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**Title word cross-reference**

[SRW02], + [Han81a], $T^M$ [Bla03], $\phi_{ex}$  
[AW82], $\parallel$ [DDDCG02], $\mathcal{A}$ [DES12], $\mathcal{R}$  
[JMSY92], $\mathcal{R}_{Lin}$ [VR95], $\ell$ [ADG+94],  
$O(nm)$ [Pet82], $\phi$ [CF95, DR05], $\pi$ [ABL03].

($k$) [ADGM91, BL94b, KM81], 2 [Dam03], 3
-calculus [ABL03]. -Exclusion [ADG94].
-function [DR05]. -Nodes [CF95]. -Tree [Han81a]. -valued [SRW02].

11 [ND16]. 16 [TGT20].
20 [TGT20]. 568 [Han81b].
8 [Ano18].
90 [DP99]. 95 [WJS+00].

Abstract
[BGL93, BK11, CMB+95, CFG+97, DGG97, DC22, DLR16, ELS+14, EO80, GS98, HL82, JPP91, KRR18, Lan80, LO94, LV94, LM81, LR13, Loe87, MSJ94, MXZ+22, NDS98, She91, TY21, Wei89, van88, ABS09, BDL+08, BdlBH99, Leu04, RM07, SYYH07, SJ03].

Abstraction
[BNN22, CGL94, CL94, Der85, GMH81, GKM20, SM81, BMR05, BBTS07, GMZ00, LN02, LH08, MOSS96, PR07, Ell82].

Addendum [Bir85].

Adding [ACW90, BN94]. Addition [CBMO91].

Addressing [Hol87, ZP10].

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

Adaptors [YS97].

Abstract
[BGL93, BK11, CMB+95, CFG+97, DGG97, DC22, DLR16, ELS+14, EO80, GS98, HL82, JPP91, KRR18, Lan80, LO94, LV94, LM81, LR13, Loe87, MSJ94, MXZ+22, NDS98, She91, TY21, Wei89, van88, ABS09, BDL+08, BdlBH99, Leu04, RM07, SYYH07, SJ03].

Abstraction
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Addendum [Bir85].

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Abstraction
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Addendum [Bir85].

Abstract
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Addendum [Bir85].

Abstract
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Addendum [Bir85].
Analysis
[AKNP17, ABE+05, AD98, Bac84, BNN18, BC85b, Blo94, BE13, Bur90a, CFNH18, CFG19, CDK+18, CMLN91, DKL18, DL93, Del95, DP97, DC22, DAW88, FPS19, FJK+17, GNS+15, GKM20, GJ93, HP96, HL22, HOYY18, Hi88, Hor97, ISY88, Jen97, JCO19, KD94, LLK+17, LTMS20, LR13, LHR19, LWR21, McG82, MRGP20, MBB94, MOS07b, OHL+14, OLH+16, Pal95, PO95, PCC85, PP91, PW98, Pur91, RDL83, RRP19, RS95, SSSS83, 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, HA12, IK05, JLR10, KBC+99, KK07, KSK07, LP00, LH08, MPM03, NS13, PHP02, Pal98, PKH07, Ram00, Rep00, RSL10, RSR08].

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, SR21, BALP06, CMLC06, NR06].

Applicative
[AC94, KS86].

apprentice
[MP02].

Approach
[AKNP17, ABR81, AR80, BAC16, BP82, Bur90a, CH90, D90, E12, 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, JLR10, KV00, LP80, MBB+09, PSS05, PCJD08, RC03, SP07, WS97].

approximations
[BGP99].

Architect
ted
[TP07].

Architecture
[Wal92].

Architectures
[Han94, KP95, NSTD+15, PAS+15].

Arising
[Bac84].

Arithmetic
[Fis80, GNS+15, Hen83, LdR81, MOS07b].

ARM
[FKW98, ADG+21].

Armada
[LC+22].

Armed
[ADG+21].

Array
[DGW98, ADG+21].

Armada
[LCK+22].

Armed
[ADG+21].

Array
[DGW98, ADG+21].

Armed
[ADG+21].

Armed
[ADG+21].

Armada
[LCK+22].

Armed
[ADG+21].

Arrays
[BBC16].

Article
[Ano18, TGT20].

ASF
[VHK02].

aspect
[DDWW08, WKD04].

aspect-oriented
[DDWW08, WKD04].

AspectML
[DDWW08].

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].

Assocs
[Ram01].

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, JP91, Kat84, KR79, MK94, RD87, WW95, Boy96, CP96, Wu04].

Attributes
[HST86].

Author
[Ano86a, Ano88a, Ano90a, Ano91a, Ano92a, Ano94, Ano95, Ano98, Bur91].

authorization
[FGM07b].

Authors
[Ano82, Ano83, Ano84, Ano85, Ano86b, Ano87, Ano88b, Ano90b, Ano91b, Ano92b].

auto
[ZP10].

auto-addressing
[ZP10].

Automata
[BMW91, CBMO19, ES89, Pro95, KV00].

Automata-Theoretic
[ES97, KV00].

Automated
[GRSK+11, KZC15, KF00, LCK+22, S87, JNGG10].

Automatic
[AKNP17, AK87, Ano02a, BBC16, Cat80,
B [Han81a]. backpropagator [PS08].
Backward [DL18, Mye18]. Balanced [AS80, PB80, vHK00]. Barrier [CHMY19].
Base [NcS20, LS98]. Based [BPP16, BGL93, Bur90a, CGJ +97a, CI84, Boe85, Sou84, YB87, YB88, LP80]. Axioms [Mis86].
Backtracking [Lin79, VR95, FM87a].
Backward [DL18, Mye18]. Balanced [AS80, PB80, vHK00]. Barrier [CHMY19].
Base [NcS20, LS98]. Based [BPP16, BGL93, Bur90a, CGJ +97a, CI84, Boe85, Sou84, YB87, YB88, LP80]. Axioms [Mis86].
Backtracking [Lin79, VR95, FM87a].
Centered [CHY12]. Centers [KRS84].
Centralized [HM84, centric [DHM+12].
change [BA08, CP96, Lee09]. Changes [Ber94, MTSS09]. changing [MP07].
Chariots [PB97]. CHC [MTK21].
CHC-based [MTK21]. Check [AP94].
checked [KN06]. checker [NP08].
Checking [Car95, CGL94, ES97, FF08, GL94, ND16, AY01, ACM11, BGP99, FFLQ08, HQRST02, JJD98, KF10, KV00, N105, SG04, VJB12, YMW97]. Checks [CG95, CEI+07]. Chocola [SDD21]. Choice [BN94, JCM19]. CIRCAL [Mil85].
Circular [Jon90, Pett82]. Circularity [WW95, Wu04].
Class [CBMO19, HKMN94, Han92, SJ03, SDTF13, HS11, MH04, ST00a]. Classes [SDTF13, WT11, HHPW96, HMS06].
Closure [Pal95, SW97b, SA00]. CLP [DHM00, GLMM05, JMSY92, KMM+98, VR95].
Clustering [LKK+17]. Clusters [BGH+13, HBG+09]. coalescing [GA96, Hai05, PM04]. Coalggebraic [KBP22]. Coalgebras [KBP22]. Code [AGT89, BHM+19, Cat80, Cop94, DF84, FGL94, GF85, Hen82, HG83, JSB+12, KRS94, LR13, LCK+22, ND16, Rob79, TvS82, Wan82, AM01, DEM00, Hai98, HBG+90, HK07, JNZ06, LDK+96, MSRR00, ME07, Oh07, PHEK99, WS07, vHK00, CM93, Pem83, WST85]. Coder [SBS22].
Cohen [Coh85]. coherence [SS96].
coinduction [San09]. Collect [JCM19].
Collecting [HY91]. Collection [BA84, CN83, DSW82, Lan80, TM93, URJ18, WLBF16, BALP06, HDH02, PK+07, Piq96]. Collector [YW22, BBYG+05, LP06, TSBR08].
Coloring [BCT94, CH90, GSO94].
Communicating [AFdBR80, GC86, HM84, MW84, MC82b, M083, Os83, P914, Pur91, Sou84, Ber80, KS79]. Communication [Ang89, CHY12, FJK+17, FY85, Ge85, Hu90, LH91, MB83, vPS81, KBC+99, M185, SWU10, WM12].
Communication-Centered [CHY12]. Communications [RS84].
Commutativity [RD97, Apt00, Cha02]. Compact [BC79, Sip82, Wad90].
Compactification [RH87]. Compacting [CN83]. Compaction [CP17, Wis79, BP12, DDD00, DEMD00].
Comparative [WCW90, WCW91].
Comparing [Hai05]. Comparison [CN83].
Compartmentalized [WLBF16].
CompCert [BDP14]. Compensation [FGL94]. Compilation [ABC+21, DLR16, FKFW98, FL91, JLP+14, JF81, Oh095, PAS+15, PG21, Sit79, KMM+98, LST02, LDM07, SYN06]. Compile [ABR81, GW99, Hol87, Tra08].
Compile-Time [ABR81, Hol87, GW99, Tra08]. Compiler [ABC+21, App94a, Bud84, CM86b, DK17, DEMD00, FT94, FGL94, JSB+12, Rei83, Slo95, Son87, Wha94, YBL16, Ano02a, CMLC06, DSH09, GMM99, KN06, PE08, PHEK99, SYK+05, VHH02].
Compiler-Driven [YBL16]. Compilers [BDFH97, DDH84, HP96, Han94, BGKR09, RD97, SYN06]. Compiling [Cha93, CH87, Fis80, Set83, VHH02].
Complementation [CFG+97]. Complete
[Min84, Tho94, JC97]. Controlling
[BALP06, LaL81, LMD98]. Convention
[AF84]. Convergence [Bar85]. Conversion
[CS87, SW97b, SA00, YK97]. Cooperating
[GLR83, NO79]. Cooperation [BK88].
Coordinating [JS94]. Coordination
[GLR83]. copying [TSBR08]. core [IPW01].
Coroutine [San80]. Coroutines [LS81, NO79].
Correct [DGMP97, Hen86, JP17, SS88, AAD
+07]. Correction [FA93]. Correctness
[ABC+21, Apt86, CM86b, DI09].
Correctness [GLR83]. copying [TSBR08].
core [IPW01]. Coroutine [San80].
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, Mol83, MS88, NN86, Par90, Pen83,
Sor89, SM82, Tan83, Tie88, Vol91, WST85,
Wir91, YB88].
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 [TZ50].
Creating [Mye90]. criteria [Hai95].
Critical [PS93]. Critique [CM93]. Cross
[Ano18, FTJ95, GSS+18].
Cross-Interferences [FTJ95].
Cross-Language [Ano18, GSS+18].
Cryptographic [App15]. CS [CD79].
CSim [SZLY21]. CSP [AF84, Bag89, BS83,
Fid93, Hua90, LS84, Zie94]. CSP-Like
[Hua90]. CSS [HLH19]. currency [DS98].
Curry [LR19]. Curry-Style [LR19].
Custom [DJP+16]. CV3 [CZ84]. Cycle
[BG98b, PBK+07]. Cyclic [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,
JCO19, KH92, Kam93, KZC15, KK98,
KD94, LaL89, LO94, LN02, LVRG21, Lo97,
Mal82, MMR95, MCT96, PP91, QG95,
RCRH95, RP88, SSS81, Sku95, SGL98,
SM81, TWW82, WL85, Wei91, 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, JJC019]. Data-Flow
[BC85b, Bur90a, Wet82, RP88, KBC+99].
data-independence [Rep00].
data-member [KF00]. Data-Parallel
[Cha93, HB98]. Database [Bar85, CB80].
Databases [SR21]. Dataflow
[Deb95, DFR15, MWB94, SS13, SS96,
Van96a, Van96b, VH+01]. datalog
[LS09, ZS20]. datatypes [MBC04].
Deadlock [CHMY19, Hua90, Kob98].
Deadlock-Free [Kob98]. Deadlocks
[FK+17]. Dealing [GLMM05, GG85].
Debugging [CMN91, CM93, Cop94, Hen82,
WST85, ZS20]. Decidable [LB22].
Deciding [GGL15]. Decision
[MTG80, NO79]. decisions [MTSS09].
Declarative
[ABPS98, TCVB14, Bou05, MME+10].
Decompilation [BB94]. Decomposing
[BDL+08]. decomposition [LK02].
decrease [DK+96]. Deducing [TB95].
deduction [LMD98]. Deductive [MW80].
Deep [YW22]. Default [NS+14, LMM21].
Deferring [MTSS09]. Defined
[Wal92, Wal80, Wal81]. Defining [Ode93].
definite [RKRR04]. Definition
[Bou92, BWP87, CI84, CD79, Fid93, HS94,
WC90, WC91, Wal94]. Definition-Use
[HS94]. Definitions
[BS86, Wil82b, Dam93, VHS02, SI89].
Delay [BG98b]. 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].
Denali [JNZ06].
Denotational [AB94, FA93, Gud92, MSJ94, NF89, Nie85, Sch85, dBB85].
Dependence [BGH + 13, CFR + 91, FOW87, HBG + 09, HR90, 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, Ana02a]. Deriving [Wan82, Bou06]. Describing [AW85].
Description [McG82]. Descriptions [Boe85, BKL + 97, Cat80, Ana02a].
Descriptors [Hol87]. Design [BPP16]. BCD + 15. BO04. DF80. DF81. DC22. FT94. HM84. KKM90. LDM07. ML80. RCS93. RL98. SYK + 05. Bou05. MTSS09. CML06.
design-pattern-based [MTSS09].
Designing [LaL89, ALZ03]. Designs [AW85]. destructive [SRW98]. Detect [ISY88]. Detecting [GSW95, HCS10, Sch85]. Detection [CM86a, Hum90, MC82a, MC82b, TM93, AFF06, HDH02, PFH11, PCJD08, XA07].
Determinacy [TK94]. determination [DS98]. Determining [MF88].
Differencing [PK82, RSL10]. Differential [BKOZB13, 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 [PZ05].
Discrete [Bar81]. Discrete-Event [Bar81].
Disintegration [Ne20]. Disjunctive [Jen97, JCO19]. dispatch [DAS98, MFRW09]. dispatching [GZ07].
Distance [Wol94, ZSD09]. distribute [CRN + 08]. Distributed [ABLP93, AF84, APL86, AW85, BKS88, BEM15, Bur84, CJK95, CM86a, CBGDF95, CS95, DAW88, Dug99, FLBB88, Fra80b, GHS83, HSG17, Huo90, HM84, Jon94, Kat93, KCK84, KKM90, Lam84, LS83, MC82a, RCRH95, SS84, Sch82, TM93, TCP + 17, Zav85, ABL03, FM87a, HVB + 99, KGMO04, LK02, MDJ05, Piq96, Fra80a, Moh81, HVB + 97].
Distributed-Memory [KK98, RCRH95].
div [Bou92]. Dive [YW22]. Divergence [SdSCP13].
Dj [DR05, SGL96, SGL98, UM02]. DJ-graphs [UM02]. DLLs [Dug02]. do [SS05a].
Documentation [MH86]. does [DMP06].
dolce [MP10a]. Dollars [HL22]. Domain [LM18, Tra08, RM07, SS05a]. Domains [CM87a, ELS + 14, GS98, FH04, GLMM05].
dominance [Ana02b, DVO07]. dominator [SGL97].
Dominator [LT79, Ana02b, BCRW98, BCRW05]. Don’t [AKNP17].
Down [HL22, SZLY21]. drf [MSM + 16]. Drinking [CM84, MS88]. Drive [PK80].
Driven [BL87, CS87, GF85, GSW95, JDCO19, PA85, PA86a, PA86b, GT81, XBYL16, DGS97, FPS91, PF96, GT20, YMW97]. Dually [MT08]. Dummy [Lam86].
During [BKB80]. DyC [GMP + 00]. Dyck [LZ22].
Dynamic [ACPP91, AGT89, ASF17, BNN22, BB79, BDM15, Bre89, CGG + 19, CHMY19, CTT07, DS98, Dug99, HSS + 14, HN05, Kaiz99, 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, Per90, Rep86, Wol92]. Editorial [AP07, App93, AG93, AF94, MP07, Mye19, Pal11a, Pal11b, Pal12, Pal13, Pal15, FP02, OP04]. Editors [DMM88, MM89, RTD83, Wat94].
EDO [OKN06]. Eect [Gor21, RLS*01]. Eective [BS83, Col84, JB20, KKN06, NI05, PE08, WJ98, YUW02]. Effectiveness [BdIBH99, 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, GBH99, KSV96, LPSO04, LS09, PBF*07, TP04, VVJB10, YF98, PA86a, SS09]. Efficiently [Bal94, CFR*91, CF95]. Eiffel [ACE96]. elaboration [KR01]. Election [Hua93].
Execution [BNV+21, CS87, DIL90, GJ93, JW17, JNGG10, FS11, SS98, SS88, BALP06, GPA+01, TSY00, YF98].

