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

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**Title word cross-reference**  

(SRW02), + [Han81a], $T^M$ [Bla03], $\phi_{ex}$ [AW82], $=[$DDDCCG02], $A$ [DES12], $\mathcal{R}$ [JMSY92], $\mathcal{R}_{Lin}$ [VR95], $\ell$ [ADG+94].  

$(k)$ [ADGM91, BL94b, KM81]. 2 [Dam03]. 3  

$O(nm)$ [Pet82]. $\phi$ [CF95, DR05]. $\pi$ [ABL03].
MS83, PZJ05, RH87, SSS81, SLCo3, Shen91, VS22, Wt91, Wt94, ABH11, ATD08, BdLBH99, CRN+08, ZCG+07.

**Automatically** [Slo95], **Automating** [GKL94, MTSS09], **Avoidance** [FGL94].

**aware** [MQ05], **Axiomatic** [AR80, App94a, Boe85, Sou84, YB87, YB88, LP80]. **Axioms** [Mits86].

**B** [Hans81a], **backpropagator** [PS08].

**Backward** [DL18, Mye18]. **Balanced** [AS80, PB80, vHK00]. **Barrier** [CHMY91].

**Base** [NoS20, LS89]. **Based** [BPP16, BGL93, Bur90a, CGJ+97a, CI84, CP95, CH90, CPS89, DVML15, DL16, EGP14, GG85, HT86, JTM98, Kais9, KH92, Kf79, LFF14, PW98, RTD83, SR95, SGL98, Ste18, SNS+14, TY18, Wt94, WGS89, vPS81, BFG08, BM10, BHM+07, BCG+07, CTT07, Dvv09, Eg97, Ff99, HBJ98, KBC+99, KKO7, KCO1, LP00, LHO8, LGAT00, MTSS09, ML21, MTK21, MH06, PL89, PPT89, PCJD08, SP97, SP07, SMP10, SYN06, BDP14, WGS93, WM12]. **Basic** [CG+19, GLR83]. **Bayesian** [HOYI18].

**BDD** [LHO8]. **BDD-based** [LHO8]. **Be** [Bee94, Coh91, Wt91, CG40, LP99].

**Behavioral** [KL29, GMM99, VBLG04].

**Behavioral** [LNI5, LW94]. **Behavioural** [SV20]. **Being** [Cop94]. **benefits** [GMP+00].

**Better** [Gri79, Lam88]. **between** [BS88].

**Beyond** [GSW95]. **BI** [BTT907].

**BI-hyperdoctrines** [BTT907].

**Bidirectional** [DP93, MMR95, FGM+07a, GPWZ08].

**binaries** [STSP05]. **Binary** [Sil82, DDD05, MMM+07, RC03, YF09].

**binding** [ACE96]. **Birrell** [MJD95].

**Bisimulation** [FDY12, MH06, San09].

**bisimulation-based** [MH06].

**Bisimulations** [SV91, 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** [AX07]. **Bootstrapping** [App94a]. **Borrowing** [Peer21]. **Both** [KZC15]. **bottlenecks** [RD03]. **Bottom** [BGL93, GCRN11]. **Bottom-Up** [BGL93, GCRN11]. **bound** [KK07, NIO5]. **Bounded** [ADG+94, ITF+22, MXZ+22].

**Bounded** [CP17, FNB20, ISRS22, PW94, BP12, CEI+07, RR05, SS05a]. **Box** [WLF016]. **boxed** [BCC04]. **Branch** [CGJ+97a, CEG07, YW02, YS99].

**Branches** [WZ91, RCO3]. **Branching** [CMBO19]. **Broad** [DAW88]. **Buddy** [Kau84]. **Buffer** [Zic94]. **bugs** [HCS10].

**Building** [Jag94]. **BURNS** [Pro95]. **Bus** [Pur94]. **Bytecode**

[Sa99, BDL08, CSCM00, FM09, GP08, KR01, Qia00, SMP10, WR08]. **Byzantine** [LSP82].

**C** [PHEK99, BR97, HSS+14, MRGP20, ND16, PH07, PFH11, Ven95]. **C#** [BCF04]. **C/C** [ND16]. **C11** [JP17]. **Cache** [GMM99, KLS92, MMM+07, SS96, VBLG04].

**Caching** [ABM93, FK85, KS86, LST98].

**Calclational** [Bou06]. **calculi** [ABS09].

**Calculus** [ABL93, BKL+97, BN94].

**Gom92, Koh98, LBM22, Mio19, MRG88, Nels9, Oh95, Wm5, AB03, Ah10, Bg22, Bv05, Bv06, Bcc04, Des12, Hr02, Iw01, Jey04, Ta08, Ktp99]. **Call** [DP97, GL80, DBH21, GC01, HL05, KK07, SW97a].

**Call-by-Value** [DBH21, HL05, SW97a].

**Calls** [BNN18, Cox88, Cox85, FFL08]. **Can** [Boe85, Coh91, Wt91, CG04]. **Capabilities** [SDB20, WCM00]. **capability** [TA08a].

