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

Preston Briggs
Tera Computer Company
2815 Eastlake East
Seattle, WA 98102
USA
Tel: +1 206 325-0800
E-mail: preston@tera.com

and

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA
Tel: +1 801 581 5254
FAX: +1 801 581 4148
E-mail: beebe@math.utah.edu, beebe@acm.org,
beebe@computer.org (Internet)
WWW URL: http://www.math.utah.edu/~beebe/

14 October 2017
Version 2.128

Title word cross-reference

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

[SRW02], + [Han81a], $T^M$ [Bla03], $5ex$
[AW82], [DDDCG02], $A$ [DES12], $R$
[JMSY92], $R_{Lin}$ [VR95]. $\ell$ [ADG94],
$O(nn)$ [Pet82]. $\phi$ [CF95, DR05]. $\pi$ [ABL03].
-calculus [ABL03]. -Exclusion [ADG+94].
-function [DR05]. -Nodes [CF95]. -Tree [Han81a]. -valued [SRW02].

11 [ND16].

256 [App15].

568 [Han81b].

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

Abstract [BGL93, BK11, CMB+95, CFG+97, DGG97, DLR16, ELS+14, EO80, GS98, HL82, JPP91, Lant80, LO94, LV94, LR13, Loe87, MJD94, MP88, SS98, She91, Wei89, van88, ABS09, BDL+08, BdIBH99, Leut04, RM07, SYHY07, SJ03].

Abstraction [CGL94, CL94, Der85, GMH81, SM81, BMR05, BBTS07, GMZ00, LN02, LH08, MOSS96, PR98, HL82, JPP91, Lan80, LO94, LV94, Lt97, LH91, MM82, MC82a, Pet82, SH99, TB98, Wis99, BKRW98, BHH99, DR05, DVD07, JNZ06, Van96a, Van96b, Han81b, BKRW05].

Algorithmic [BP82, GM12, LOe87].

Algorithms [Apt86, BA84, CS95, CN83, GLO88, KRS84, KKM90, Krok82, Kro84, Kro85, Kro86, Kro87, Kro89, Krok09, Kro91, Kro92, MM89, RD87, RH97, RF88, TM93, WW95, Apt00, DAS98, GC01, ZGZ05].

Alias [Hor97, HBC99, RRSY98]. Aliasing [Boe85, Ram94, RLS+01]. All-Purpose [Spo86]. Allocating [ZP07]. Allocation [BB79, Bre89, BCT94, CH90, CS95, FLBB89, GSO94, Rob79, SH99, CG5+03, HCS10, LGAT00, PS99, PF96, RDG08, SRM10, TP04]. Alma [ABPS98]. Alma-O [ABPS98]. almost [Due08, Ram99].

Alternative [Gho93, GH80, Zav85]. Alway [Gri79]. ambients [BCC04, LS03, MH06].

Ambiguity [Tho94]. amortized [HAH12].

Amulet [VHM+01]. Analyses [AC94, CC95, CFM94, KSV96, SJ03].

Analysis [AKNP17, ABE+05, AD98, Bae84, BC85b, Bio94, BE13, Bur90a, CMM91, DL93, Deb95, DP97, DAW88, FJK+17, GNS+15, GJ93, HP96, Hil88, Hor97, ISY88, Jen97, KD94, LKL+17, LR13, McG82, MBB94, MOS07b, OHL+14, OLI+16, Pah95, PO95, PCC85, PP91, PW94, PW98, Pur91, RD83, RTP17, RP88, SR95, SSS83, SGL98, SS13, ABB+09, BDFZ09, BAL07, Bla03, Blu99, BCG+07, CSW06, Chol92, CGS+03, CKT86, DDV99, DGS97, FF99, GHB+96, GJ05, GZ04, GCRN11, HAM+05, PM00, HBC99,
analyze [DMM01, VBLG04]. analyzer [SMP10]. Analyzing [AW85, BEF16, CFP04, GMM99].

And/Or [Har80]. Annotations [Bur84]. AOP [DES12]. APL [Bud84, GD82, Hob84].

Applicability [DAW88, How80, LS98]. Applicable [Gom92]. Application [CD79, DF80, DF81, LBN17, LR13]. Applications [BLRS12, Bou88, BALP06, CMLC06, NR06]. Applicative [AC94, KS86]. apprentice [MP02]. Approach [AKNP17, ABR81, AR80, BAC16, BP82, Bur90a, CH90, CD79, DS90, Ell82, ES97, FT94, GGL15, Har80, Hes88, KKW14, Lam79, Lam80, Lee86, MW80, MDCB91, ND16, OA88, Sam80, Sp86, SM81, SNS14, Boul05, CRN18, DHM02, FGM07a, JLRS10, KV00, LP80, MBT09, PSS05, PCJD08, RC03, SP07, WS97].


