Mül21, Wol92]. **Secure** [ABC+21, BCEM15, PAS+15, PG21, BBF+11, HY07]. **Securely** [RB94]. **Securing** [BNV+21]. **Security** [TGT18, TGT20, BFGT08, BFG08]. **see** [BR10]. **Selection** [DF84, SSS81]. **Selective** [LTMS20, Min84, OLH+16, ME97]. **Self** [BP89, DHS09, Gho93, Gom92, NN24, ABB+09]. **self-adjusting** [ABB+09]. **Self-applicable** [Gom92]. **Self-Stabilization** [Gho93, DHS09]. **Self-Stabilizing** [BP89, NN24]. **Semantic** [AAR+10, AWW95, GGL15, LCK+22, ML21, MH06, HCW82]. **Semantics** [ABHI11, Ans87, AB94, AW82, BGL93, Ber94, BLRS12, Bou88, Boy10, CPS93, CD79, DHH+24, 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+16, HBS22, PKH07, Ram00, Rep00, RRSY08, VP23]. **Sensitivity** [FL15, KRR18, LTMS20]. **Separating** [DDM11, Ste22]. **Separation** [BDJ13, DJP+16, OYR09, BBTS07, PZ22]. **Separators** [GSO94]. **Sequences** [GSW95, LWR21]. **Sequent** [ABS09, Miq19]. **Sequential** [AFdR80, Ber80, Gor21, GLR83, HM84, KS79, MC82b, Moi83, Sou84]. **Sequentialization** [ITF+22]. **Series** [Wat91]. **Served** [LH91]. **server** [LDM07]. **servers** [BBYG+05]. **service** [CMS03]. **Services** [CHY12, RB94, BFG08, CGP09]. **Session** [DDMP22, KBP22, Pad19, TY18]. **Session-Based** [TY18]. **Sessions** [TY21]. **Set** [Sha82, FF99]. **set-based** [FF99]. **SETL** [DGL+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, LB22, 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, SCP23, KWL09, RLS+01, TA08b]. **Side-channel** [SCP23]. **side-effect** [RLS+01]. **sign** [KKN06]. **signal** [BH05b]. **Signatures** [BR97]. **Signedness** [GNS+15]. **similar** [AE98]. **Simple** [Boe85, GLO88, JP17, LM22, SH89]. **simpler** [BKRW98, BKRW05]. **Simplification** [LZR22, NO79]. **Simula** [Lan80]. **Simulating** [KKSD94]. **Simulation** [AMT14, Bar81, Bor81, LFF14, HQRT02]. **sin}** [Lam90]. **Single** [BM94, CFR+91, JBK18, GPF08]. **Single-Assignment** [BM94]. **Single-Pass** [BM94]. **Single-Threaded** [JBK18]. **Sit** [AKNP17]. **situations** [WN08]. **Size** [BA08, BEF+16, JB20, Lee09, LDK+96]. **Size-change** [BA08, Lee09]. **Sized** [DG19]. **Sketches** [HSD22]. **Slicing** [AB20, AHJR14, CF94, DL18, GH97, HRB90, ML21, Mye18, Ven95, WZ07, BHK07, GZ07, NR06, RAB+07, WR08, ZGZ05]. **SLR** [BS88, Tai79]. **Small** [BNV+21, FLBB89, LH91, Pet83b]. **Smart** [Tic86]. **Smarter** [SK88, Tic88]. **Smooth** [CCEG23, JF81]. **Soft** [WC97]. **Software** [ACM11, AW85, Ber94, DAW88, HMY+24, HSS+14, How80, JW17, PXL95, PPS79, Pur94, Wal92, YBL16, CTT07, HN05, LS98, ME97, NCH+05, RDG08, SHB+07, SRM10]. **Software-Defined** [Wal92]. **Soininen** [LaL84]. **Soisalon** [LaL84]. **Soisalon-Soininen** [LaL84]. **Solution** [ADG+94, DS88, Gho93, Pet83b, Sor89, WP10]. **Solving** [GS11, HLH19, HSD22, NSTD+15, SRW98]. **Some** [AB94, AK82, Sha82, Sor89]. **Sometimes** [Gri79]. **Sound** [LLK+17, LCK+22, RSPS23]. **Soundness** [Sok87]. **source** [HBG+09]. **Space** [BP12, BB79, FLBB89