**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** [IS88].

**Centered** [CHY12]. **Centers** [KRS84].
completion [KR01]. Complexity
BG22, BEF+16, Deb95, ISIRS22, Le 88, dBH21, RRSY08, SSD09. component
LS98, Y997. component-base LS98. Componential [FF99]. Components
[CIJGP18]. Composable [SDD21]. Composing [AL93, HKMN94]. Composite
[Fea87]. Components [CIJGP18]. Composable [SDD21]. Composing
[AL93, HKMN94]. Composite [Fea87]. composition [AH10, Pau01].
Compositional [DSFG21, Fos96, Jon94, JTM98, LFF14, SZLY21, ZSO21]. 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].
Concurrency
[ADG+21, BG89a, Lam90, LMM21, SDD21, Wei89, BCF04, Mil85, TA08a, CPS93]. Concurrent
[BC91, Car95, CIJGP18, Cla80, CES86, CPS93, CFM94, DSFG21, DGM97, FT94, Hal85, HSP83, HW90, Her93, JTM98, Kar84, Lam83, LFF14, LCK+22, MSM+16, OL82, Pet83a, Pet83b, Ry88, SZLY21, Sku95, SNS+14, AE98, AE01, AA04, BBYG+05, BGP99, CWS06, JPS+08, RS97, SRM10, YS10]. Concurrent-by-Default
[SNS+14]. Concurrent-Program [FT94]. Condensation [JTM98]. Condition
HW90. Conditional
Boy96, GGVS22, WZ91, Dam03. Conditioning [OGJ+18]. conditions
[KWL09]. Conference [Wol92]. confined [GPV07]. Conflict [Cas95]. Conjecture
KPS92, Sag86]. Conjoining [AL95].
Conservative [Hai05]. considered [Gor04]. Consistent [LB22, XBO20]. Constant
[CIJGP18, CGG+19, Coh91, WZ91, Wir91]. Constrained
BG89a, DAW88, PS96, Žic94, LPP01. Constraint
Bor81, DGM97, DDV99, HLH19, NSTD+15, Pa95, 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
Loc87. Constructs
[AR84, DJP+16, Par90]. Context
GHR80, KBP22, LTMS20, LWR21, Ode93, Pad19, PK80, Ram00, RTD83, Rep00]. Context-Dependent
[Ode93, RTD83]. Context-Free
[GHR80, Pad19, KBP22]. Context-sensitive
[RR00, Rep00]. Context-Unbounded [LWR21]. Contexts
[Ode93]. Continuation
BDM15, Wan82. Continuation-Passing
BDM15. Continuations
BDM15, HF87. Continuous
[KF03]. contract [DF11]. Contracts
SIG17, SDTF13, CGP09]. Contravariance
[Cas95]. Control
[ALBP93, Bur84, CL94, CFR+91, DP97, FM87b, HBS22, Kat93, Lam88, Lin79, NBG13, PB97, PBR+15, Set83, SS13, Tur84, Wat83, Wei89, BCM99, BCC04, HO07, PSS05, RAB+07, Zho96]. Controlled
[Min84, The94, JC97]. Controlling
BALP06, LaL81, LMD98]. Convention
AF84. Convergence [Bar85]. Conversion

D. [Bur91]. Data [AMT14, ÁNP89, AM85, Bac84, BC85b, BL87, Bur90a, Cha93, CS87, Deb89, DP93, DD85, El82, EO80, FL81, GMH81, GEGP17, HL82, Her93, Hes88, Hol87, Jen97, JJC019, KH92, Kam83, KKC15, KKH98, KD94, LaL89, LO94, LN02, LVRG21, Loc87, Mal82, MMR95, MCT96, PP91, QG95, RCRH95, RP88, SSS81, Sku95, SGL98, SM81, TWW82, WL85, Wei89, Wei90, Wet82, Wet83, CFP+04, DHM+12, DGS97, HB9J98, KBC+99, KFO0, LK02, Rep00, SP07, VALG05, YUW02, ZGZ05, Pur91].

data-centric [DHM+12]. Data-Driven [BL87, CS87, JJC019]. Data-Flow [BC85b, Bur90a, Wet82, RP88, KBC+99].
data-independence [Rep00].
data-member [KF00]. Data-Parallel [Cha93, HBJ98]. Database [Bar85, CB80]. Databases [SR21]. Dataflow [Deg95, DFR15, MWB94, SS13, SS96, Van96a, Van96b, VH+01].

deduction [LMD98]. Deductive [MW80].

Default [SNS+14, LMD21]. Deferring [MTSS09]. Defined [Wal92, Wal80, Wal81].

Defining [Ode93]. definite [KKR04].

Definition [Bou92, BWP87, CI84, CD79, Fid93, HS94, WCW90, WCW91, Wol94].