Exemplars [LaL89]. Exemplified [DGL+79]. Exercise [Kna90, Mis81].

Exhaustive [Bur90a]. Existential [MP88]. existing [LS98]. expansion [DMP96].

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

Experimental [LV94, SSS83, Ven95, ABB+09, BGP99].

Experience [FSS83, Wal92]. experiences [Eug07].

Experimental [LV94, SSS83, Ven95, ABB+09, BGP99].

Expressive [MFRW09]. Expressiveness [WGS92, WGS93, PS96]. Extended [ABC+21, CBMO19, KGMO04]. Extending [CEW14, CMS03, MSRR00, MK94].

Extensibility [LCK+22]. Extensible [HSG17, Sto04, ATD08, MBC04].

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

Extraction [GP95]. extraction [TSL+02]. extrapolation [WM12].

Facets [ASF17]. factoring [DRSS96]. Failure [BN99, Dar90, GHF+19, Kar84].

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

Fairness [ES97, OA88, TB95, AH98].

Fashioned [AL94]. Fast [ADR06, DAS98, FMP011, HVDH07, LT79, LZR22, SR95, DR05, PE08, TP04, VBLG04, DVML15]. 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, GC6, PK82, PP91, Pur91, RSL10, Zav85].

Finite-State [ACW90, BLH12, CES86].


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]. Fixed [SS98]. Fixed-Order [SS98]. Fixpoint [AC94, Qia00].

Flexible [AD98, Hud91, MSM+16, WG98, Wii82b, dJKVS12, IV06, KGMO04].

Floating [CK94, Fat82, SBB+19, Han96, Mon08].

Floating-Point [CK94, Fat82, SBB+19, Han96, Mon08].

flop [MMG00]. Flow [AR80, AD98, ASF17, Bac84, BC85b, Bur90a, DP97, DP93, FJKAO6, Hor97, KDH94, MMR95, NGB13, PO95, PP91, PBR+15, Pur91, S683, SGL98, SS13, Wet82, DGS97, HR02, HY07, KBC+99, Pal98, PS03, RRSV08, RP88, TZ07, WJ98].

Flow-Insensitive [Hor97, FJKAO6].

Flowback [CMN91]. Flowgraph [LT79].


Fly [CF95, BA84, LP06, PBB+07, URJ18]. fold [RKRR04]. Folklore [LY98]. Font [FK85].

G. [Tie88]. Garbage [BA84, CN83, DSW82, ISY88, JCMM19, TM93, URJ18, WLBF16, Wis79, YW22, BBYG+05, BALP06, HDH02, LP06, Peq96, TSBR08]. Garnet [VHM+01]. General [BGL93, CHMY19, HSS+14]. General-Purpose [HSS+14].

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 [Hau96, LdR81, Pic96, 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
[BA09, CP95, CD97, AYO1, 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, FPS91, SV19, BBTS07, DF11, SKS11, SP97].
Higher-Order
[AC94, AD98, CJK95, DJP+16, FPS91, SV19, BBTS07, DF11, SKS11, SP97].
Highly [Her93, SUI95]. Hoare
[Apt81, GM81, LS84, Sok87, Yin11, dBH21].
Hoc [MDCB91]. Holistic
[ZMVPJ17]. Homomorphic
[VS22]. Homomorphisms
[HIT97]. HOP [BLRS12]. 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].

identify [MMM+07]. Identifying
[Ran99, SGL96]. Idioms
[PP94]. IDL
[Lam87]. IEEE [Fat82]. Ignorance
[GNS+15]. Illustrative
[Oss83]. Impact
[BHM+19, OLH+16, CTK86]. Imperative
[AB20, ABPS98, DFR15, Gro06].
Implementation
[AKBLN89, AOC+88, BCD+15, Bou88, Bre89, BS83, CM86b, GMH81, Gas83, Lin93, MDCB91, 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, SJ12]. Implicit-signal
[BH05b]. improve
[KF00]. Improved
[GHR80, Mur91, KK07]. Improvement
[MS83, San96]. Improvements
[BCT94]. Improving
[CK94, CM+95, MCT96, TCF+17, WS97].
impure [Pip97]. Incomplete
[MRGP20, GLMM05]. Incremental
[Bur90a, CP95, DMM88, GM79, HKR92, HKR94, HPM80, Hud91, KAI89, Lar95, LST98, LHR19, PS92, RTD83, RP88, SGL97, WG98, YS91, BBYG+05, CP96, Van96a, Van96b]. Incrementally
[QL91]. Independence
[DHM00, GGV22, 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
[LBMT22]. inefficiencies
[MMP+07]. Inessential
[SS82, LSL84]. Inference
[CEW14, Deb89, Hen93, LO94, LY98].
MRGP20, Pad19, SR21, TB98, Wey83, FFLQ08, JB06, PM06, PT00, PS03, Van06].
Inferring
[FNBC20]. Influence
[FTJ95]. Information
[AR80, Ano82, Ano83, Ano84, Ano85, Ano86b, Ano87, Ano88b, Ano89b, Ano90b, Ano91b, Ano92b, AS17, BC85b,
HR02, NBG13, PBR+15, PS03, GS99, HY07, LN02, OYR09, TZ07. Information-Flow
[BC85b, TZ07]. infrastructure [SWU10].
[BS83, vPS81]. Input-Output [BS83]. Inputs [PA86a]. Insensitive
[Hor97, FJKAA06]. 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 [ST03].
Interaction
[WSH15, WT11, van88, BCM99]. Interactions
[JS94]. Interactive
[ACS84, BS86]. Interconnectability
[TY18]. Interface
[Win87, van88]. Interfaces
[DS90, Mye90, TLHL11, WT11]. Interferences
[FTJ95]. Interfering
[Jon83]. Interleaved
[LZS22]. Intermediate
[Lam87, Pem83, TVS82]. Internal
[Han81a]. Interoperability
[Ao818, GSS+18]. interoperable
[BFTG08]. Interpretation
[BGL93, CFG+97, DC22, DLR16, KRR18, LV94, MSJ94, BDL+08, BdlBH99, DGG97, Leu04, SYYH07]. Interpretation-Based
[DLR16]. Interpretations
[CMB+05, HY91, SJ03]. Interpreters
[LR13, CEG07]. Interprocedural
[Bur90a, BT93, DP97, HAM+05, HS94, HBC99, HRB90, LWR21, ML21, NR06, SH89, CKT86, DVD07, DGS97, FMopS11, JLRS10, KK07, RLS+01]. Interprocess
[RS84b]. Interruptible
[BNV+21]. intersection
[Dan03]. Intertask
[FY85]. Interval
[Bur90a, GNS+15, FH04]. Interval-Based
[Bur90a]. Introduction
[Ahm20, DeM83, HCH82, Mül21, Per90, Rep86, Sag07, Wol92, Yos22]. Invariant
[BKB80]. Invariants
[Cla80, GEGP17]. Irreducible
[Hav97, UM02]. Irregular
[YF98]. Irrelevant
[GP81]. Iso
[LB17, ZZ02]. Iso-Recursive
[LB17, ZZ02]. Isolation
[Wha94]. Isoform
[JJD98]. Isoform-free
[JJD98]. Issue
[Ahm20, Ano18, TGT20, Yos22, Sag07]. Issues
[BO94]. Iterable
[Gor21]. Iterated
[GAE96]. 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, CSMC00, FFLQ08, FM99, GPF08, IPW01, KKN06, KGMO04, KN06, KR01, LST02, LP06, LS08, Loc13, MVE+01, MRE+010, MFRW09, MMG00, NRO6, OKN06, Qia00, RRB19, SLC03, SMP10, SBE+19, SAA99, SYK+05, TN19, TSL+02, WH98]. Java-like
[KN06]. JavaCOP
[MME+10]. JavaGI
[WJS11]. Join
[WKD04]. JR
[KGMO04]. Jump
[LS80, RS84a]. Just
[DLR16, TN19, SYK+05]. Just-In-Time
[TN19, DLR16, SYK+05]. JVM
[HO07].
KaffeeOS
[BH05a]. Kaiser
[Tie88]. Kernels
[BCD+15, ATD08]. Keys
[PB80]. Kilbury
[Lei90]. Kitsune
[HSS+14]. Kleene
[Koz97]. Knot
[MC82a]. knowledge
[GLMM05].
labels
[Sto04]. Laboratory
[BR81]. 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, DVLMI5, Fat82, Fea87, FFF+18, GS5+18, LAM+18].
Gud92, Hal85, HSG17, JMSY92, JPP91, Kail89, LVRG21, McG82, Per79, PPS79, RTD83, RCS93, Spo86, SNS+14, SDD21, Tur84, Wet82, Win89, YS91, YB87, dJKVS12, van88, Bou05, BSvGF03, CFP94, DWWW08, DF98, FM99, Gro06, HBJ98, KN06, LP99, MF09, MWC299, PPT08, PHEK99, Tra08, VHK02, HCW82, YB88.