Architectures [Han94, KPF95, NSTD15, PAS15]. Arising [Bae84]. Arithmetical [Fis80, GNS15, Hen83, LdR81, MOS07b]. ARM [FKW98]. Array [CGST95, CG95, LS79, Per79, PW98, JB06, LSR05, NI05, PHP02, RH06, RR05, ZCG07]. array-valued [RM06]. Arrays [BC16].

ASF [VHKO02]. aspect [DWWW08, WKO04]. aspect-oriented [DWWW08, WKO04]. AspectML [DWWW08]. Aspects [Bor81, Set83].

assembly [AAR10, MWC99]. Assertions [BK80]. Assessing [BDH16, Wey83]. Assignment [BM94, CFR91, GL80, GFP08, LDK96].

Assisted [HCHP92]. Assisting [Fea82]. Associated [PPS79]. associativity [Cha02].

Assocs [Rem81]. assume [HQQRT02]. assume-guarantee [HQQRT02]. Assumptions [ES97]. AST [GVC15]. Asynchronous [Bag89, GLO88, Mis86, GM12, HR02]. ATL [WSH15]. Atomic [WL85, Wei90, AE01].

Atomicity [JLP+14, Wei89, FFLQ08]. Attribute [CP95, Hud91, JP81, Jon90, Kat84, KR79, MK94, RD87, WW95, Boy96, CP96, Wu04]. Attributes [HT86]. Author [Ano86a, Ano88a, Ano89a, Ano90a, Ano91a, Ano92a, Ano94, Ano95, Ano98, Bur91].

authorization [FGM07b]. Authors [Ano82, Ano83, Ano84, Ano85, Ano86b, Ano87, Ano88b, Ano89b, Ano90b, Ano91b, Ano92b]. auto [ZP10]. auto-addressing [ZP10].

Automata [BMW91, ES97, Pro95, KV00]. Automata-Theoretic [ES97, KV00].

Automated [GRSK11, KZC15, KFO00, Sok87, JNGG10].

Automatic [AKNP17, AK87, Ano02a, BBC16, Cat80, CES86, DS90, KK98, Le88, LK02, LS04, MS83, PZJ05, RH87, SSS81, SL03, She91, Wat91, Wha91]. ATD08, BdlBH99, CRN08, ZCG07].

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

aware [MQ05]. Axiomatic [AR80, App94a, Boe85, Sou84, YBS7, YBS8, LP80]. Axioms [Mis86].

B [Han81a]. backpropagator [PS08].

Backtracking [Lin79, VR95, FM87a]. Balanced [AS80, PB80, vHK00].

Based [LS98]. Based [BPP16, BGL93, Bur90a, CG97a, CI84, CP95, CH90, CPS93, DLM15, DLR16, EGP14, GG85, HT86, JTM98, Kai89, KR79, LFF14, PW98, RDT83, SR95, SGL98, SNS+14, Wat94, WGS92, vPS81, BFG08, BMR01, BHM+07, BCG+07, CTT07, DDV99,
Eug07, FF99, HBJ98, KBC∗99, KK07, KC01, LP00, LH08, LGAT00, MTSS09, MH06, Pal98, PPT08, PCJD08, SP97, SP07, SMP10, SYN06, BDP14, WGS93, WM12).

**Basic** [GLR83]. **BDD** [LH08]. **BDD-based** [LH08]. Be
[Bee94, Coh91, Wir91, CG04, LP99].

**Behavioral** [LN15, LW94]. **Being** [Cop94].

**Behavioral** [LN15, LW94]. **Being** [Cop94].

**Calculus** [ABLP93, BKL∗97, BN94, CGL94, ES97, FF08, GL94, ND16, AY01, ACM11, BGP99, FFLQ08, HQRT02, JJD98, KF10, KV00, NI05, SG04, VJB12, YMW97].

**Calculus** [ABLP93, BKL∗97, BN94, CGL94, ES97, FF08, GL94, ND16, AY01, ACM11, BGP99, FFLQ08, HQRT02, JJD98, KF10, KV00, NI05, SG04, VJB12, YMW97].

**Calculational** [Bou06]. **calculi** [ABS09].

**Calculi** [ABS09].

**Calculation** [Bou06]. Calculi [ABS09].

**Calculus** [ABLP93, BKL∗97, BN94, CGL94, ES97, FF08, GL94, ND16, AY01, ACM11, BGP99, FFLQ08, HQRT02, JJD98, KF10, KV00, NI05, SG04, VJB12, YMW97].