Definition-Use [HS94]. Definitions [BS86, WiJ82b, Dam03, VHK802, 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 [GWS95, PA85, PA86a, PA86b, FPS19, PF96, DGS97]. Denali
**Editors** [FLo81, HT86, Nix85]. **Effective** [FM87b, DeM83, Mye18, Per90, Rep86, Woh92]. **Effect** [AP07, App03, AG93, AF94, MP07, Mye19, Pal11a, Pal11b, Pal12, Pal13, Pal15, FP02, OP04]. Editors: [MM88, MM89, RTD83, Wat94]. **EDO** [OKN06]. **Editing** [Gor21, RLS+01]. **Effective** [BS83, Col84, JB20, KKN06, NI05, PE08, WJ98, YUW02]. **Effectiveness** [BDdB99, SH89]. **Effects** [Boe85, MXZ+22, SV20, TA08h]. **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, KPP95, MVV+01, MM82, NB99, NI05, PHP02, PXL95, PG21, PKH07, PA85, PA86b, RHH7, SS08, SA00, SS88, TN19, WG98, YUV02, BCP08, GB99, KS96, LPS04, LS09, PBB+07, TP04, VWB10, YF98, PA86a, SS99]. **Efficiently** [Bal94, CFR+91, CF95]. **Efficient** [ACE96]. **Efficiency** [KR01]. **Election** [Hua93]. **Eliminating** [BT93, Col83, Col85, RD03]. **Elimination** [DP93, SGL98, KKN06, KCL+99]. **Elimination-Based** [SGL98]. **Embedded** [BCP08, CSCM00, HK07, RH93, SRM10, TP04, ZP10]. **Embedding** [HF87]. **Empirical** [BHK07, BDH+16]. **Empowering** [JSB+12]. **Emulator** [ML00]. **Enabled** [ADG+94]. **Encapsulating** [GPV07]. **Encapsulation** [AR84, DDM11]. **Enclaved** [BNV+21]. **Encoding** [Hob84, GZ05, ZP07]. **Encodings** [BC79, TY21]. **End** [BDP14, CSCM00]. **enforcement** [HMS06]. **Enforcing** [CEI+07]. **engines** [SS08, SS99]. **enhanced** [GH97]. **Entries** [LaL84, SS82]. **Enumeration** [BB94, JJ98]. **Environment** [CO90, SZBH86, CTK86]. **Environmental** [SKS11, SV19]. **Environments** [BS86, GKL94, HK85, HT86, KAI89, DJKVS12]. **Epochs** [SOL92]. **equalities** [FMoPS11]. **Equality** [Pal98]. **Equality-based** [Pal98]. **Equations** [H082, BOu06, GS11, GMM99]. **Equiprobable** [PB80]. **Equivalence** [SV20, VB12, VSS94]. **Equivalent** [PO95, NP08]. **Erlang** [TCP+17]. **Erratum** [SS09]. **Error** [AB81, Bac84, BN99, BF87, FL15, KC01, LaL84, MF88, MYD95, PK80, RIC85, SS83, SS82, WET82, ZMVP17, DJKV12, JE03, XA07]. **Errors** [AWW95, SBB+19, Wha94, CPR02, JNGG10]. **Escape** [Bl03, CGS+03]. **ESOP** [AHM20, MIl21, Yos22]. **ESOP’05** [Sag07]. **Essential** [DESI2]. **Esterel** [Tar07]. **Estimation** [SBB+19]. **Estimations** [LVRG21]. **Eta** [DMP96]. **Eta-expansion** [DMP96]. **Euclid** [HW82]. **Euclidean** [Bou92]. **Evaluating** [BLH12]. **Evaluation** [AFV98, Burr84, CGST95, CK93, Gri82, Hud91, Jon90, LV94, PA85, PA86a, PA86b, RD87, RL98, Sl95, SG90, WCW90, WCW91, ZSS20, ADR06, CFP96, CG04, GJ05, LDM07, LEO04, ST00b, SYK+05]. **Evaluations** [BDH+16]. **Evaluating** [Gom92, JP81, KR79, Le88]. **Evaluators** [CP95]. **Event** [Bar81, 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, ABH11]. **Executable** [Hob84]. **executables** [YF09]. **Execute** [BR10]. **Execution** [BNV+21, CSS7, Dl90, GJ93, JW17, JG10, JF81, SS98, SS88, BALP06, GPA+01, TS00, YF98]. **Exemplars** [LaL89]. **Exemplified** [DGL+79]. **Exercise** [Kna90, Mis81]. **Exhaustive** [Burm0a]. **Existential** [MP88].
existing [LS98], expansion [DMP96].

Expansions [SBB+19]. Experience [FSS83, Wal92], experiences [Eug07].

Experimental [LV94, SSS83, Ven95, ABB+09, BGPF99].

Experiments [Tur84]. Explanation [Mis81]. Exploiting [KOE+06].

Explanation [WS97]. exponential [Wu04].

Experimental-time [Wu04]. Expression [GP81, YB87, YB88, HVP05].

Expression-Oriented [GP81, YB87, YB88].

Expressions [BG89b, CGST95, CC97, DAW88, Fis80, Geo84, GRI82, Hen83, HY91, KS83, LD81, 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 [HGS17, Sto04, ATD08, MBC04].

Extension [Bur90b, Coh91, WSH15, Wir91, ALZ03, KKN06, LS08]. Extensions [Wir88].

Extent [MF88]. Exponential [LS08]. Extrapolation [GP95], extraction [SBS+02].

Extending [WTSL02]. Extrapolation [WM12]. Extrema [Pet82].

F [MWCG99]. Facets [ASF17]. factoring [DRS96]. Failure [BN99, Dar90, GHI+19, Kar84].

Failure-Free [Kar84]. Fair [BN94, PR07].

Fairness [ES97, OA88, TB95, AH98].

Families [LaL89]. Fashioned [AL94]. Fast [ADG+06, DA98, FMS93, HVDH07, LT79, LZR22, SR95, DR05, PE08, TP04, VBLG04, DVL15]. 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 [APA6a].

Fence [AKNP17]. Few [HL22]. Fickle [DDDC02, AAD+07]. field [PKH07].

field-sensitive [PKH07]. fields [PZJ05].

FIFO [FLBB89]. Final [Kan83]. 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, CESS86, GC86, PK82, PP91, Pur91, RSL10, Zav85].