Language-Based [Kai89, RTD83].


Large [KL82]. Large-scale [ZSS20]. Lattice [AKBLN89, MMR95, FH04]. Lauer [GM81].

Layout [KK98, LVA+83, GPW08, KF00]. Lazy [ABM93, FKW98, HKR94, HDH02, ITF+22, TCVB14, Chi05]. LCF [Sok87].

lead [SS05a]. Leader [Hua93, KKM90]. leak [HDH02]. learned [VHM+01].

Learning [CGJ+97a, HOYY18, JRCO19, 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 [HBM+06]. lifetime [HBM+06]. Lifetimes [Pea21]. Lightweight [Pea21, SW97b]. Like [Hua90, KN06]. Limitations [CP17].


Logical [LS83, Wei90, FGM+07a]. Link [DDD05].


Liveness [ACW90, OL82, RY88, HDH02]. LL [BF87]. LLVM [HL22]. Load [KPF95].

Loaded [BG89a]. Local [BDFZ09, CBDGF95, PT00, SDB20, TSBR08, Wei89, Dam03, Sau96]. Locality [BAC16, MCT96, VAL05, ZSD09]. Locally [AB81, BAC84, Min84]. locating [JNGG10].

Locator [ZMVJ17]. Lock [GEGP17, KS10]. Lock-Free [GEGP17].

lock-freedom [KS10]. locking [AFF06].

LOCKS [BFH11]. Logic [AS89, AFV98, Apt81, BNN22, BGL93, BL87, BCD90, BDJ13, BMPT94, CS04, CES86, CFM94, DW98, Deb99, DL93, Deb95, DJP+16, JPP91, Kar84, LS84, Lam94, MW84, MSJ94, MMG92, PZ22, SS98, Sok87, TK94, TB95, dBH21, BBTS07, BMR01, BCG+07, BliBH99, CO8, CG86, CSS99, DDV99, DPPR00, GHB+06, GW99, HVB+99, HPMS00, KWL09, LMD98, Len04, PM06, RKRR04, SRW02, Yin11, dHB+96].

Logical [BNN18, GGL15, GS98, TY18, RSL10, Tar07].

Look [DP82, GMN+21]. Look-Ahead [DP82]. Lookahead [KKM1, MF88].

Loop [BAC16, CS87, MCT96, Sit79, RKR12].

Loops [BAGM12, Boo82, CK94, DB85, FTJ95, Hav97, Wat91, AN02b, LS04, LSLR05, Ram99, RDG08, SGL06, UM02].

low [CSM00]. low-end [CSM00]. Lower [FNBG20, PW94]. LR [ADGM91, BKL94b, BF87, CPR02, DMM88, Jef03, JP17, KCI01, LaL81, LaL84, SS82, ST00b]. LR-based [KCI01].
M [Bur91, Mul92]. **M-LISP** [Mul92].

**Machine** [CGJ+97a, Cat80, GNS+15, Gie83, Han94, JJC019, LR13, ML80, RF97, SS98, SDB20, Wal92, Zav85, Ano02a, CEG07, CF04, HK07, KN06, Oh07, RRB19].

**machine-checked** [KN06]. **Machine-Code **[LR13]. **Machine-Independent** [ML80]. **Machine-Learning** [JJC019].

**Machine-Specific** [Gie83]. **machinery** [FKW00].

**Machines** [ACW90, Bee94, CGST95, GC86, KK98, PS93, PP91, Rob79, RCR95, KY01, AG04, ABE+05, ABS09, TSY00, Pur91]. **Made** [LM22].

**Madsen** [Eli82, SM82]. **Magma2** [Tur84]. **Maintenance** [GKL94].

**Management** [JPS1, Mur91, SDB20, van88, BP12, WCM00, Zho96].

**Manifast** [Sig17]. **manipulating** [YS10].

**Manipulation** [DVL15].

**many** [AE98].

**massive** [BH07]. **Massively** [CGST05].

**Matching** [AC96, AGT89, CP95, KPS92, ADR06, Van06].

**Matching-Based** [CP95].

**materializations** [RMH06].

**Mathematical** [Ban11, Hes88, LW93].

**MATLAB** [DP99].

**MATLAB(R)** [JB06].

**Matrix** [FT95].

**Matrix-Vector** [FT95].

**Maximal** [BG89b, Rep98].

**Maximal-munch** [Rep98].

**Maximization** [GLO88].

**Maximum** [Kna90].

**May** [Hor97]. **May-Alias** [Hor97].

**MCALIB** [FL15].

**Measures** [NeS20].

**Measuring** [FL15].

**Mechanically** [DSW11].

**Mechanism** [CO90, YB85, DNS+06].

**Mechanisms** [Rei83, HMS06].

**Mechanizing** [Pau01].

**Median** [Com80].

**Medians** [KR88].

**megaflops** [MMG00].

**member** [KF00].

**Memory** [AMT14, CK94, Cha93, CRM019, KZC15, KK98, KRS88, LB22, MSM+16, Mis86, RCR95, SS88, ABH11, 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, BCD09, BF87, HL82, Jon83, Le87, JJ98].

**Methodology** [Ban87, Her93, Sku95].

**Methods** [DAW88, KM81].

**METRIC** [MM+07].

**Mezzo** [BPP16].

**Microanalysis** [HCHP92].

**Microcode** [MV87].

**Microprocessors** [BNV+21].

**Middle-End** [BDP14].

**Middle** [BDP14].

**Might** [Bee94].

**migration** [Piq96].

**Minification** [HLH19].

**Minimal** [FKW98, IPW01].

**Minimization** [RS4a].

**minimizing** [RMH06].

**Minimum** [GHS83].

**Minimum-Weight** [GHS83].

**Mining** [AMT14].

**Missed** [Cop94].

**miss** [GMM99].

**Minx** [HL05, RD13].

**mixins** [ALZ03].

**ML** [Bha99, CBM019, HM93, HT04, PS03, RD13, Sp086].

**Mobile** [LS03, VHB+97, BCC04, KS10, SWU10].

**mod** [Bou92].

**Modalities** [SV20].

**mode** [PS08, ZP10].

**Model** [AY01, Ang89, BK11, BL87, BGP99, CGL94, DLR16, ES97, GS98, GG85, GL94, Han81a, HW92, Ho87, JB20, JJC019, KH92, MSM+16, MMG92, ND16, VSS94, ACM11, AM01, AE01, JJ98, JPS+08, KN06, KV00, Loc13, NP08, QR00, SG04, VWJB10, VALG05, YMW97].

**Model-Checking** [ES97, BGP99].

**Modeling** [AF84].

**Modelling** [AMT14, ADG+21].

**Models** [GJ03, KZC15].

**Modern** [BCF04, LMM21, YW22, RAB+07].

**Modes** [Deb89].

**modest** [LS08].

**Modification** [Lei90, RLS+01].

**Modula** [EO80].

**Modular** [AG04, BMPT94, CDK+18, EMH20, GL94, JBK18, Jag94, KKM09, LN15, MBC04, Wei89, YB85, dJKVS12, KV00, MFRW09, MOS07b].

**modularity** [BA99].

**Module** [PAS+15, RD13].

** Modules**


O [ABPS98, Car95]. Object [DF84, Hu96, KH92, Ryu16, Ste22, WC90, WC91, BSvGF03, DMM01, DDDCG02, FM09, GPWZ08, HB+06, JPS+08, LPS004, Pq96, WJS+00]. Object-Based [KH92]. Object-Oriented [HU96, Ryu16, Ste22, BSvGF03, DMM01, JPS+08, WJS+00].

optimal [CP96]. Optimally [BL94a].

Optimization [BOV85, CGST95, FK85, JCM99, KR94, Lar95, PB97, Hai98, JNZ06, KSV96, MSRR00].

Optimality [CP96]. Optimality [BL94a].

Operator [CSV01, Hen83, LS91]. Operators [Ive79, She91].

Optimistic [PM04].

Operator [CSV01, Hen83, LdR81].

Optimizing [CEG07, KMM98, LSLR05, ML80, NSZS13, QR00, BGKR09].

Or-Parallel [GJ93].

Ori-Parallel [GJ93].

Optimizers [Gie83].

Optimize [DMM01, VBLG04].

Optimized [CM93, Cop94, Hen82, WST85, DS98, UM02].

Optimizer [DF80, FSS83, DF81].

Optimizing [CEG07, KMM98, LSLR05, ML80, NSZS13, QR00, BGKR09].

Or-Parallel [GJ93].

orchestration [PE08].

Order [AC94, AD98, Bur84, CJK95, DP97, JFP91, JS94, SS98, BBTS07, DF11, FPS91, SKS11, SV19, SP97].

ordering [GS99].

Organization [Han81a]. Oriented [Bor81, Dar90, Ell82, FFF18, GKL94, GP81, HU96, Ryu16, SM81, Ste22, Tur84, YB87, YB88, BSVGF03, DWWW08, DMM01, JPS08, WKD04, WP10, WJS00].

origins [San09]. OSI [CDFP89].

Output [Ber80, BS83].

overflow [KOE06].

overhead [BP12, SS96].

overlays [SWU10].

Overload [Bak82].

overloading [SS05b].

Overview [AOC88].

ownership [DDM11, SS96].

Oz [VHB97].

Package [Hi88].

Paper [GM81]. Parallel [ANP98, BG22, BOV85, BO94, BE13, Cha93, CGST95, CMN91, CI94, DS83, Fos96, GLO88, GJ93, GPA01, HCHP92, HIT97, JF81, Kna90, LHR19, Mis94, NSZS13, OA88, Rao94, SS88, VMLY22, BBYG05, CG86, GB99, HBJ98, KSV96, LK02, MVV01, RR03, YF98].

Parallelism [Bur84, GP95, KSV96, NB99, PW94, TCVB14, YBL16].

Parallelization [BAC16, BDJ13, PP94, BdlBH99, BAC16, BDJ13, PP94, BdlBH99, HAM05].

Parallelizing [HP96, ME97, RD97].

Parameter [Gaz83, Zho96].

Parameterization [TWW82].

Parameterized [CG97b, CK93, Gaz83, RKS94].

Parametric [HFC09, MG92, SRW02, IV06].