, JP81, NB99, RD87, YF98, LS09, SS05a, SA00]. **Space-Efficient** [JP81, NB99]. **Space/time** [YF98]. **Space/time-efficient** [YF98]. **spaces** [JLF02]. **Span** [LS80, Rob79]. **Span-Dependent** [LS80, Rob79]. **Spanning** [GHS83]. **Sparse** [OHL+14]. **Spatial** [NSTD+15]. **Special** [Ahm20, Mül21, Wol92, Yos22, Sag07]. **Specialization** [AHJR14, BCP08, GJ05, HT04, SLC03]. **specialization-point** [GJ05]. **Specializing** [BCD90]. **Specific** [ASAVF19, Gie83, Tra08]. **Specification** [BCM99, CDFP89, EO80, Fea87, GMH81, Jon94, Kam83, LN15, Lin93, LJ99, Loe87, Mal82, Mor88, PPS79, RY88, TWW82, LP99, LPSO04]. **Specificational** [MB99]. **Specifications** [AL93, AL95, BNN18, CES86, DB85, Gaz83, Loe87, MW84, MB83, Rei83, Sch85, Win87, Zav85, Žic94, vPS81, JJD98, YS97]. **Specifying** [GM81, Lam83, RF97]. **Speculation** [YBL16, GB99]. **speculative** [KOE+06]. **SPL** [HSG17]. **Split** [Com80]. **splitting** [JC97, UM02, WJ98]. **SPMD** [WM12]. **Squeezers** [ISIRS22]. **SR** [AOC+88]. **SSA** [BDP14, GSW95, KCL+99]. **SSA-Based** [BDP14]. **SSProve** [HRV+23]. **Stabilization** [Gho93, DHS09]. **Stabilizing** [BP89, NN24]. **Stack** [CGS+03, FG03, LaL81, SDB20, CF04, Zho96]. **Stack-Controlling** [LaL81]. **Standard** [Fat82, HM93, Qia00, Blu99]. **State** [ACW90, BLH12, CES86, GC86, PP91, Pur91, Zav85, AY01, ABE+05, MBT09]. **Statement** [Ell82, Mor88, SM81]. **Statement-Oriented** [Ell82, SM81]. **Statements** [CF94]. **States** [ADGM91, CBMO19]. **Static** [AKNP17, AC94, BM94, CGJ+97a, CF94, CFR+91, DL18, Deb89, HOYY18, LLK+17, LST98, MRGP20, MOS07a, Mye18, PW94, SBE+19, YS99, ZMVPJ17, CEI+07, GPF08, GZ04, HO07, PSS05, PFH11, RSL10, VJB12,

WCM00, YF09, AFF06, FFLQ08]. **Statically** [ACPP91]. **Statistical** [LLK+17]. **Statistics** [Lan80]. **Staveren** [Pem83]. **Steensgaard** [Ell82, SM82]. **Steensgaard-Madsen** [Ell82, SM82]. **stencil** [LS04]. **Step** [Col84, TVA07]. **Steps** [Jon83]. **Stepwise** [CM86a, SL92]. **Stevenson** [Pem83]. **Storage** [BBC16, Bre89, JP81, LDK+96, Mur91, Rob79, Sip82, KOE+06, TVA07]. **Strategies** [Bir84, Bir85, Geo84, NN86]. **Strategy** [Bre89, PK80, WSH15, ZSS20, GS11]. **Stratified** [SS98]. **Stream** [HSG17]. **streams** [CFP+04]. **strength** [CSV01]. **Strict** [Bee94]. **Strictness** [Bee94, SR95]. **String** [GH80]. **Strings** [AS80, KS88, KS89, ADR06, KK07]. **Strong** [KZC15, PZ22]. **Strong-separation** [PZ22]. **Structural** [SZBH86, MTSS09]. **Structurally** [HS11]. **Structure** [BC79, GKL94, HM93, Mis94, MWB94, She91, HY07]. **Structure-Oriented** [GKL94]. **Structured** [BM94, CHY12, GD82, Har80, LS81, Mur91, RR03]. **Structures** [ANP89, Bob80, FL81, GEGP17, RCRH95, SSS81, LPSO04, RAB+07]. **Study** [BHM+19, FTJ95, BHK07, BdlBH99, DF98, KF03, LS98]. **Style** [BDM15, LR19]. **Sublanguage** [DGL+79]. **Sublinear** [RD87]. **Sublinear-Space** [RD87]. **Submodule** [MB83]. **Subroutines** [SA99]. **subscribe** [Eug07