First-Class [HKMN94, Han92, SDF13, MH04].

First-Come-First-Served [LH91].

First-Enabled [ADG+94]. First-Fit [Bre89]. First-In [ADG+94]. First-Order [DP97, JPP91, JS94]. Fit [Bre89]. Fixed [SS98]. Fixed-Order [SS98]. Fixpoint [AC94, Qia00]. Flexible [AD98, HU91, MS8+16, WG98, WLS8b, dJKVS12, IV06, KGMO04].

Floating [CK94, Fat82, SBB+19, Hunt96, Mon08].

Floating-Point [CK94, Fat82, SBB+19, Hunt96, Mon08]. flop [MMG00]. Flow [AR80, AD98, ASF17, Bac84, BC85b, Bur90a, DP97, DP93, FJKA06, HR97, KD94, MRR95, NBS13, PO95, PP91, PBR+15, Pur91, Set83, SGL98, SS13, Wet82, DGS97, HR02, HY07, KBC+99, Pal98, PS03, RRSY08, RP08, TZ07, WJ98].

Flow-Insensitive [HR97, FJKA06].

Flowback [CMN91]. Flowgraph [LT79].


Foo [FA93]. foreign [FF08]. Foreword [Mye17, Mye18]. Form [AK87, BOV85, BM94, CFR+91, GSW95, Pal95, PG01, GPF08, KCL+99].

Formal [ZCG+07]. Formal [ADG+21, BS86, BDP14, CB80, CD79, Fid93, Gie83, HIT97, Kna90].
Lee86, Mal82, MH86, Sha82, WP10].
Formalism [Pea21]. Formalisms [PCC85].
Formalization [BBP16]. Formally [SP97].
Format [Wat83]. Forms [DS83]. Formulas [RSL10].
formulations [RS97]. Fortran [AKR87, DP99]. Foundation
[AKR87, Ban11, Rhi03].
formalization [BPP16]. Formally [SP97].
Format [Wat83]. Forms [DS83]. Formulas [RSL10].
formulations [RS97]. Fortran [AKR87, DP99]. Foundation
[AKR87, Ban11, Rhi03].
foundational [AM01]. Foundations
[GTWA14, LW93, AAR+10]. Fractal
[MMP03]. fractional [Boy10]. frames
[SJP12]. Framework [BGL93, Gie83, JW17,
KRR18, NSZS13, NSTD+15, OHL+14,
SGL98, TN19, ATD08, DGS97, GMM99,
GZ04, GC01, Len04, PS08, RKR04, TP04,
VBLG04, XA07, ZCG+07, ZP10, vHK00].
Frameworks [MMR95, KK07].
framing [BNN18]. Francez
[Fra81, Moh81, Moi83].
Free [AP94, GEGP17, GHR80, Her91, Kar84,
Kob98, Pad19, JJJ98, KBB22, KSV96].
freedom [KS10]. Fresh [JJD98, KBP22, KSV96].
frontiers [Ano02b]. full [GB99]. Fully
[JPP91, TY21]. function [DR05, FF08].
Functional [AFV98, Ban87, Blo94, Bu05,
Bur84, DW89, FL91, ISY88, JPP91, WM95,
Web95, Wil82a, ABH06, Bou06, DWWW08,
DF98, PS08, San96, SP97]. Functions
[AKP94, AK82, Bou92, PB08, SM89, TY21,
Lee09, MBO04, MB99, MT08, PPT08].
Further [CM93]. Fusion [JB20, LGAT00].
Fusion-based [LGAT00].

G. [Tic88]. Garbage
[BA84, CN83, DS82, ISY88, JCM89,
TM93, URS18, WLBF16, Wis79, BBYG+05,
BALP06, HDD02, LP06, Pdq06, TSBR08].
Garnet [VHM+01]. General
[BGL93, CMM89, HS+14].
General-Purpose [HSS+14].
Generalization [Nel89, LMD98].
Generalized
[Ans87, BS83, GKM20, KD94, Lin79].
Generalizing [DB85]. Generals [LSP82].
Generate [Son87]. Generated
[Slo95, dJKVS12]. Generating
[HBH+06, HT86, Jef03, LR13, JNZ06].
Generation [AGT89, AS80, BOV85, BM94,
DS83, DS90, GF5, GVC15, HKR92,
HKR94, Proc95, Rei83, Rob79, She91, ST00b,
UJ92, DAS98, MSRR00, PHE99].
Generative [Gel85]. Generator [PPS79].
Generators [Bat80, GHK81]. Generic
[LV94, DDM11]. generics [IV06].
Geometry [CR87]. Georgeff [NN86].
JG
[IPW01]. Glanville [MSRR00]. Global
[BA84, HGA+96, OHL+14, PS92, Sch85,
DHB+96, CS04, KBC+99, DS88, Sor89].
GLR [SJ06]. Goal
[Dar90, Gud92, SYH07]. Goal-Directed
[Gud92, SYH07]. 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, Jon90, Kat84, LaL81, RD87, RH87,
Tal79, WW95, Boy96, CP96, Wu04].
Grammatic [Tho94]. Grammars
[BB94, MK94]. Granularity [RRB19].
Graph [Ass00, Bee94, BCT94, CFR+91,
FOV87, KKS94, LKS92, LRZ22, MC82a,
Son87, TTT07, GC01]. graph-based
[CTT07]. Graphic [Mal82]. graphical
[VHM+01]. Graphs
[GKM20, HBR90, KPS92, Kna90, SGL98,
DR05, JC97, KSK07, SGL96, UM02]. grid
[VWJB10]. Grimmer [Ano18]. groundness
[CSS99]. Grover [BH99]. growth
[BALP06]. Guarantee
[EGG17, LFF14, SZY21, HQR02].
guarantees [LS00]. guard [MP07].
guarded [SP07]. Guardians [LS83].
Guards [Ber80]. Guest
[FP02, OP04, DeM83, Per90, Rep86, Wol92].
Guide [App94a, BDH+16]. Guided
guiding [VALG05].