Parametricities [DDP22]. Parenthesis [AS80].

Parse [CG86].

Parsed [Wad90].

Parser [DBDH84, JP17, LA84, SS95].

Parsers [BN99, LA81, MYD95, PK80, CPRT02, SJ06, ST00b].

Parsing [CH87, DMM88, Fis80, GM79, Lar95, RH87, Sam80, WG98, KO1].

Part [La81, PA85, PA86a, PA86b, Apt81].

Partial [AVF98, CP17, CK93, DS88, Gom92, KCL09, SS89, ADRO6, BP12, CG04, G07, LMD98, Le04, ST00b].

Partially [BLH12, Kob98, RRSY08].

Partially-flow-sensitive [RRS08].

partitioning [RM07, YF09].

Parts [Son87].

Pascal [LS97].

Pass [Bak82, BM94].

Passing [BDM15, Gaz83, SS84, VMLY22, CSW06, Gor04, Zho96].

Passive [AKP94].

past [PM09].

path [Bl94, CIJGP18, SMP10]. path-length [SMP10].

Patient [FFF18].

Patient-Oriented [FFF18].

Pattern [EGP14, ADRO6, JAY04, MTSS09, Van06].

Pattern-Based [EGP14].

Pattern [EGP14].

Pattern-Based [EGP14].

Patterns [GH80].

PDS [Han81b].

PEAK [PE08].

Peephole [DF80, DF81, Pem83, TVS82].

PegaSys [MH86].

Pennaello [Sag86].

Perfect [Duc08].

Performance [HU96, MSM016, PB80, UR18, KF00, PE08].

Performed [Coh91, WIR91].

Permission [BPP16, SNS14].

Permission-Based [BPP16, SNS14].

permissions [Boy10].

Persistent [AM85].

Petri [JT98].

Petri-Net-Based [JT98].

Phases
Profil
[ASAVF19, BL94a, SP97]. Progr
[Bal94, BNNN22, BAL07, BKB80, Col84, DKKL18, Der85, FPS19, Fea82, FOW87, FT94, FL91, HSP83, HKR94, HSD22, Jen97, JJC019, KKW14, KW109, Lam83, Lam88, LFF14, LWR21, MS83, MW80, Mis81, Nie85, PP94, PPS79, Rem81, RPT17, SBS22, TSY00, Wat94, Wey83, ZSD09, Ass00, DDD05, GZ04, KF03, LH08, NS13, Pau01, RAB+07, SLC03, WZ07, WN08, YF90, DKV07]. Progr
[AGT89, Ano18, AR84, ABPS98, BS86, BHM+19, BL87, Bir84, Bor81, BMPT94, BWP87, BCG86, BHM+19, BL87, Bir84, Bor81, BMPT94, BWP87, BCEM15, CHY12, COE+20, CL94, Dar90, DFR15, DGL+79, Dug99, FFF+18, Fos96, FL15, GTWA14, Har80, HK54, HO82, Kf92, Lee86, LVV+83, LMM21, LVRG21, MK94, Mye90, OGJ+18, Pet83b, RCS93, SS84, Ste22, SNS+14, SZBH86, TK94, TGT20, ZSO21, ABH06, BMRI01, Bou06, BdlBH99, CU08, Cg86, CKT86, DWWW08, DPR00, GW99, HBJ98, JPS+08, KM004, MVV+01, MTSS09, MQ05, Tra08, VWJB10, WDK04, WJS+00, Bir85, SWU10]. Progr-in-the-Large
[MK94]. Programs
[AWW95, AK87, AF98, AB20, AR80, AP94, AC94, BL94a, Ban87, BGL93, BC85a, BC85b, Ber94, BCD90, BE94, BE13, BEF+16, CR87, CB80, CM86a, CH93, CFNH18, CFG19, CEW14, CMN91, Cla80, CFM94, CS87, DFG21, DL18, DGM97, DW89, De89, DL93, De95, DP97, Di90, EMH20, EGP14, FJK+17, FNB20, GG85, GM81, Har80, HCP92, HPR89, How80, HIT97, ISY88, ITF+22, JKB18, JW17, Jun83, JF81, Kna90, Lam79, LS83, MSJ94, ML21, MT21, MRGP20, MH86, Mye18, NSZS13, OA88, OL82, PS92, QL91, Rao94, SS98, Sch82, SSS81, SSS88, TOUH21, TN19, VMLY22, Ven90, Web95, Wil82a, AE01, AAE04, BCG+07, CSM06, CSS99, DP99, DDV99, DS98, DMM01, EGM01, GM12, GHB+96, GH97, GPA+01, Hau96, HPMS00, JPS+08, KSV96]. programs
[LMD98, Leu04, LS90, MF90, NR06, PM06, RKRR04, RR03, San96, VJB12, WM12, YS10, Yin11, dHB+96, Bur84, Lam80]. PROLOG
[LV94, AP94, AB94, BC91, CH87, FA93, GPA+01, MB94, NF89, Zho96]. Promotion
[Bir84, Bir85]. Proof
[AFdR80, BDJ13, FRW90, GL80, Moi83, Rag86, SS84, Sok87, WGS92, WGS93, AM01, DSW11, Oho07], proof-carrying
[AM01]. Proof-Directed
[BDJ13]. Proofs
[Apt86, BC85a, CM86b, JW17, LY98, Oss83, GRSK+11]. Propagation
[SR95, WZ91, Apt00, CP96, SS05a, SS08, SS09]. Properties
[ACW90, AS89, CIJGP18, Kar84, LM18, OL82, RY88, TB95, We89, YS10]. Prophecy
[LM22]. Proposed
[Fat82]. prossima
[MP10b]. Protected
[PAS+15, WJS+00]. Protocol
[SL92, YS97]. Protocols
[MB83, BFGT08, SS96]. Prototype
[WC90, WC91]. Prototypes
[HW82]. Provably
[SDB20, GB99]. Provenance
[ZSS20]. provenly
[AAD+07]. Proving
[DGMP97, GC86, Hen86, Kar84, Lam79, Lam80, OL82]. Pruning
[BN99]. PSG
[BS86]. publish
[Eug07], publish/subscribe
[Eug07]. Pure
[BNN18, HU96, Pip97, Tar07]. Purpose
[App94b, HSS+14, Spo86]. Pushdown
[CBMO19]. 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]. R.
[Tic88]. race
[AFF06, PFH11]. Races
[KZC15].
Random [AS80]. Randomized [TOUH21].
Reachability [LZR22, NS13, TOUH21]. Reaction [DFR15, AG04, DGG97].
Read [AE01, PZJ05]. read-only [PZJ05]. Read [AE01]. Readable [Spo86].
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, CS80, DSFG21, Lam88, LN15, Rao94, SDB20, dBH21, TSBR08]. receive [Gor04]. receptive [ABL03].
Recipe [AL94]. reclassification [DDDCG02]. recognition [ATD08]. Recognizer [GHR80].
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 [DSS88, Sor89]. redundancy [KCL+99]. Redundant [Coh83, Coh85].
Reentrant [Bob80]. Refactoring [Ste18, TFK+11].
Reference [Bob80, Pea21, Wis79, KSK07, KOE+06, LP06, MJ05].
reference-counting [LP06]. References [Han92, TGT18, TGT20, SV96].
Referencing [LS81]. Referential [QG95].
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, CBS0, GS98, TLHL11, JJD98, JLR10]. Relations [ELS+14, HT86, LH08]. Relationship [BS88]. Reliability [LM18, WN08].
Reliably [TCP+17]. Rely [GEP17, LFF14, SZLY21].
Rely-Guarantee [GEP17, SZLY21].
Rely-Guarantee-Based [LFF14].
Remembrances [PM09]. Remote [BCP08, SG90]. Removal [AK82].
Rendezvous [Cha87]. Renvoise [Dha91, DS88, Sor89]. Reoptimization [PS92]. reordering [YUW02]. Repair [BN99, MF88, MYD95, KC01]. Repairing [CPR02]. Replacement [MM89].
Replicate [RB94]. replication [RD03].
Reply [Bur91, Fra81, LaL83, Tun83, Wir91, SM82].
Representation [DGL+79, Mul92, SM89, Wad90, Wan82, Mil85].
Representation-Independent [Mul92].
Representations [LM87, RF97, Wal80, Wal81, BGP99].
Resource [CS95, Cla80, IKS05, MQ05, BDFZ09, CEI+07, HR02, HAH12].


Rivieres [CGG, SA00]. Safer [LMM21]. Safe-by-default [BP89, Hua93]. Rings [BBF85, ACE96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96, BMR01, Bou88, BBF85, AC96,


Specifying [GM81, Lam83, RF97].

Sketches [HSD22]. Slicing [AB20, AHJR14, CF94, DL18, GH97, HRRB90, ML21, Mye18, Ven95, WZ07, BHKK07, GZ07, NR06, RAB+07, WR08, ZGZ05]. SLR [BS88, Tai79]. Small [BNV+21, FLBB89, LH91, Pet83b]. Smart [Tie86]. Smarter [SK88, Tie88]. Smooth [TF81]. Soft [WC97]. Software [ACM11, AW85, Ber94, DAW88, HSS+14, How80, JW17, PXL95, PPS79, Pur94, Wal92, YBL16, CTT07, HN05, LS98, ME97, NCH+05, RDG08, SHB+07, SRM10].


Specifying [GM81, Lam83, RF97].
BKL+, Cla80, DKKL88, MW80, MW84, MV87, SBS22. System [AFdR80, AW85, BS86, Bou88, CB80, Cee82, GD82, GP81, Han81b, HM84, JMSY92, LR13, ML80, Moi83, MH86, PO95, RD13, SA99, WC97, BH05a, FH04, FM99, HS07, 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, Gor92, Han81b, HS07, JB06, KS10, MTSS09, NP08, PE08, STSP05, MWCG99].
Systolic [BD91, PK80].
Table [BMW91, PK80, DAS98].
Table-Drive [PK80].
Tabled [SS98].
Tables [ADGM91, DDH84].
TaDA [DSFG21].
Tail [DP97, CF04].
Tail-Call [DP97].
tail-recursive [CF04].
Tailored-List [Kau84].
Tale [TY21].
Tanzenbaum [Pem83, Tan83].
Target [Wan82].
Task [GP95, NSZS13, RRB19, HBJ98], task-[HBJ98].
Task-Level [GP95].
Task-Parallel [NSZS13].
Tasking [Dil90].
Tasks [GP91].
Taylor [SBB+19].
tcc [PHEK99].
Technical [BS88, Bu90b, Bu91, Coh91, CM93, DS88, Ell82, FA93, Fra81, Hen93, LaL83, LaL84, Moh81, Moi83, MS88, NN86, Par90, Pem83, Sor89, SM82, Tan83, Tie88, Vol91, WST85, Wh91, YBB88, MMG99].
Technique [AWW95, BN99, BCD+15, JSB+12, KKM90, SSS81, SSS83, JNMG10, KBC+99, RD97, SYN96].
Techniques [AK82, CMN91, DP99, GLR83, How80, TWW82, WCW90, WCW91, BHK07, DDD05, DEMD00, LS98, MSRR00, SS96, TLS+02].
technology [LS98].
Temporal [AS89, CBDGF95, CES86, Kar84, Lam94, MW84, GS99, KW09].
temporal-ordering [GS99].
temporaries [RMH06].
Ten [APT81].
Tensor [RTP17, SBS22].
Tentative [Jon83].
Tenuring [UJ92].
Term [KKSD94, MBT09, GRK+11].
Termination [AF84, Apt86, BAGM12, BCG+07, CFNH18, CDA+18, DSFG21, DG19, FRA80b, GJ05, HSP83, JBK18, MC82b, TM93, BAL07, BA08, DDV99, GRK+11, Lee09, PR07, SMP10, Fra80a, Moh81].
Test [Wey83, WW95, Duc08].
Testing [AMT14, GMH81, TK94].
Tests [Coh91, Kos97, Wir91, GZ05].
Text [CC97].
TF [SBS22].
TF-Coder [SBS22].
Their [Kam83, LaL84, SS82, PS96].
Theoretic [ES97, Sha82, KV00].
Theoretical [KRR18].
Theories [NDT+15, Bou06].
Theory [AB20, C84, KD94, KRS94, NG13, Ryu16, TLHL11, CGP09, MBH06, Ok07, Pak01, SS05, Bla03, FG03].
ThingLab [Bor81].
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Thinning [Web95].
Third [Wol92].
ThisType [Ryu16].
Thread [YB16].
Thread-Level [YB16].
Threaded [JBB18, IT+22, TSY00].
Three [DP97, Oss83].
Tichy [Tie88].
Tile [JB20].
tiling [JLF02, LS04, RKS+12].
Time [AL94, ABR81, BL94b, BLH12, Coh91, DLR16, HBS22, Hol87, ISY88, Je85, Lam84, MMG99, PS93, RS84a, RS84b, TN19, Wir91, YR94, Zie94, BAL07, BALP06, BK908, BKR05, DDD05, GH97, GMP+00, GB99, GW99, HK07, LS98, LPP01, LS09, Mii85, Ram99, Rep98, SYK+05, Tra08, TZ07, Wu04, YWM97, LW93].
Time-Constrained [Ziel94, LPP01].
Time-Critical [PS93].
time-efficient [GB99, YF98].
Time-sensitive [HBS22].
Timed [Ziel94].
Timeout [Lam84].
Timing [LJ99].
tokenization [Rep98].
Tolerance [LJ99].
Tolerant [CS95, Lam84, AAE04].
Tool [PS93].
Toolkit [BDFH97]. toolkits
[VHM+01]. Tools [van88]. Top [SZLY21].