**Call** [DP97, GL80, GC01, HL05, KK07, SW97b].

**Call** [DP97, GL80, GC01, HL05, KK07, SW97b].

**Called** [DP97, GL80, GC01, HL05, KK07, SW97b].

**Call-by-value** [HL05, SW97a]. **Calls** [Coh83, Coh85, FF08]. Can
[Boe85, Coh91, Wir91, CG04]. capabilities
[WCM00]. capability [TA08a]. Carlo
[FL15]. carrying [AM01]. Case
[FTJ95, WW95, BdlBH99, KF03]. Cats
[AMT14]. Cause [Cas95]. CCP [EGM01].

**Cells** [ISY88]. **Centered** [CHY12]. Centers
[KRS84]. Centralized [HM84].

**Cells** [ISY88]. **Centered** [CHY12]. Centers
[KRS84]. Centralized [HM84].

**Centers** [KRS84]. Centralized [HM84].

**Change** [KM06].

**Change** [KM06].

**Changes** [KM06].

**Change** [KM06].

**Changing** [MP07].

**Changing** [MP07].

**Changes** [KM06].

**Changes** [KM06].

**Checklist** [ABM93, FK85, KS86, LST98].
[KWL90]. Conference [Wol92]. confined
[GPV97]. Conflict [Cas95]. Conjecture
[KPS92, Sag86]. Conjoining [AL95].
conservative [Hai95]. considered [Gor04].
Constant [Coh91, WZ91, Wir91].

Constrained
[BG89a, DAW88, PS96, Žic94, LPP01].
Constraint [Bor81, DGMP97, DDV99,
NSTD + 15, Pa95, PW98, Apt00, BMR01,
DPR00, FH04, GHB + 96, HPMS00, SS08,
SS09, SP07, SSD09, dHB + 96].
Constraint-Based [PW98, 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].
Constructive [Loe87].
Constructs [AR84, DJP + 16, Par90]. Context [GHR80,
Ode93, PK80, Ram00, RTD83, Rep00].
Context-Dependent [Ode93, RTD83].
Context-Free [GHR80].
Context-sensitive [Ram00, Rep00].

Contexts [Ode93]. Continuation
[BDM15, Wan82]. Continuation-Passing
[BDM15]. Continuations [BDM15, HF87].

Continuous [KF03]. contract [DF11].
Contracts [SIG17, SDTF13, CGP09].
Contravariance [Cas95]. Control
[ABLP93, Bur84, CL94, CFR + 91, DP97,
FM87b, Kat93, Lam88, Lin79, NBG13, PB97,
PBR + 15, Set83, SS13, Tur84, Wat83, Wei89,
BCM99, BCC04, HO07, PSS05, RAB + 07,
Zho96]. Controlled [Min84, Tho94, JCG97].
Controlling [BAL06, LaL81, LMD98].

Convention [AF84]. Convergence [Bar85].
Conversion [CS87, SW97b, SA00, YK97].
Cooperating [GLR83, NO79].
Cooperation [BKS88]. Coordinating
[JS94]. Coordination [GLR83]. copying
[TSCR08]. core [IPW01]. Coroutine
[Sam80]. Coroutines [LS81, DI09]. Correct
[DGMP97, Hen86, JP17, SS88, AAD + 07].
Correction [FA93]. Correctness
[Apt86, CM86b, FRW90, Gom92, HW90,
Lam79, Lam80, Oss83, San96]. correlated
[YS99]. Correspondence [BS88, Bur90b,
Bur91, Coh91, CM93, DS88, El82, FA93,
Fra81, Hen83, LaL83, LaL84, Moh81, Moi83,
MS88, NN86, Par90, Pem83, Sor89, SM82,
Tan83, Tic88, Vol91, WST85, Wir91, YB88].

Corrigenda [WCV91]. Corrigendum
[BKRW05, DF81, Fra80a, KS89, Lam80,
Per91, QG95, Van96a, Wal81, WGS93].
Cost [AB81, Bac84, DL93, Hai98, Han81a,
ZGZ05, VALG05]. Cost-optimal [Hai98].
costs [GMP + 00]. Counting [Bal94, LP06].
Counts [Bob80, Wis97]. Coupled [ACW90].
Covariance [Cas95]. covariant [PZJ05].
Creating [Mye90]. criteria [Hai95].
Critical [PS93]. Critique [GM81]. Cross
[FTJ95]. Cross-Interferences [FTJ95].
Cryptographic [App15]. CSP [AF84,
Bag89, BS83, Fid93, Hua90, LS84, Žic94].

CSP-Like [Hua90]. currency [DS98].
Custom [DJP + 16]. Cycle
[BG89b, PKB + 07]. Cycles [FRW90]. Cyclic
[RY88].