]. **Subscript** [CG95]. **Subsequence** [Han92]. **Subset** [BL87]. **Substrings** [BL94b, Han92]. **subtype** [Duc08, KR01]. **Subtypes** [Vol91, Bur91]. **Subtyping** [AC96, AC93, GGL15, LN15, LR19, LBN17, LW94, XBOS20, ZZO22, GZ05, IV06]. **Subtyping-Relation** [LBN17]. **SUIF** [HAM+05]. **Summarization** [SCS24]. **Supercompiler** [Tur86]. **Superimposition** [Kat93]. **Supermartingales** [TOUH21]. **Support** [Bal94, DS90, Fea87, LS83, MK94, Wei90, TSY00]. **Supporting** [RCRH95]. **Supports** [ABPS98]. **Suppression** [DS88, FGL94, Sor89, JNGG10]. **Survey** [Apt81, GPA+01]. **Suspension** [CFM94]. **Symbol** [ABR81, Rei83]. **Symbolic** [Dil90, HP96, Hal85, Hen82, NcS20, RR05, SBB+19, YMW97, BGP99, MPM03, CM93, WST85]. **Symmetric** [FY85]. **Symmetry** [ES97, SG04]. **Synchronisation** [CHMY19]. **Synchronization** [Bag89, DJP+16, Her91, KRS88, RS84b, Sch82, CGS+03, DHM+12, Ram00, RD03]. **synchronization-sensitive** [Ram00]. **Synchronizing** [And81]. **Synchronous** [CS87, TLHL11, YGRBA23]. **synchrony** [CS04]. **Syntactic** [BF87, GMZ00, MF88, PK80, Wil82b]. **Syntax** [DMM88, Ode93, Ric85, SSS83, BMR01, CPRT02, Jef03, HCW82]. **Syntax-Directed** [DMM88]. **Syntax-Error-Handling** [SSS83]. **Syntax/Semantic** [HCW82]. **Synthesis** [AE98, AE01, AAE04, Ban87, BDJ13, BKL+97, Cla80, DKKL18, HLH+23, JZX+24, LLOY23, MW80, MW84, MV87, SBS22]. **System** [AFdR80, AW85, BS86, Bou88, CB80, Fea82, GD82, GP81, Han81b, HM84, JMSY92, LR13, ML80, Moi83, MH86, PO95, RD13, SA99, WC97, BH05a, FH04, FM99, HO07, JB06, KS10, MTSS09, NP08, PE08, STSP05, MWCG99]. **Systematic** [DC22, DF98, PSS05]. **Systems** [ABLP93, Ano18, AR84, ACS84, BKS88, BG89a, BDP93, CI84, CDFP89, CBDGF95, CIJGP18, CES86, CPS93, CBMO19, DL18, DAW88, Fea87, FKW98, Gor21, Hen86, HLH+23, Jag94, Jon94, JTM98, Kar84, Kat93, Kau84, Lam84, LW93, Mis86, Mye18, SZLY21, TGT20, WGS92, WGS93, WCW90, van88, Ass00, AE98, BCP08, BCM99, BGP99, CSCM00, DGG97, GS11, TP04, TZ07, YMW97, WCW91]. **Systolic** [Hen86].

T [Žic94]. **Table** [BMW91, PK80, DAS98]. **Table-Drive** [PK80]. **Tabled** [SS98].

Tables [ADGM91, DDH84]. **TaDA** [DSFG21]. **Tail** [DP97, CF04]. **Tail-Call** [DP97]. **tail-recursive** [CF04]. **Tailored** [Kau84]. **Tailored-List** [Kau84]. **Tale** [TY21]. **Tanenbaum** [Pem83, Tan83]. **Target** [Wan82]. **Task** [GP95, NSZS13, RRB19, HBJ98]. **task-** [HBJ98]. **Task-Level** [GP95]. **Task-Parallel** [NSZS13]. **Tasking** [Dil90]. **Tasks** [GP81]. **Taylor** [SBB+19]. **tcc** [PHEK99]. **Technical** [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, MMG00]. **Technique** [AWW95, BN99, BCD+15, JSB+12, KKM90, SSS81, SSS83, JNGG10, KBC+99, RD97, SYN06]. **Techniques** [AK82, CMN91, DP99, GLR83, How80, TWW82, WCW90, WCW91, BHK07, DDD05, DEMD00, LS98, MSRR00, SS96, TSL+02]. **technology** [LS98]. **Temporal** [AS89, CBDGF95, CES86, Kar84, Lam94, MW84, GS99, KWL09]. **temporal-ordering** [GS99]. **temporaries