Hackers [App94a]. Hancock [CFP+04].

handle [VJB12]. Handling [Hau96, LdR81, Pig96, SSS83, UM02, YB85, YB87, YB88, CRN+08, LS98, LP80, SSD09, Hen83]. Hard [Hor97]. Hardware [BKL+97, Mis86].

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, VJJB10]. High-Level [Cam89,Fat82, CMS03, VJJB10].

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].

Homomorphic [VS22]. Homomorphisms [HIT97]. HOP [BLRS12]. Hybrid [KF10, KS10].

hyperdoctrines [BBTS07].

I-Structures [ANP89]. I/O [Car95]. Icon [GHK81, GRS92]. id [Bee94]. idempotency [KOE+06]. Identical [FLBB89].


Implementation [AKBLN89, AOC+88, BCD+15, Bou88, Bre89, BS83, CM86b, GMH81, Gaz83, Lin93, MDCB91, PXL95, RL98, WL85, CMLC06, FM87a, GB99, LDM07, LPS004, Tra08, Zho96].

implementations [BBF+11, BFGT08, DF98]. Implemented [DB85]. Implementing [BR97, Her93, HW82, Sku95]. Implications [Fat82]. Implicit [BH05b, SJ12]. Implicit-signal [BH05b]. improve [KF00]. Improved [GHR80, Mur91, KK07].

Improvement [MS83, San96].

Improvements [BCT94]. Improving [CK94, CM+95, MCT96, TCP+17, WS97].

impure [Pip97]. Incomplete [MRGP20, GLMM05]. Incremental [Bur90a, CP95, DMM88, GM79, HKR92, HKR94, HPMS00, Hud01, Kaj95, Lar95, LST98, LHR19, PS92, RTD83, RP88, SGL97, WC98, YS91, BCG+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]. Direct [Pi96, CEG07, YK97]. Induction [GSW95, Sit79]. Inductive [LBMTT22]. inefficiencies [MMM+07]. Inessential [SS82, LaL84].

Inference [CEW14, Deb89, Hen93, LO94, LY98, MRGP20, PZ19, SR21, TB98, Wey83, FFLQ08, JB06, PM06, PT00, PS03, Van06].

Inferring [FBGB20]. Influence [FT95].

Information [AR80, Ano82, Ano83, Ano84, Ano85, Ano86b, Ano87, Ano88b, Ano89b, Ano90b, Ano91b, Ano92b, ASF17, BC85b, HR02, NGB13, PR+15, PS03, GS99, HY07, LN02, OYR09, TZ07]. Information-Flow [BC85b, TZ07]. infrastructure [SWU10].

Input-Output [BS83].

Inputs [PA86a]. Insensitive [Hor97, FJKA06].

Insertion [AKNP17, GJ05]. inspection [CF04, FG03].

Instantiation [Dev85]. Instead [Lam84, Rem81].

Instruction [KPF95, LCBS19]. Instructions [LS80, PS93, RF97, Rob79, LPP01].

Insensitive [Hor97, FJKA06]. Insertion [AKNP17, GJ05]. inspection [CF04, FG03].

Instantiation [Dev85]. Instead [Lam84, Rem81].

Instruction [KPF95, LCBS19]. Instructions [LS80, PS93, RF97, Rob79, LPP01].

Insensitive [Hor97, FJKA06]. Insertion [AKNP17, GJ05]. inspection [CF04, FG03].

Instantiation [Dev85]. Instead [Lam84, Rem81].

Instruction [KPF95, LCBS19]. Instructions [LS80, PS93, RF97, Rob79, LPP01].
KN06, LP99, MF09, MWCG99, PPT08, PHEK99, Tra08, VHKO02, HCW82, YB88.

Language-Based [Kai89, RTD83].


Larch [Win87].

Large [GLR83, HSD22, MK94, MH86, WCW90, WCW91, ZSS20].

Large-scale [ZSS20].

Lattice [AKBLN89, MMR95, FH04].

Lauer [GM81].

Layout [KK98, LVV’83, GP95, YBL16, CMS03, VWJB10].

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, JJC019, 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 [Cam89, Fat82, GP95, YBL16, CMS03, VWJB10].

Lexical [HKR92].

libraries [Dug02].

LIFE [AKP94].

lifetime [HBM’06].

Lifetimes [Pea21].

Lightweight [Pea21, SW97b].

Like [Hua90, KN06].

Limitations [CP17].

Linchpin [BGH’13].

Linda [Gel85].

Line [Bal94].

Linear [BL94b, FKW98, PS99, RS84a, YR94, BKRW98, BKRW05, FMoPS11, KBC’99, Ram99, Rep98, RM10].

Linear-Time [YR94, BKRW98, BKRW05].

Linearity [KPT99].

Linearizability [HW90, DSW11].

Linguistic [LS83, Wei09, FGM’07a].