Top-down [SZLY21]. TOPLAS
[Ano18, TGT20, MP10a, MP10b]. topology [DDM11].
Total [San96]. Trace
[ABC+21, FGL94, WGS92, Ban11, RM07, SJ03, WGS93, WM12]. Trace-Based
[WGS92, WGS93, WM12]. Trace-relating tracess [HBM+06, WR08].
Tracing [BL94a, DLR16, MMM+07].

tradeoffs [ZGZ05]. Trailling [VR95]. Traits
[DNS+06]. Transactional
[URJ18, ABHI11, CF+04]. Transactions
[Ano18, HKMN94, TGT20]. Transducer [DVML15].
Transducer-Based [DVML15]. Transformation
[BKB80, FEA91, FL91, NSZS13, Wat91, RKRR04, San96, TSY00, WZ07].

Transformational [BDFH97, Bir84, Bir85, DSW82, OA88, RC03]. Techniques
[Bar85, EGM01, LdRS81, LFF14, MS83, MCT96, Nic85, FGM+07a, KWL09, MOS07a, VALG05, WS97, Hen83, NN86].
Transformers [Lam90, MMS96, MBT09].

TransformGen [GK94]. Transforming
[AWW95, BE94]. Transition [PR07].

Translation [AK87, BK11, Kat84, Son87, ADD+07, BGKR09, DP99, RC03].
Transmission [HL82]. Transiently
[JSB+12]. Transport [Min94]. transpose
[CRN+08]. Traversals [LPS04].

Treatment [YB87, YB88]. Tree
[AGT89, BOV85, BM91, DVML15, DS83, Han81a, Hen83, LdRS81, FGM+07a].
Trees [Com80, GHSS83, MTG80, Sp82, Wad90, ACM11, SGL97].

Treeheight
[CIJGP18, CCG+19]. trick [DMP96].

Truth [BDH+16]. TSL [LR13].
tuning
[GM09, 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, KU93, KR01, Lan80, LO94, LST02, LY98, LP00, MRGP20, MP88, NBS13, Pad95, SA95, SM89, Ste22, TW82, TGT18, TGT20, Van06, VMLY22, Wal80, WT11, Wir88, WC97, BSvGF03, BCG+07, FJKA06, FM07b, FF08, GZ07, GMZ00, HO07, HJ82, HY07, KF10, KS10, NP98, NCH+05, PT00, STSP05, TFK+11, TZ07, Wal81, Wir91].

Type-based
[Eng07, 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, Kob98, NN86, WCM00, AAR+10, LP99, MWCG99].

Types
[AFF06, AC93, BG22, BB94, BCEM15, DDMP22, DPP22, DD85, EPO0, FFLQ08, GEGP17, HL82, Jes88, Jen97, Kam83, KBP22, LaL89, LO94, LBN17, Loe87, Mal82, Mio19, MP88, WL85, Wei89, Wei90, AM01, BBF+11, Dam03, DMM11, Gro96, GPV07, HVP05, IV06, MME+10, PS96, Pal98, STS03, SP07].

Typestate
[COE+20, GTWA14].

Typestate-Oriented
[GTWA14].

Typing
[ACPP91, DG19, Dud99, GGSV22, RM10, SV96].

ultimate
[PS08].

Unicpus
[Sch80].

Unassigned
[Win84].

Unbounded
[LWR21, BCG99].

Uncaraght
[LP00].

Undecidability
[Ram94, Rep00, Chat02].

Undecidable
[Ram00].

Understandable
[MSM+16].

Understanding
[ST00a].

Undo
[Lee86].

unfold unfolded
[RKRR04].

Unidirectional
[Pet82].

Unification
[MM82, DRSS96].

Unified
[VSS94].

Uniform
[COE+20, GTWA14].

Unify
[ACPP91, DG19, Dud99, GGSV22, RM10, SV96].
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, DiI90, DMM01, DJP+16, FLBB89, GSW95, GSO94, HRB90, ISIRS22, JTM98, Kar84, LaL89, Lam84, LM18, LWR21, Mye90, Ode93, Pet83b, PP94, PBR′15, SS84, SS96, Sok87, SGL98, TVs82, ACM11, BH99, CSW06, CGS′03, DR05, GS99, GCRN11, KLW09, KSK07, MTS09, RD03, SZLY21, ST00a, SGL96, TFK′11, VJB12, XA07, YUW02, ZSD09, Pem83].
Utilizing [ES97].

VAL [McG82, Wet82]. Validation [How80, KC01, MOS07a]. Value [HL82, dBH21, HL05, SW97a]. Valued [RMH06, SRW02]. Values [DD85, Han92, HSD22, Wet82]. Variable [MS83, MTG80, FMoPS11, GLMM05]. Variables [GSW95, JPP91, Lam88, LH91, Pet83b, Rem81, Sch85, BGP99, HVB′99, NS13, SV96]. Variant [IV06]. variants [FG03]. Variational [CEW14]. Variety [NC520]. Vector [AK87, Bud84, CBMO19, Fis80, FTJ95, KD94, Per79, KK07].

Verifiable [YB85]. Verification [App15, BDP14, BCD′15, CDFP89, CES86, CPS93, CHMY19, DiI90, EGP14, GL94, ITF′22, JBK18, Jon94, JTM98, KKW14, LFF14, LJJ99, LCK′22, LS79, MTK21, NBG13, RY88, SZLY21, BDL′08, CEI′07, GPF08, GM12, Qia00]. Verified [BFGT08, BKL′97, HLZ22, JLP′14, DSW11].

Verifying [AS89, BFG08, CGJ97b, DJP′16, GEGP17, LM18, YS10, Mon08]. Version [YR94]. Versions [HPR89]. Versus [DPP22, Pal98, Pip97, UM02]. Vertices [BGH′13]. Very [GLR83]. VHDL [BKL′97]. via [CEI′07, FKW98, GPF08, GSO94, HLH19, HOYY18, ITF′22, MMM′07, PE08, RTP17, SRW02, SV20, Tra08, WCM00]. View [KBP22, SZBH86, FGM′07a]. view-update [FGM′07a].


W [Tie88]. Wait [Her91]. Wait-Free [Her91]. Waite [BP82]. Warp [LW93]. way [VHM′01]. Weak [AMT14, KZC15]. weakening [SYHY07]. Weaker [Boo82]. web [BFG08, BLRS12, CHY12, CGP09, CMS03]. Weight [GHS83]. While [Pet83a, BC85b, GM81]. while-Programs [BC85b]. Whole [BDH′16]. Widening [KKW14, VJB12]. win [Lam90]. Within [FKW98]. Without [Cop94, Ode93, AS89, Cas95, Sto04, VR95].


X [OLH′16, MSM′16]. X-Sensitive [OLH′16]. X10 [GHH′19]. XARK [ATD08]. XML [HVP05, HFC09]. XSL [MOS07a].

Years [Apt81].

ZGC [YW22]. Zones [GMN′21].
References

Ancona:2007:PCT


Attie:2004:SFT


Ahmed:2010:SFT


Anderson:1981:LLC


Arbab:1994:SCD


Amtoft:2020:TSI


Acar:2009:EAS

REFERENCES


REFERENCES


[Apt1998:AIL] 


[Ariola:2009:SCA] 


[Amadio:1993:SRT] 


REFERENCES


Alglave:2021:ACF


Ancona:1991:ECL


Ager:2006:FPE


Attie:2001:SCP


Apt:1984:MDT


Appel:1994:E

REFERENCES


**Aung:2014:SS**


**Ahmed:2020:ISI**


**Arsac:1982:STR**


**Alglave:2017:DSF**


**Ait-Kaci:1989:EIL**


**Ait-Kaci:1994:FPC**

Abadi:1993:CS

Abadi:1994:OFR

Abadi:1995:CS

Ancona:2003:JDJ

Atkinson:1985:PPD

Appel:2001:IMR

Alglave:2014:HCM
REFERENCES


REFERENCES

Anonymous:1988:AI

Anonymous:1988:IA

Anonymous:1989:AI

Anonymous:1989:IA

Anonymous:1990:AI

Anonymous:1990:IA

Anonymous:1991:AI

Anonymous:1991:IA

Anonymous:1992:AI

Anonymous:1992:IA
<table>
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<tr>
<th>Author</th>
<th>Year</th>
<th>Title</th>
<th>Journal</th>
<th>Volume/Issue</th>
<th>Pages</th>
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<td>Anonymous</td>
<td>1994</td>
<td>Author index</td>
<td>ACM Transactions on Programming Languages and Systems</td>
<td>16(6)</td>
<td>1904–1907, October 1994</td>
<td>ATPSDT</td>
<td>0164-0925</td>
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<tr>
<td>Anonymous</td>
<td>1995</td>
<td>Author index</td>
<td>ACM Transactions on Programming Languages and Systems</td>
<td>17(6)</td>
<td>938–940, November 1995</td>
<td>ATPSDT</td>
<td>0164-0925</td>
</tr>
<tr>
<td>Anonymous</td>
<td>1998</td>
<td>Author index</td>
<td>ACM Transactions on Programming Languages and Systems</td>
<td>20(6)</td>
<td>1323–1325, November 1998</td>
<td>ATPSDT</td>
<td>0164-0925</td>
</tr>
<tr>
<td>Anonymous</td>
<td>2002</td>
<td>Automatic derivation of compiler machine descriptions</td>
<td>ACM Transactions on Programming Languages and Systems</td>
<td>24(4)</td>
<td>369–408, July 2002</td>
<td>ATPSDT</td>
<td>0164-0925</td>
</tr>
<tr>
<td>Anonymous</td>
<td>2002</td>
<td>On loops, dominators, and dominance frontiers</td>
<td>ACM Transactions on Programming Languages and Systems</td>
<td>24(5)</td>
<td>455–490, September 2002</td>
<td>ATPSDT</td>
<td>0164-0925</td>
</tr>
<tr>
<td>Anonymous</td>
<td>2018</td>
<td>Corrigendum</td>
<td>ACM Transactions on Programming Languages and Systems</td>
<td>40(4)</td>
<td>18:1–18:??, December 2018</td>
<td>ATPSDT</td>
<td>0164-0925</td>
</tr>
<tr>
<td>Ed Anson</td>
<td>1987</td>
<td>A generalized iterative construct and its semantics</td>
<td>ACM Transactions on Programming Languages and Systems</td>
<td>9(4)</td>
<td>567–581, October 1987</td>
<td>ATPSDT</td>
<td>0164-0925</td>
</tr>
</tbody>
</table>