** [RMH06]. **Ten** [Apt81]. **Tensor** [RTP17, SBS22]. **Tentative** [Jon83]. **Tenuring** [UJ92]. **Term** [KKSD94, MBT09, GRSK+11]. **Termination** [AF84, Apt86, BAGM12, BCG+07, CFNH18, CDK+18, DSFG21, DG19, Fra80b, GJ05, HSP83, JBK18, MC82b, TM93, BAL07, BA08, DDV99, GRSK+11, Lee09, PR07, SMP10, Fra80a, Moh81]. **Test** [Wey83, WW95, Duc08]. **Testing** [AMT14, GMH81, TK94]. **Tests** [Coh91, Koz97, Wir91, GZ05]. **Text** [CC97]. **TF** [SBS22]. **TF-Coder** [SBS22]. **Their** [Kam83, LaL84, SS82, PS96]. **Theoretic** [ES97, Sha82, KV00]. **Theoretical** [KRR18]. **Theories** [NSTD+15, Bou06]. **Theory** [AB20, CZ84, FSH23, KD94, KRS94, NBG13, Ryu16, TLHL11, CGP09, MH06, Oho07, Pau01, SS05b, Bla03, FG03]. **ThingLab** [Bor81]. **things** [PM09]. **Thinking** [WLBF16]. **Thinning** [Web95]. **Third** [Wol92]. **ThisType** [Ryu16]. **Thread** [YBL16]. **Thread-Level** [YBL16]. **Threaded** [JBK18, ITF+22, TSY00]. **Three** [DPP22, Oss83]. **Tichy** [Tic88]. **Tierless** [RKW+23]. **Tile** [JB20]. **tiling** [JLF02, LS04, RKSR12]. **Time** [AL94, ABR81, BL94b, BLH12, Coh91, DLR16, HBS22, Hol87, ISY88, Jef85, Lam84, LLOY23, MMG92, PS93, RS84a, RS84b, TN19, Wir91, YR94, Žic94, BAL07, BALP06, BKRW98, BKRW05, DDD05, GH97, GMP+00, GB99, GW99, HK07, LS98, LPP01, LS09, Mil85, Ram99, Rep98, SYK+05, Tra08, TZ07, Wu04, YMW97, LW93]. **Time-bounded** [LLOY23]. **Time-Constrained** [Žic94, LPP01]. **Time-Critical** [PS93]. **time-efficient** [GB99, YF98]. **Time-sensitive** [HBS22]. **Timed** [Žic94]. **Timeout** [Lam84]. **Timing** [LJ99]. **tokenization** [Rep98]. **Tolerance** [LJ99]. **Tolerant** [CS95, Lam84, AAE04]. **Tool** [CPS93]. **Toolkit** [BDFH97]. **toolkits** [VHM+01]. **Tools** [van88]. **Top** [SZLY21]. **Top-down** [SZLY21]. **TOPLAS** [Ano18, TGT20, MP10a, MP10b]. **topology** [DDM11]. **Tortoise** [Dan23]. **Total** [San96]. **Trace** [ABC+21, FGL94, WGS92, Ban11, RM07, SJ03, WGS93, WM12]. **Trace-Based** [WGS92, WGS93, WM12]. **Trace-relating** [ABC+21]. **traces** [HBM+06, WR08]. **Tracing** [BL94a, DLR16, MMM+07]. **tradeoffs** [ZGZ05]. **Trailing** [VR95]. **Traits** [DNS+06]. **Transactional** [URJ18, ABHI11, CFP+04]. **Transactions** [Ano18, HKMN94, TGT20]. **Transducer** [DVLM15]. **Transducer-Based** [DVLM15]. **Transformation** [BKB80, Fea82, FL91, NSZS13, Wat91, RKRR04, San96, TSY00, WZ07]. **Transformational** [BDFH97, Bir84, Bir85, DSW82, OA88, RC03]. **Transformations**

[Bar85, EGM01, Geo84, LdR81, LFF14, MS83, MCT96, Nie85, FGM+07a, KWL09, MOS07a, VALG05, WS97, Hen83, NN86]. **Transformers** [Lam90, MMS96, MBT09]. **TransformGen** [GKL94]. **Transforming** [AWW95, BE94]. **Transition** [PR07]. **Translation** [AK87, BK11, Kat84, Son87, AAD+07, BGKR09, DP99, RC03]. **Transmission** [HL82]. **Transparently** [JSB+12]. **Transport** [Min84]. **transpose** [CRN+08]. **Traversals** [LPSO04]. **Treatment** [YB87, YB88]. **Tree** [AGT89, BOV85, BMW91, DVLM15, DS83