Link [DDD05].

Link-time [DDD05].

Linking [QL91, Dug02].

LIPS [CDFP89].

LISF [CRN11].

LISP [Mul92, Pip97, SH89, Wat83].

List [BC79, HIT97, Kau84, Sij89].

listing [MDJ05].

Literature [Oss83].

Live [DSFG21, MWB94].

Live-Structure [MWB94].

Liveness [ACW90, GC86, OL82, RY88, HDH02].

LL [BF87].

LLVM [HL22].

Load [KPF95].

Loaded [BG89a].

Local [BDFZ09, CBDFG95, PT00, SDB20, TSBR96, Wei89, Dan03, San96].

Locality [BAC16, MCT96, VALG05, ZSD09].

Locally [AB81, Bac84, Min84].

locating [JNNG01].

Locator [ZMVPJ17].

Lock [GEGP17, KS10].

Lock-Free [GEGP17].

lock-freedom [KS10].

locking [AFF06].

LOCKSMITH [PFH11].

Logic [AS89, AFV98, Apt81, BGL93, BL87, BCD90, BDJ13, BMT94, CS04, CES86, CFM94, DW89, Deb89, DL93, Deb95, DJP’16, JPP91, Kar84, LS84, Lam94, MW84, MSJ94, MMC92, PZ22, SS89, Sok87, TK94, TB95, dHB11, BB07, BM01, BCG’07, BdBIH99, CU08, CG86, CSS99, DDD99, DPP00, 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, RKS12].

Loops [BAGM12, Boo82, CK94, DB85, FTJ95, Hav97, Wat91, Ano02b, LS04, LSL05, Ram99, RDG08, SGL96, UM02].

low [CSCM00].

lower [CSCM00].

low-end [CSCM00].

Lower [FNBG20, PW94].

LR [ADGM91, BL94b, BF87, CPRT02, DMM88, Je03, JP17, KC01, LaL81, LaL84, SS82, ST00b].

LR-based [KC01].

M [Bar91, Mul92].

M-LISP [Mul92].

Machine [CGJ’97a, Cat80, GNS’15, Gie83, Han94, JJC019, LR13, ML80, RF97, SS98, SDB20, Wat92, Zav85, Ano02a, CEG07, CF04, HK07, KN06, Oho07, RRB19].

machine-checked [KN06].

Machine-Code
MPI [FJK+17, TSY00]. Multi
[Ano18, GSS+18, ITF+22, MF09].
Multi-Language [Ano18, GSS+18, MF09].
Multi-threaded [ITF+22, Multialgebraic
[WM95], multidimensional [RDG08].
MultiJava [CMLC06]. Multilisp [Ha85].
multimethod [DAS98]. Multimethods
[CL95]. Multiparty [JS94]. Multiple
[ASF17, NSTD+15]. Multiply [FTJ95].
Multiprocess [Lam79, Lam80].
Multiprocessing [ABR81].
Multiprocessor [GP81]. Multiprocessors
[Cha93, KRS88]. Multisource [MMR95].
Multiprocess [Lam79, Lam80].
Multiprocessing [ABR81].
Multiprocessor [GP81]. Multiprocessors
[Cha93, KRS88]. Multisource [MMR95].
Multiprocess [Lam79, Lam80].
Multiprocessing [ABR81].
Multiprocessor [GP81]. Multiprocessors
[Cha93, KRS88]. Multisource [MMR95].
Multiprocess [Lam79, Lam80].
Multiprocessing [ABR81].
Multiprocessor [GP81]. Multiprocessors
[Cha93, KRS88]. Multisource [MMR95].
Optimistic [PM04]. Optimization
[Beec94, BBC16, Bilo94, BAC16, BT93, DF84,
DP97, DHD84, Dha91, DS88, FOW87,
HG83, HOY18, Pen83, PP94, RRB19,
SS82, Sor89, TsV82, Web95, Ass00, BHK07,
KBC, +99, KF03, PE08, TVA07, ZP10, CG95,
La84, OKN06]. Optimizations
[CC95, JSB, +12, CGS, +03, CKT86, GMP, +00,
SYK, +05]. optimize [DMM01, VBLG04].
Optimized
[CM93, Cop94, Hen82, WST85, DS98, UM02].
Optimizer [DF80, FSS83, DF81].
Optimizers [Gie83].
Optimizing
[CEG07, KMM, +98, LSLR05, ML80, NSZS13,
QR00, BGKR09], Or-Parallel [GJ93].
orchestration [PE08]. Order
[AC94, AD98, Bur84, CJK95, DP97,
DJP, +16, JPP91, JS94, SS98, BBT807, DF11,
FPS19, SKS11, SV19, SP97], ordering
[GS9]. Organization [Han81a]. Oriented
[Bor81, Dar90, Ell82, FFF, +18, GTWA14,
GKL94, GP81, HU96, Ryu16, SM81, Tur84,
Yu87, YB88, BSvGF03, DWWW08,
DMM01, JFS, +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
[DMM11, SS96]. Oz [VHB, +97].