REFERENCES


Leif Andersen, Vincent St-Amour, Jan Vitek, and Matthias Felleisen. Feature-specific profiling. *ACM Transactions on

Austin:2017:MFD


Assmann:2000:GRS


Arenaz:2008:XEF


Ashcroft:1982:RS


Avrunin:1985:DAD


Aiken:1995:SST


Alur:2001:MCH

REFERENCES


Ben-Ari:1984:AFG


Blume:1999:HM


Ben-Amram:2008:SCT


Backhouse:1984:GDF


Bondhugula:2016:PAP


Bagrodia:1989:SAP


Ben-Amram:2012:TIL

Baker:1982:OPA


Ball:1994:ECP


Ben-Amram:2007:PTA


Brecht:2006:CGC


CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Banerjee:1987:MSR


Banerjee:2011:MFT


Barnden:1981:NCA


Barstow:1985:CTD

[Bar85] David Barstow. On convergence toward a database of program transformations. *ACM Transactions on Programming Languages and Systems*, 7(1):
REFERENCES

Bengtson:2011:RTS

Biering:2007:BHH

Barabash:2005:PIM

Bobrow:1979:CEL

Bhaskaracharya:2016:ASO

Bier:1979:SED

Breuer:1994:DET

Bengtson:2011:RTS

Biering:2007:BHH

Barabash:2005:PIM

Bobrow:1979:CEL
Bates:1985:PP

Bergereretti:1985:IFD

Brogi:1991:CLS

Bugliesi:2004:ACM

Bossi:1990:MSL

Betts:2015:DIV

Bugliesi:2015:ART
Michele Bugliesi, Stefano Calzavara, Fabienne Eigner, and Matteo Maffei. Affine refinement types

**Benton:2004:MCA**


**Bruynooghe:2007:TAL**


**Bottoni:1999:SDC**


**Bhatia:2008:RSE**


**Briggs:1994:IGC**


**Bergstra:1997:TCT**

REFERENCES


[Biernacki:2015:DCP] Dariusz Biernacki, Olivier Danvy, and Kevin Millikin. A dynamic continuation-passing style for dynamic delimited continuations. ACM Transactions on Programming Languages and
Boorman:1993:RAN

Barthe:2014:FVS

Bouajjani:2013:ARP

Beemster:1994:SOG

Brockschmidt:2016:ARS

Bernstein:1980:OGN
Bernstein presents a distributed algorithm for CSP output guards based on priority ordering of processes.


[BG22] Patrick Baillot and Alexis Ghyselen. Types for complexity of parallel computation in
REFERENCES


REFERENCES


**Buhr:2005:ISM**


**Binkley:2007:ESO**


**Blackburn:2007:PBP**


**Berger:2019:IPL**


**Bird:1984:PAS**


**Bird:1985:APA**


**Barthe:2011:AMC**

REFERENCES

ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).


REFERENCES

**Bic:1987:DDM**


**Ball:1994:OPT**


**Bates:1994:RSL**


**Boudon:2012:PEF**


**Bloss:1994:PAO**


**Boudol:2012:RAW**

REFERENCES


REFERENCES


REFERENCES


REFERENCES


Balakrishnan:2010:WWY


Brent:1989:EIF


Buckley:1983:EIG

G. N. Buckley and Abraham Silberschatz. An effective implementation for the generalized input-output construct of CSP. ACM Transactions on Programming Languages and Systems, 5(2):223–235, April 1983. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic). They present a distributed algorithm for CSP output guards based on priority ordering of processes. Their algorithm has the property that two processes that can communicate and do not establish communication with a third process will communicate within a bounded time.

Bahlke:1986:PSF


Bermudez:1988:NRB


Bruce:2003:PTS

Kim B. Bruce, Angela Schuett, Robert van Gent, and Adrian Fiech. PolyTOIL: a type-safe polymorphic object-oriented language. ACM Transactions on
REFERENCES


**Burke:1993:IOE**

**Budd:1984:ACV**

**Burton:1984:ACP**

**Burke:1990:IBA**

**Burton:1990:TCT**

**Burton:1991:TCA**

**Broy:1987:ADP**
Manfred Broy, Martin Wirsing, and Peter Pepper. On the algebraic definition of program-
REFERENCES


Conrad Cotton-Barratt, Andrzej S. Murawski, and C.-


[CEG07] Kevin Casey, M. Anton Ertl, and David Gregg. Optimizing indirect branch prediction accuracy in virtual machine interpreters. *ACM Transactions on Programming Languages and Systems*,
REFERENCES


[CFG+97] Agostino Cortesi, Gilberto File, Roberto Giacobazzi, Catuscia

Chatterjee:2019:NPW


Codish:1994:SAC


Chatterjee:2018:AAQ


Cortes:2004:HLA


Cytron:1991:ECS


Clark:1986:PPP

Keith Clark and Steve Gregory. Parlog: parallel programming in logic. *ACM Transactions on Programming Lan-
REFERENCES


Castagna:2009:TCW

[CGP09]

Choi:2003:SAS

[CGS+03]

Chatterjee:1995:OEA

[CGST95]

Cohen:1987:PCU

[CH87]

Chow:1990:PBC

[CH90]

Charlesworth:1987:MR

[Cha87]

Chatterjee:1993:CND
Siddhartha Chatterjee. Compiling nested data-parallel programs for shared-memory mul-

[Cha93]
REFERENCES


Henry Cejtin, Suresh Jagannathan, and Richard Kelsey. Higher-order distributed objects. ACM Transactions on Programming Languages and Systems, 17(5):704–739,
September 1995. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Consel:1993:PPE


Carr:1994:IRM


Crowl:1994:PPC


Chambers:1995:TMM


Clarke:1980:SRI


Chandy:1984:DPP

[CM84] K. M. Chandy and Jayadev Misra. The drinking philoso-


REFERENCES


[L. Colussi. Recursion as an effective step in program development. ACM Transactions on Programming Languages and Systems, 6(1):55–67, January 1984. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).]


Cleaveland:1993:CWS


Carson:1987:GSP


Cooke:2008:NTD


Choy:1995:EFT


Chen:2004:LGS


Clausen:2000:JBC

Lars Ræder Clausen, Ulrik Pagh Schultz, Charles Consel, and Gilles Muller. Java bytecode compression for low-end embedded systems. ACM Trans-
Codish:1999:SGD


Cooper:2001:OSR


Carlsson:2006:MAC


Collberg:2007:DGB


Cheney:2008:NLP


Constable:1984:TTP

REFERENCES


[dBH21] Frank S. de Boer and Hans-Dieter A. Hiep. Completeness and complexity of reasoning about call-by-value in
REFERENCES


REFERENCES


REFERENCES


Davidson:1980:DAR


Davidson:1981:CDA


Davidson:1984:CST


Douence:1998:SSF


Demoulas:2011:CSH


Demetrescu:2015:RIP


DalLago:2019:PTM

REFERENCES


Dams:1997:AIR

Dewar:1979:PRE

DeBoer:1997:PCC

Duesterwald:1997:PFD

Dhamdhere:1991:PA

delaBanda:1996:GAC


Mike Dodds, Suresh Jagannathan, Matthew J. Parkinson, Kasper Svendsen, and Lars Birkedal. Verifying custom synchronization constructs using higher-order separation logic.
Darulova:2017:TCR


David:2018:PSP


Drinic:2007:PPC


Debray:1993:CAL


Danicic:2018:SBS


Dissegna:2016:AIB


Degano:1988:EIL

REFERENCES

Diwan:2001:UTA


Danvy:1996:EED


Ducasse:2006:TMF

[DNS+06] Stéphane Ducasse, Oscar Nierstrasz, Nathanael Schärli, Roel Wuyts, and Andrew P. Black. Traits: a mechanism for fine-grained reuse. *ACM Transactions on Programming Languages and Systems*, 28(2):331–388, March 2006. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

DeRemer:1982:ECL


Dhamdhere:1993:EAB


Debray:1997:ICF


DeRose:1999:TTM


REFERENCES


REFERENCES


[EGP14] Javier Esparza, Pierre Ganty, and Tomás Poch. Pattern-based verification for multi-
threaded programs. ACM Transactions on Programming Languages and Systems, 36(3):9:1–9:??, September 2014. COachenCODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Ellis:1982:TCS


Elder:2014:ADA


Eilers:2020:MPP


Ernst:1980:SAD


Emerson:1997:USW


Eugster:2007:TBP


Finlay:1993:TCC

[FA93] Alan Finlay and Lloyd Allison. Technical correspondence: a correction to the denotational semantics for the Prolog of Nicholson and Foo. ACM Transactions on Programming Lan-
REFERENCES

URL http://www.acm.org/pubs/toc/Abstracts/0164-0925/151652.html. See [NF89].

Fateman:1982:HLL

Feng:2012:BQP

Feather:1982:SAP

Feather:1987:LSS

Flanagan:1999:CSB

Furr:2008:CTS

Florence:2018:PPP
REFERENCES

ACM Transactions on Programming Languages and Systems, 40(3):10:1–10:??, August 2018. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Flanagan:2008:TAS


Fournet:2007:CBT


Fournet:2007:TDA


Fernandez:2004:ICS


Fidge:1993:FDP

REFERENCES


REFERENCES


Fradet:1991:CFL


Frechtling:2015:MMS


Fischer:1989:DFA


Flexeder:2011:FIL

Andrea Flexeder, Markus Müller-olm, Michael Petter, and Helmut

Frohn:2020:ILR


Foster:1996:CPP


Ferrante:1987:PDG


Fischer:2002:GE


Facchinetti:2019:HOD


Francez:1980:CDT


Francez:1980:DT

REFERENCES

[0164-0925 (print), 1558-4593 (electronic). See also corrigendum [Fra80a] and remarks [Moh81, Fra81].

Francez:1981:TCR


[89]

[FRW90]


Farmer:1990:CPC

[FT94]

Ian Foster and Stephen Taylor. A compiler approach to scalable concurrent-program design.


Fricker:1995:ICI


Francez:1985:SIC


Freudenberger:1983:ESO

Lal George and Andrew W. Appel. Iterated register coalescing. ACM Transactions on Programming Languages and Systems, 18(3):300–324, May 1996. CODEN ATPSDT. ISSN 0164-0925
REFERENCES


REFERENCES


REFERENCES

Gerber:1997:SRT


GarciaDeLaBanda:1996:GAC


Grov:2019:FRR


Griswold:1981:G1

[Ralph E. Griswold, David R. Hanson, and John T. Korb. Generators in Icon. *ACM Transactions on Programming Languages and Systems*, 3(2):144–161, April 1981. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).]