, Han81a, Hen83, LdR81, FGM+07a]. **Trees** [Com80, GHS83, MTG80, Sip82, Wad90, ACM11, SGL97]. **Treewidth** [CIJGP18, CGG+19]. **trick** [DMP96]. **Truth** [BDH+16]. **TSL** [LR13]. **TSO** [FSH23]. **tuning** [GMM99, PE08]. **Tuples** [Rem81]. **Tutorial** [GM81]. **Two** [BO94, CDFP89, DPP22, GPWZ08, TY21, FMoPS11]. **Two-dimensional** [GPWZ08]. **two-variable** [FMoPS11]. **Type** [Bur90b, Car95, CEW14, Coh91, CZ84, Dug02, Eug07, HHPW96, HM93, Hen93, KPS92, KTU93, KR01, Lan80, LO94, LST02, LY98, LP00, MRGP20, MP88, NBG13, Pad19, PO95, SA99, SM89, Ste22, TWW82, TGT18, TGT20, Van06, VMLY22, Wal80, WT11, Wir88, WC97, BSvGF03, BCG+07, FJKA06, FGM07b, FM99, FF08, GZ07, GMZ00, HO07, HDH02, HY07, KF10, KS10, NP08, NCH+05, PT00, STSP05, TFK+11, TZ07, Wal81, Wir91]. **Type-based** [Eug07, LP00, BCG+07]. **Type-Driven** [TGT18, TGT20]. **Type-Extension** [Coh91, Wir91]. **Type-Graphs** [KPS92]. **Type-preserving** [LST02]. **Type-Safe** [Dug02, BSvGF03, NCH+05]. **Typechecking** [CL95, MBC04]. **Typed** [ACPP91, Geo84, GDF23, Kob98, NN86, WCM00, AAR+10, LP99, MWCG99]. **Typed-Untyped** [GDF23]. **Types** [AFF06, AC93, BG22, BGOL+23, BB94, BCEM15, DDMP22, DPP22, DD85, EO80, FFLQ08, GEGP17, HL82, Hes88, Jen97, Kam83, KBP22, LaL89, LO94, LBN17, Loe87, Mal82, Miq19, MP88, TDA+23, WL85, Wei89, Wei90, AM01, BBF+11, Dam03, DDM11, DMM01, Gro06, GPV07, HVP05, IV06, MME+10, PS96, Pal98, STS03, SP07]. **Typestate** [COE+20, GTWA14]. **Typestate-Oriented** [GTWA14]. **Typing** [ACPP91, DG19, Dug99, EKD23, GGSV22, RM10, SV96].

ultimate [PS08]. **Ultracomputers** [Sch80]. **Unassigned** [Win84]. **Unbounded** [LWR21, BGP99]. **uncaught** [LP00]. **Undecidability** [Ram94, Rep00, Cha02]. **undecidable** [Ram00]. **Understandable** [MSM+16]. **Understanding** [ST00a]. **Undo** [Lee86]. **unfold** [RKRR04]. **unfold/fold** [RKRR04]. **Unidirectional** [Pet82]. **Unification** [MM82, DRSS96]. **Unified** [VSS94]. **Uniform** [AS80, BP89, Hua93, AH10, HY07]. **Uniformly** [DB85]. **unifying** [TVA07]. **unique** [Van06]. **UNITY** [Pau01, TB95]. **Universal** [DPP22]. **universe** [DDM11]. **Unnecessary** [BT93]. **Untrusted** [JW17]. **Untyped** [GDF23]. **Update** [Hud91, FGM+07a, GW99]. **Updating** [HSS+14, HN05, SRW98, SHB+07]. **Upper** [PW94]. **Usage** [MS83, BDFZ09, IK05, QR00]. **Use** [FOW87, GH80, HS94, LaL84, PPS79, She91, SS82, CC97]. **usefulness** [HDH02]. **User** [ACS84, DS90, Mye90, Wal80, Wal81, Wat83, van88]. **User-Defined** [Wal80, Wal81]. **Using** [AGT89, Bob80, CGJ+97a, CES86, CH87, DP93, Dil90, DMM01, DJP+16, FLBB89, GSW95, GSO94, HRB90, ISIRS22, JTM98, Kar84, LaL89, Lam84, LM18, LWR21, Mye90, Ode93, Pet83b, PP94, PBR+15, SSFZ+23, SS84, SS96, Sok87, SGL98, TvS82, ACM11, BH99, CSW06, CGS+03, DR05,

GS99, GCRN11, KWL09, KSK07, MTSS09, RD03, SZLY21, ST00a, SGL96, TFK+11, VJB12, XA07, YUW02, ZSD09, Pem83]. **Utilizing** [ES97].

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