Package [Hil88], Paper [GM81]. Parallel
[ANP89, BG22, BOV85, BO94, BE13,
Cha93, CGST95, CMN91, CL94, DS83,
Fos96, GLO88, GJ93, GPA, +01, HCHP92,
HIT97, JF81, Kaa90, LHR19, Mis94,
NSZS13, OAA88, Raa94, SS88, BBYG, +05,
CG86, GB99, HBJ98, KS96, LK02,
MV+90, RR03, YF98], Parallelism
[Bur84, GP95, KS96, 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, SWR02, IV06].
Parenthesis [AS80], Parlog [CG86].
Parsed [Wad90]. Parser
[DDH84, JP17, La84, SS82], Parsers
[BN99, La8L1, MYD95, PK80, CPRT02,
SJ06, ST00b]. Parsing
[CH87, DMM88, Fis80, GM79, Lar95, RH87,
Sam80, WGM98, KCO1]. Part
[La81, PA85, PA86a, PA86b, APT81]. Partial
[AJV98, CP17, CK93, DS88,
Gom92, KCL, +99, Sor89, ADR06, BP12,
CG04, GJ05, LMD98, Leu04, ST00b].
Partially [BLH12, Kob98, RRSY08].
partially-flow-sensitive [RRSY08].
partitioning [RM07, YF99], Parts [Son87].
Pass [Coh91, Wir91]. Permission
[BPP16, SNS, +14]. Permission-Based
[BPB16, SNS, +14], permissions [Boy10].
Persistent [AM85], Petri [JTM98].
Petri-Net-Based [JTM98]. Phases
[Bar81], Philosophers [CM84].
Philosophers [MS88], Pi
[BG22, HR02, KPT99], Pi-calculus
[BG22, HR02, KPT99]. pict [SWU10].
Pictures [MH86], Pipeline [HG83].
Pipephole [BG89b, LPP01, RDG08].
pipelining [ME97], pitfalls [Mon8]. PL

Performance [HU96, MSM, +16, PB80,
URJ18, KFO0, PE08]. Performed
[Coh91, Wir91]. Permission
[BPB16, SNS, +14], Permission-Based
[BPB16, SNS, +14], permissions [Boy10].
Persistent [AM85], Petri [JTM98].
Petri-Net-Based [JTM98]. Phases
[Bar81], Philosophers [CM84].
Philosophers [MS88], Pi
[BG22, HR02, KPT99], Pi-calculus
[BG22, HR02, KPT99]. pict [SWU10].
Pictures [MH86], Pipeline [HG83].
Pipephole [BG89b, LPP01, RDG08].
pipelining [ME97], pitfalls [Mon8]. PL
[CD79, CZ84, FFF+18]. PL/CS [CD79].
PL/CV3 [CZ84]. place [GW99].
Placement [DP93, GS99, vHK00].
Platform [TCP+17], pluggable [MME+10].
Pluto [BAC16]. Point [CK94, Fat82, SBB+19, GJ05, Hau96, Mon08]. Pointer
[LTMS20, LHR19, LS79, RR03, SDB20, HBC99, HVH07, PKH07, RLS+01].
Pointers [SS13, RR05]. Points [GKM20, WKD04]. Points-to [GKM20].
Pointwise [VSS94]. Policies
[NGB13, 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, HTO4, Hen93, KTU93, LO94, LY98, Oho95, SIG17, SV96, TY21, WJ98, BSVF03, DWWW08].
Polymorphism [Bur90b, MDCB91, HFC09]. polynomial [BAL07, CFG19]. PolyTOIL
[BVSGF03]. polyvariance [LMD98].
Polyvariant [AC94, WJ98]. POP
[FFF+18]. POP-PL [FFF+18]. Portable
[DDH84, Han81b, HK07]. Possibly
[JP17, ML21]. Postfix [DS88]. Postpass
[HG83]. Power [TWW82, SSD90].
Powerlist [Mia94]. PPMex [DKV07]. PQ
[GZ05]. PQ-encoding [GZ05]. Practical
[AD98, BAC16, BF87, CP17, Dha91, LR19, ND16, PBR+15, SS13, TSL+02, WC97, Bou05, DR05, DWD07, DGS97, JNZ06, PFH11]. Practice
[KRS94, Ryu16, Bla03, DRSS96].
Pragma [BDH+16]. Pragmatics
[Gom92]. Pre [OLH+16]. Pre-Analysis
[OLH+16]. Precedence [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 [CBDFG95, Lam88]. predictable [SHB+07, HK07]. Prediction
[CGJ+97a, CEG07, YS99]. Predictive
[FJK+17]. Prepending [FK85].
Prescription [FFF+18]. Presence
[AWW95, CF94, KU93]. 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]. Privacy
[BKOZB11, LVR21]. Privileges [Min84].
Probabilistic [AB20, BKOZB13, CFNH18, DG19, HSP83, MMS96, OJ+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, Lb93, 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, Son84, TY18, dBB85, AE98, KS10, Ber80, Mio83].
Processing [GH80, HSG17, Rei83].
Processor [BG89b, Bud84]. Processors
[GLR83, Per79, LPFP1, ZP10]. Product
[EMH20, RTP17]. Production [Wad90].
Productivity [Sij89]. Profile
[BHM+07, YUUW02]. Profile-based
[BHM+07]. Profiling
[ASAVF19, BL94a, SP97]. Program
[Bal94, Bar85, BAL07, BKB80, Col84, DKKL18, Der85, FPS19, Fsa82, FOW87, FT94, FL91, HSP83, HKR94, HSD22, Jen97, JJC19, KKW14, KWL09, Lam83, Lam88, LFF14, LWR21, MS83, MW80, Mis81, Nie85, PP94, PPS97, 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, ARPS08, BS86, BPP16, BHM+19, BL87, Bir84, Bor81, BMPT94, BWP87, BCEM15, CHY12, COE+20, CL94, Dar90, DGG79, Dug99, FFF+18, Fos96, FL15, GTWA14, Har80, HK85, HO82, Kai89, KH92, Lee86, LMM21, LVRG21, MK94, Mye90, OGJ+18, Pet83b, RCS93, SS84, SNS+14, SZBH86, TK94, TG20, ZSO21, ABH06, BMR01, BdlBH99, CU08, CG86, CKT86, DWWW08, DPPR00, GW99, HBJ98, JPS+08, KSV96, LMD98].