Ghosh:1993:ASP


Graham:1980:ICF


Gallager:1983:DAM


[GHK81] Ralph E. Griswold, David R. Hanson, and John T. Korb. Generators in Icon. *ACM Transactions on Programming Languages and Systems*, 3(2):144–161, April 1981. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).]
REFERENCES


Giegerich:1983:FFD


Gupta:1993:APE


Glenstrup:2005:TAS


Garlan:1994:TAM


Gharat:2020:GPG


Gries:1980:APC


Grumberg:1994:MCM

REFERENCES


REFERENCES


REFERENCES


REFERENCES

Gawlitza:2011:SSR


Gupta:1994:ERA


Grimmer:2018:CLI


Gerlek:1995:BIV


Garcia:2014:FTO


Gudeman:1992:DSG


Grosser:2015:PAG

[GVC15] Tobias Grosser, Sven Verdoolaege, and Albert Cohen. Polyhedral AST generation is more than scanning polyhedra. *ACM Transactions on Programming Languages and Systems*, 37(4):12:1–12:??, August 2015. CODEN ATPSDT. ISSN 0164-
Gudjonsson:1999:CTM


Glesner:2004:NSS


Gil:2005:EST


Gil:2007:EDD


Hoffmann:2012:MAR


Hailperin:1998:COC


Hailperin:2005:CCC

REFERENCES

Halstead:1985:MLC


Hall:2005:IPA


Hansen:1981:CMI


Hanson:1981:APP


Harel:1980:PNA


Hausner:1996:APP


Hall:2005:IPA


Hansen:1992:SRF


Hannan:1994:OSD


Hauser:1996:HFP


REFERENCES


REFERENCES

Henglein:1993:TIP

Herlihy:1991:WFS

Herlihy:1993:MIH

Hesselink:1988:MAN

Haynes:1987:ECP

Hosoya:2009:PPX

Hennessy:1983:PCO
REFERENCES


Hall:1996:TCH


Hilfinger:1988:APD


Hu:1997:FDE


Heering:1985:TMP


Henzinger:2007:EMP


Haines:1994:CFC


Heering:1992:IGL

J. Heering, P. Klint, and J. Rekers. Incremental generation of lexical scanners. *ACM Transactions on Programming Lan-

Heering:1994:LIP


Herlihy:1982:VTM


Hirschowitz:2005:MMC


Haslbeck:2022:FDM


Hague:2019:CMC


Hull:1984:CSP


Harper:1993:TSS

REFERENCES


REFERENCES


REFERENCES


Christopher M. Hayden, Karla Saur, Edward K. Smith, Michael Hicks, and Jeffrey S. Foster. Kitsume: Efficient, general-purpose dynamic software updating for C. *ACM Transactions on Pro-
ISSN 0164-0925 (print), 1558-4593 (electronic).

Horwitz:1986:GEE


Helsen:2004:PSM


Holzle:1996:RRP


Huang:1990:DDD


Huang:1993:LEU


Hudson:1991:IAE


Haridi:1999:ELV

Seif Haridi, Peter Van Roy, Per Brand, Michael Mehl, Ralf Scheidhauer, and Gert
REFERENCES


REFERENCES


[IPW01] Atsushi Igarashi, Benjamin C. Pierce, and Philip Wadler. Featherweight Java: a minimal core calculus for Java and GJ. ACM Transactions on Programming Languages and Systems, 23(3):396–450, May 2001. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).


[Jag94] Suresh Jagannathan. Metalevel building blocks for modular systems. ACM Trans-


REFERENCES


REFERENCES

2014. CODEN ATPS DT. ISSN 0164-0925 (print), 1558-4593 (electronic).

[Jeannet:2010:RAI] Bertrand Jeannet, Alexey Logi-

nov, Thomas Reps, and Mooly Sagiv. A relational approach to interprocedural shape analysis. *ACM Transactions on Program-

ming Languages and Systems*, 32 (2):5:1–5:52, January 2010. CO-

DEN ATPS DT. ISSN 0164-0925 (print), 1558-4593 (electronic).

[JLRS10] Bertrand Jeannet, Alexey Logi-

nov, Thomas Reps, and Mooly Sagiv. A relational approach to interprocedural shape analysis. *ACM Transactions on Program-

ming Languages and Systems*, 32 (2):5:1–5:52, January 2010. CO-

DEN ATPS DT. ISSN 0164-0925 (print), 1558-4593 (electronic).

[JMSY92] Joxan Jaffar, Spiro Michaylov, Peter J. Stuc-

key, and Roland H. C. Yap. The CLP(R) language and system. *ACM Transactions on Program-

ming Languages and Systems*, 14(3):339–395, July 1992. CO-

DEN ATPS DT. ISSN 0164-0925 (print), 1558-4593 (electronic).


key, and Roland H. C. Yap. The CLP(R) language and system. *ACM Transactions on Program-

ming Languages and Systems*, 14(3):339–395, July 1992. CO-

DEN ATPS DT. ISSN 0164-0925 (print), 1558-4593 (electronic).


[Jon83] Larry G. Jones. Efficient evaluation of circular attribute grammars. *ACM Transactions on Programming Lan-


[JNGG10] Dennis Jeffrey, Vijay Nagara-

jan, Rajiv Gupta, and Nee-

lam Gupta. Execution sup-

pression: an automated it-

erative technique for locating memory errors. *ACM Transactions on Program-

ming Languages and Systems*, 32(5):17:1–

17:36, May 2010. CODEN ATPS DT. ISSN 0164-0925 (print), 1558-4593 (electronic).

REFERENCES

Jazayeri:1981:SES


Jourdan:2017:SPC


Jagadeesan:1991:FAS


Joung:1994:CFO


Joisha:2012:TTE


Juan:1998:CVC

REFERENCES


Jakobs:2017:PPF


Kaiser:1989:IDS


Kamin:1983:FDT


Karp:1984:PFF


Katayama:1984:TAG


Katz:1993:SCC


Kaufman:1984:TLR

REFERENCES

Kandemir:1999:GCO


Keizer:2022:SCC


Kim:2001:ERV


Kennedy:1999:PRE


Khedker:1994:GTB


Kistler:2000:ADM

Kistler:2003:CPO


Knowles:2010:HTC


Keen:2004:JFD


Kaiser:1992:OBP


Kennedy:1998:ADL


Karkare:2007:IBC


Korach:1990:MTD

REFERENCES

Kawahito:2006:ESE


Kennaway:1994:AGR


Kaiser:2014:WAM


Koopman:1992:CBC


Kristensen:1981:MCL


Kelly:1998:OCC


Klein:2006:MCM

Gerwin Klein and Tobias Nipkow. A machine-checked model for a Java-like language, virtual machine, and compiler. ACM Transactions on Program-
REFERENCES


Knapp:1990:EFD


Kobayashi:1998:PDF


Kim:2006:ERI


Kozen:1997:KAT


Kurlander:1995:EIS


Katzenelson:1992:TMT


Kobayashi:1999:LPC

[KPT99] Naoki Kobayashi, Benjamin C.
REFERENCES


Kennedy:1979:DAG


Knoblock:2001:TES


Krogh:1982:AAP


Krogh:1983:AAP


Krogh:1984:AAP


Krogh:1985:AAP


Krogh:1986:AAP


Krogh:1987:AAP

[Kro87] F. T. Krogh. ACM algorithms policy. *ACM Transactions on Programming Lan-
REFERENCES

Krogh:1988:AAP


Krogh:1989:AAP


Krogh:1990:AAP


Krogh:1991:AAP


REFERENCES


REFERENCES

Khedker:2007:HRA


Knoop:1996:PFE


Kfoury:1993:TRP


Kuperman:2000:ATA


Kalvala:2009:PTU


Kasikci:2015:ACD

[Baris Kasikci, Cristian Zamfir, and George Candea. Automated classification of data races under both strong and weak memory models. *ACM Transactions on Programming Languages and Systems*, 37(3):8:1–8:??, June 2015. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).]

LaLonde:1981:CSC

LaLonde:1983:TCL

LaLonde:1984:TCC
Wilf R. LaLonde. Technical correspondence: Comments on Soisalon-Soininen’s “Inessential Error Entries and Their Use in LR Parser Optimization”.
*ACM Transactions on Programming Languages and Systems*, 6 (3):432–439, July 1984. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic). See [SS82].

LaLonde:1989:DFD
Wilf R. LaLonde. Designing families of data types using exemplars.

Lamport:1979:NAP
Leslie Lamport. A new approach to proving the correctness of multiprocess programs.
*ACM Transactions on Programming Languages and Systems*, 1(1):84–97, July 1979. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic). See also corrigendum [Lam80].

Lamport:1980:CNA

Lamport:1983:SCP
Leslie Lamport. Specifying concurrent program modules.
*ACM Transactions on Programming Languages and Systems*, 5(2):190–222, April 1983. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Lamport:1984:UTI
Leslie Lamport. Using time instead of timeout for fault-tolerant distributed systems.
*ACM Transactions on Programming Languages and Systems*, 6 (2):254–280, April 1984. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Lamb:1987:ISI
David Alex Lamb. IDL: Sharing intermediate representations.
*ACM Transactions on Programming Languages and Systems*, 9
REFERENCES

Lamp:ort:1988:CPB

Leslie Lamport. Control predicates are better than dummy variables for reasoning about program control. ACM Transactions on Programming Languages and Systems, 10(2):267–281, April 1988. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

[Lam88] Leslie Lamport. Control predicates are better than dummy variables for reasoning about program control. ACM Transactions on Programming Languages and Systems, 10(2):267–281, April 1988. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Lamp:ort:1990:WSP


Lahav:2022:WDA


Lennon-Bertrand:2022:GCI

Meven Lennon-Bertrand, Kenji Maillard, Nicolas Tabareau, and Éric Tanter. Gradualizing the calculus of inductive constructions. ACM Trans-


LeMetayer:1988:AA


Leeman:1986:FAU


Lee:2009:RFS


Leiss:1990:KME


Leuschel:2004:FIP


Liang:2014:RGB


Lueh:2000:FBR

Lycklama:1991:FCF

[Lycklama] Edward A. Lycklama and Vassos Hadzilacos. A first-come-
first-served mutual-exclusion algorithm with small communication
variables. *ACM Transactions on Programming Languages and Sys-
tems*, 13(4):558–576, October 1991. CODEN ATPSDT. ISSN 0164-0925
(print), 1558-4593 (electronic). URL http://www.acm.org/
pubs/toc/Abstracts/0164-0925/102415584593.html.

Lhotak:2008:RAB

[Lhotak] Ondrej Lhotak and Laurie Hendren. Relations as an ab-
straction for BDD-based program analysis. *ACM Transactions on Pro-
gramming Languages and Systems*, 30(4):19:1–19:63, July 2008. CO-
DEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Liu:2019:RIP

[Liu] Bozhen Liu, Jeff Huang, and Lawrence Rauchwerger. Re-
thinking incremental and parallel pointer analysis. *ACM Transac-
tions on Programming Languages and Systems*, 41(1):6:1–6:??, March
2019. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Lindstrom:1979:BGC

[Lindstrom] Gary Lindstrom. Backtracking in a generalized control set-
ting. *ACM Transactions on Programming Languages and Sys-
tems*, 1(1):8–26, July 1979. CODEN ATPSDT. ISSN 0164-0925
(print), 1558-4593 (electronic).

Lin:1993:PIA

[Huin Lin] Huimin Lin. Procedural implementation of algebraic spec-
ification. *ACM Transactions on Programming Languages and Sys-
(print), 1558-4593 (electronic). URL http://www.acm.org/
pubs/toc/Abstracts/0164-0925/115370.html.

Liu:1999:SVF

[Zhimin Liu and Mathai Joseph] Zhiming Liu and Mathai Joseph. Speci-
ification and verification of fault-tolerance, timing, and scheduling.
*ACM Transactions on Programming Languages and Systems*, 21(1):46–
89, January 1999. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593
(electronic). URL http://www.acm.org/
pubs/citations/journals/toplas/1999-21-1/p46-liu/.

Lee:2002:ADC

[Peizong Lee and Zvi Meir Kedem] Peizong Lee and Zvi Meir Kedem. Automatic data and com-
putation decomposition on distributed memory parallel comput-
ers. *ACM Transactions on Programming Languages and Sys-
(print), 1558-4593 (electronic).
REFERENCES


REFERENCES


Barbara Liskov and Robert Scheiffer. Guardians and actions: Linguistic support for robust, distributed programs. *ACM Transactions on Programming Languages and Systems*, 5
REFERENCES


Lamport:1984:HLC


Lang:1998:SAE


Levi:2003:MSA


Li:2004:ATI


Liquori:2008:FME


Liu:2009:DRE


Liu:2005:OAA


Lamport:1982:BGP

They proved that Byzantine agreement (the subject of Section ??) cannot be reached unless fewer than one-third of the processes are faulty. This result assumes that authentication, i.e., the encrypting of messages to make them unforgeable, is not used. With unforgeable messages, they show that the problem is solvable for any $n \geq t > 0$, where $n$ is the total number of processes and $t$ is the number of faulty processes.

Liu:1998:SCI

Lengauer:1979:FAF

Li:2020:PAS

LeCharlier:1994:EEG
Lobo-Vesga:2021:PLD


Lipton:1983:VLP


Leivent:1993:MFT


Liskov:1994:BNS


Liu:2021:ICU


Lee:1998:PAF


Li:2022:FGS

[LZR22] Yuanbo Li, Qirun Zhang, and Thomas Reps. Fast graph simplification for interleaved-Dyck reachability. *ACM Trans-

Mallgren:1982:FSG


Merlin:1983:CSS


Morris:1999:SF


Millstein:2004:MTH


Morris:2009:TTN


Misra:1982:DGA


Misra:1982:TDD

REFERENCES


Millstein:2009:EMP


Moriconi:1986:PSP


Mirani:2004:FCM


Merro:2006:BBS


Milne:1985:CRC


Minsky:1984:SLC


Miquey:2019:CSC

Étienne Miquey. A classical sequent calculus with dependent types. *ACM Transactions on Programming Languages and Systems*, 41(2):8:1–8:??, June 2019. CODEN ATPSDT. ISSN 0164-0925
REFERENCES


REFERENCES

Myers:1989:RRA


Markstrum:2010:JDP


Morzenti:1992:MPR


Moreira:2000:FMJ


Marathe:2007:MMT


Masticola:1995:LFM


Morgan:1996:PPT

Mohan:1981:TCF


Moitra:1983:TCA


Monniaux:2008:PVF


Morgan:1988:SS


Muller-Olm:2007:AMA


Murer:1996:IAS

Mitchell:1988:ATE


Moore:2002:AC


McKinley:2007:ECG


McKinley:2010:DVT


Menon:2003:FSA


Moreau:2005:RAP


Morgan:1988:RC


Joseph M. Morris and Malcolm Tyrrell. Dually nondeterminis-


REFERENCES

Mueller:1987:RMS

Maassen:2001:EJR

Manna:1980:DAP

Manna:1984:SCP

Mulkers:1994:LSD

Morrisett:1999:SFT

Melicher:2022:BAE
Darya Melicher, Anlun Xu, Valerie Zhao, Alex Potanin, and Jonathan Aldrich. Bounded abstract effects. *ACM Transactions on Programming Languages and Systems*, 44(1):
REFERENCES


McKenzie:1995:ERS


Myers:1990:CUI


Myers:2017:F


Myers:2018:EFS

Andrew Myers. Editor’s foreword to “Static Backward Slicing of Non-Deterministic Programs and Systems”. ACM Transactions on Programming Languages and Systems, 40(3):11:1–11:??, August 2018. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic). See [DL18].

Myers:2019:E


Narlikar:1999:SES


Nanevski:2013:DTT

Aleksandar Nanevski, Anindya Banerjee, and Deepak Garg. Dependent type theory for verification of information flow and access control policies. ACM Transactions on Programming...
Necula:2005:CTS


Narayanan:2020:SDV


Norris:2016:PAM


Nelson:1989:GDC


Nicolson:1989:DSP


Nguyen:2005:EEA


Nielson:1985:PTD

REFERENCES


REFERENCES

Nandivada:2013:TFO

Olderog:1988:FPP

Odersky:1993:DCD

Olmedo:2018:CPP

Oh:2014:GSA

Ohori:1995:PRC

Ohori:2007:PTM


Pingali:1986:CFI


Pingali:1986:EDD


Padovani:2019:CFS


Palsberg:1995:CAC


Palsberg:1998:EBF


Palsberg:2011:E


Palsberg:2011:EN


Palsberg:2012:E

REFERENCES

Palsberg:2013:E


Palsberg:2015:E


Parnas:1990:TCI


Patrignani:2015:SCP


Paulson:2001:MTP


Papadimitriou:1980:PBH


Pingali:1997:OCD


Paz:2007:EFC

REFERENCES


Perry:1990:GEI


Peterson:1982:UAC

Gary L. Peterson. An $O(n \log n)$ unidirectional algorithm for the circular extrema problem. *ACM Transactions on Programming Languages and Systems*, 4(4):758–762, October 1982. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic). Peterson presents a deterministic distributed algorithm for finding the largest of a set of $n$ uniquely numbered processes in a ring. The algorithm requires $O(n \log n)$ messages in the worst case, and is unidirectional. The number of processes is not initially known.

Peterson:1983:CRW


Peterson:1983:NSL


Proebsting:1996:DDR


Pratikakis:2011:LPS


Patrignani:2021:RSC

Marco Patrignani and Deepak Garg. Robustly safe compilation, an efficient form of secure compilation. *ACM Trans-

Poletto:1999:CTL


Paek:2002:EPA


Pippenger:1997:PVI


Piquer:1996:IDG


Pai:1980:GCR


Paige:1982:FDC

REFERENCES


[PPS79] N. S. Prywes, Amir Pnueli, and S. Shastry. Use of a nonprocedural specification language and...

**Park:2008:PLB**


**Podelski:2007:TPA**


**Palsberg:1996:CTT**


**Pollock:1992:IGR**


**Palem:1993:STC**


**Palsberg:1996:CTT**

REFERENCES


Pugh:1994:SAU


Pugh:1998:CBA


Palsberg:2005:ADC


Qian:1995:CR


Qian:2000:SFI

References

Quong:1991:LPI

Quillere:2000:OMU

Ranganath:2007:NFC


Ramalingam:1994:UA

Ramalingam:1999:ILA

Ramalingam:2000:CSS

Rao:1994:RAP
Josyula R. Rao. Reasoning about probabilistic paral-
REFERENCES

161


REFERENCES


REFERENCES


Ramsey:1997:SRM


Rhiger:2003:FEL


Richter:1985:NSE


REFERENCES


[Rota03] Radu Rugina and Martin C. Rinard. Pointer analysis for structured parallel programs. *ACM Transactions on Programming Languages and Systems*, 25(1):
REFERENCES


Rugina:2005:SBA


Rosa:2019:AOT


Rinetzky:2008:CPF


Ramanath:1984:JML


Reif:1984:RTS


Raja:1997:CFC


Reps:2010:FDL

[RS10] Thomas Reps, Mooly Sagiv, and
REFERENCES


[Sag86] Thomas J. Sager. A short proof of a conjecture of DeRemer and Pennello. *ACM Transactions...
REFERENCES


REFERENCES


Schwartz:1980:U


Schneider:1982:SDP


Schmidt:1985:DGV


Sampaio:2013:DA


Strickland:2013:CFC

REFERENCES

CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).


[Steenkiste89] Peter A. Steenkiste and John L. Hennessy. A simple interprocedural register allocation algorithm and its effective-


[Sit79] Richard L. Sites. The compilation of loop induction expressions. *ACM Transactions on Programming Languages and Systems*, 1(1):50–57, July 1979. CODEN ATPSDT. ISSN 0164-
REFERENCES

Spoto:2003:CAA

Scott:2006:RNG

Smans:2012:IDF

Sangiorgi:2011:EBH

Skudlarek:1995:NMI

Shankar:1992:SRH
REFERENCES


[Sok87] Stefan Sokolowski. Soundness
REFERENCES


REFERENCES


REFERENCES

Schlichting:1984:UMP


Sasha:1988:ECE


Skeppstedt:1996:UDA


Sagonas:1998:AMT


Schulte:2005:WDB


Stuckey:2005:TO


Schulte:2008:ECP

REFERENCES


Jon Sneyers, Tom Schrijvers, and Bart Demoen. The computational power and complexity of constraint handling rules. ACM Transactions on Programming Languages and Systems, 31(2):8:1–8:42, February 2009. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).


REFERENCES

Steimann:2018:CBR

Steimann:2022:CPS

Stone:2004:EOL

Saha:2003:IAQ

Shao:2005:TSC

Smith:1996:PTV

Sangiorgi:2019:EBP

Simpson:2020:BEM
Alex Simpson and Niels Voornieveld. Behavioural equiva-

**Sabry:1997:RCV**


**Steckler:1997:LCC**


**Sewell:2010:NPP**


**Suganuma:2005:DED**


**Suganuma:2006:RBC**


**Soo:2007:GDW**

REFERENCES


[TB95] Yih-Kuen Tsay and Rajive L. Bagrodia. Deducing fairness properties in UNITY logic — a new completeness result. *ACM Transactions on Programming Languages and Systems*, 17(1):
Tofte:1998:RIA
Mads Tofte and Lars Birkedal.
A region inference algorithm.

Tip:2011:RUT
Frank Tip, Robert M. Fuhrer, Adam Kieżun, Michael D. Ernst, Ittai Balaban, and Bjorn De Sutter. Refactoring using type constraints.

Toro:2018:TDG
Matías Toro, Ronald Garcia, and Éric Tanter. Type-driven gradual security with references.

Toro:2020:CTD
Matías Toro, Ronald Garcia, and Éric Tanter. Corrigendum
REFERENCES

181


Thorup:1994:CGA


Tichy:1986:SR


Tichy:1988:TCT

[TLHL11]


Tel:1993:DDT

Gerard Tel and Friedmann Mattern. The derivation of distributed termination detection algorithms from garbage collection schemes. ACM Transactions on Programming Lan-
Thakur:2019:PFP

Takisaka:2021:RRS

Thammanur:2004:FME

Tratt:2008:DSL

Torp-Smith:2008:LRA

Tip:2002:PET

Tang:2000:PTR
Hong Tang, Kai Shen, and Tao Yang. Program transformation and runtime support for threaded MPI execution on shared-memory machines.

TSL⁺02
REFERENCES


Turini:1984:MLO


Turchin:1986:CS


Thies:2007:STU


Thatcher:1982:DTS


Toninho:2018:ISB


Toninho:2021:PSF

Bernardo Toninho and Nobuko Yoshida. On polymorphic sessions and functions: a tale of two (fully abstract) encodings. ACM Transactions on Programming Languages and Systems, 43
REFERENCES


VanderZanden:1996:IAS


Vansummeren:2006:TIU


Vera:2004:FAF


Venkatesh:1995:ERD


VanRoy:1997:MOD


vonHanxleden:2000:BCP

VanDenBrand:2002:CLD


VanderZanden:2001:LLA


Verdoolaege:2012:ECS


Vasconcelos:2022:TDM


Volpano:1991:TCS


vandenBos:1981:PCB


VanHentenryck:1995:BTC

REFERENCES


Peter J. L. Wallis. External representations of objects of user-defined type. ACM Transactions on Programming Languages and Systems, 2(2):137–152, April 1980. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic). See also corrigendum [Wal81].


David W. Wall. Experience with a software-defined machine architecture. ACM Transactions on Programming Languages and Systems, 14(3):
REFERENCES

Wand:1982:DTC


Waters:1983:UFC


Waters:1991:ATS


Waters:1994:CBP


Wright:1997:PST


Walker:2000:TMM


Wileden:1990:CEO

REFERENCES


REFERENCES

Widom:1992:TBN


Widom:1993:CTB


Williams:1982:DAF


Williams:1982:FNS


Winner:1984:UO


Wing:1987:WLI

REFERENCES


Wirth:1988:TE


Wirth:1991:TCR


Wise:1979:MGC


Wright:1998:PSE


Wellings:2000:IOO


Wand:2004:SAD

Mitchell Wand, Gregor Kiczales, and Christopher Dutton. A semantics for advice and dynamic join points in aspect-oriented programming. *ACM Transactions on Programming Languages and Systems*, 26(5):


REFERENCES


Wu:1995:WCC


Wegman:1991:CPC


Ward:2007:SPT


Xie:2007:SSF


Xie:2020:CSA


Yemini:1985:MVE


Yemini:1987:ATE

REFERENCES

24052.html. See remarks [YB88].

**Yemini:1988:TCA**


**Yiapanis:2016:CDS**


**Yang:1998:STE**


**Yardimci:2009:MSP**


**Ying:2011:FHL**


**Yu:1997:NCI**


**Yang:1997:SMC**


Yang:2002:EEB


Yang:2022:DDZ


Zave:1985:DAF


Zic:1994:TCB


Zhang:2005:CPT


Zhou:1996:PPC

REFERENCES

Zhang:2017:SSH


Zhong:2009:PLA


Zhang:2021:CP


Zhao:2020:DLS


Zhou:2022:RIR