Programming-in-the-Large [MK94].

Programs [AWW95, AK87, AFV98, AB20, AR80, AP94, AC94, BL94a, Ban87, BGL93, BC85a, BC85b, Ber94, BCD90, BCE94, BE13, BEF+16, CR87, CB80, CM86a, Cha93, CFNH18, CEW14, CMN91, Cla80, CMF94, CS87, DSFG21, DL18, DGM97, DW99, Deb89, DL93, Deb95, DP97, Di90, EMH20, EGP14, FJK+17, FNDS20, GG85, GM81, Har80, HCHP92, HPR89, How80, HIT97, ISY88, ITF+22, JBK18, JW17, Jon83, JF81, Kna90, Lam79, LS83, MSJ94, ML21, MT92, MRGP20, MHS86, Mye18, NSZS13, OA88, OL82, QL91, Ruo94, SS98, Sch82, SSS81, SS88, TOUH21, TN99, Ven95, Wad90, Web95, Will82a, AE01, AAE04, BCG+07, CSW06, CSS99, DP99, DGV99, D98, DMM01, EGM01, GM12, GH8+96, GH97, GPA+01, Han96, HPSM00, JPS+08, KS96, LM98].

Programs [Leu04, LS09, MO09, NR06, PM06, RKRR04, RR03, San96, VJB12, WM12, YS10, Yin11, dHb96, Bur84, Lam80].

PROLOG [LV94, AP94, AB94, BC91, CH87, FA93, GPA+01, MWB94, NF89, Zho96].

Promotion [Bir84, Bir85].

Proof [AFdR80, BDJ13, FRW90, GL80, Mii83, Sag86, SS84, Sok87, WGS92, WGS93, AM01, DSW11, Hoo07].

Proof-carrying [AM01].

Proof-Directed [BDJ13].

Proofs [Apt86, BC85a, CM86b, JW17, LY98, Oss83, GRK+11].

Propagation [SR95, WZ91, Apto00, CP96, SS05a, SS08, SS09].

Properties [ACW90, AS89, CLJGP18, Kar84, LM18, OL82, RY88, TB95, Wei89, YS10].

Prophecy [LM22].

Proposed [Fat82].

prossima [AM01].

Proof-Directed [BDJ13].

Proofs [Apt86, BC85a, CH87, FA93, GPA+01, MWB94, NF89, Zho96].

Proofs [BHM+19].

Promotion [Bir84, Bir85].

Proof [AFdR80, BDJ13, FRW90, GL80, Mii83, Sag86, SS84, Sok87, WGS92, WGS93, AM01, DSW11, Hoo07].

Proof-carrying [AM01].

Proof-Directed [BDJ13].

Proofs [Apt86, BC85a, CM86b, JW17, LY98, Oss83, GRK+11].

Propagation [SR95, WZ91, Apto00, CP96, SS05a, SS08, SS09].

Properties [ACW90, AS89, CLJGP18, Kar84, LM18, OL82, RY88, TB95, Wei89, YS10].

Prophecy [LM22].

Proposed [Fat82].

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

Pruning [BW99].

PSG [BS86].

publish [Eug07].

publish/subscribe [Eug07].

Pure [BNN18, HU96, Pip97, Tar07].

Purpose [App94b, HSS+14, Spo86].

Pushdown [CBM+19].

PYE [TN19].

Qualifiers [FJKA06].

Qualitative [CFNH18].

Quality [BHM+19].

Quantification [Vol91, Bur91].

Quantified [Gro06, STS03].

Quantitative [CFNH18].

Quantum [FDY12, BH99, Yin11].

Queries [Bal94, CGG+19].

Queuing [BB79].

Quiescence [CM86a].

R [AW82, CKT86, KMM+98].

race [AFF06, PFH11].

Random [AS80].

Randomized [TOUH21].

Rank [CG95].

Rank [Dam03].

Rank [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 [AE01].

Real [AL94, MMG92].
RS84b, GH97, HK07, LS98, YMW97].
Real-Time [MMG92, RS84b, GH97, HK07, LS98, YMW97]. realities [Gor04].
Reasoning [BKOZB13, BLRS12, BPS2, BH99, CB80, DSFG21, Lam88, LN15, Rao94, SBD20, dBB21, TSBR08]. receive [Gor04].
receptive [ABL03]. Recipe [AL94].
Reconciliation [HU96]. Reconstruction [YR94]. Record [LS79, Oho95]. recover [Gor04].
redundant [Coh83, Coh85]. Redundancies [DS88, Sor89]. redundancy [KCL99].
Redundant [Coh83, Coh85]. Reentrant [Bob80]. Reexamination [CG95]. Refactoring [Ste18, TFK11]. Reference [Bob80, Pau21, Wis79, KSK07, KOE+06, LP06, MDJ05].
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