D. [Bur91]. Data
[AMT14, ANP89, AM85, Bac84, BC85b,
BL87, Bur90a, Cha93, CS87, Deb89, DP93,
DD85, El82, EO80, FL81, GMH81, GEGP17,
HL82, Her93, Hes88, Hoi87, Jen97, KH92,
Kam83, KZC15, KK98, KD94, LaL89, LO94,…]
D. [Bur91]. Data
[AMT14, ANP89, AM85, Bac84, BC85b,
BL87, Bur90a, Cha93, CS87, Deb89, DP93,
DD85, El82, EO80, FL81, GMH81, GEGP17,
HL82, Her93, Hes88, Hoi87, Jen97, KH92,
Kam83, KZC15, KK98, KD94, LaL89, LO94,
LN02, Loe87, Mal82, MMR95, MCT96, PP91,
QQ95, RCRH95, RP88, SSS81, Sku95, SGL98,
SM81, TWW82, WL85, Wei90,
Wet82, Wey83, CF + 04, DHM + 12, DGS07,
HB98, KBC + 99, KF00, LK02, Rep00, SP07,
VALG05, YUW02, ZGZ05, Pur91].
data-centric [DHM + 12]. Data-Driven
[BL87, CS87]. Data-Flow
[BC85b, Bur90a, Wet82, RP88, KBC + 99].
data-independence [Rep00].
div [Bou92]. Divergence [SdSCP13]. DJ [DR05, SGL96, SGL98, UM02]. DJ-graphs [UM02]. DLLs [Dug02]. do [SS05a]. Documentation [MH86]. does [DMP96]. dolce [MP10a]. Domain [Tra08, RM07, SS05a]. Domains [CMB+95, ELS+14, GS98, FH04, GLM05]. dominance [Ano02b, DVD07]. dominator [SGL97]. Dominators [LT79, Ano02b, BKRW98, BKRW05]. Don’t [AKNP17]. drf [MSM+16]. Drinking [CM84, MS88]. Drive [PK80]. Driven [BL87, CS87, GF85, GSW95, PA85, PA86a, PA86b, YBL16, DSG07, PF96, YMW97]. Dually [MT08]. Dummy [Lam88]. During [BKB80]. DyC [GMP+00]. Dynamic [ACPP91, AGT89, ASF17, BB79, BDM15, Bre89, CTT07, DS98, Dug99, HSS+14, HN05, Kair, KR79, RCRH95, Ven95, WR08, dBB85, ACE96, BP12, CEI+07, DDDCG02, GZ07, MMM+07, PHEK99, SJ12, SHB+07, SYK+05, SYN06, WKO4, ZGZ05].
eager [FKW00]. Early [Lei90]. Early [AB81]. ECCS [CDFP89]. Edge [DP93].
Editing [FL81, HT86, Nix85]. Editor [FM87b, DFP07, Per90, Rep86, Wol92].
Editorial [AP07, App93, AG93, AF94, MP07, Pal11a, Pal11b, Pal12, Pal13, Pal15, FP02, OP04].
Editors [DMM88, MM89, RTD83, Wat94].
EDO [OKN06]. effect [RLS+01]. Effective [BS83, Cid84, KKN06, Ni05, PE08, WJ98, YUW02]. Effectiveness [BdIB99, HS98].
Effects [Boe85, TA08b]. Efficient [AKBLN89, ADGM91, BGH+13, Bre89, Cam89, CS95, DP82, DMM88, GZ05, GZ07, GLR83, GLO88, GSO94, HVB+99, HSO4, HSS+14, HIT97, JP81, Jon90, KKM90, KRS88, KPF95, MVV+01, MM82, NB99, Ni05, PHP02, PXL95, PKH07, PA85, PA86b, RH87, SO88, SA00, SS88, W98, YUW02, BCP08, GB99, KSV96, LPS004, LS09, PKB+07, TP04, VWJB10, YF98, PA86a, SS09]. Efficiently [Bal94, CFR+91, CF95]. Eiffel [ACE96].
elaboration [KR01]. Election [Hua93].
Eliminating [BT93, Coh83, Coh85, RD03].
Elimination [DP93, SGL98, KKN06, KCL+99].
Elimination-Based [SGL98]. embedded [BCP08, CSMC00, HK07, Rhi03, SM10, TP04, ZP10]. Embedding [HF87].
Empirical [BHK07, BHD+16].
Empowering [JSB+12]. Emulator [ML80].
Enabled [ADG+94]. Encapsulating [GZ07].
Encoding [Hob84, GZ05, ZP07].
Encodings [BC79]. End [BDP14, CSMC00]. enforcement [HMS06].
Enforcing [CEI+07]. engines [SS08, SS09]. enhanced [GH97]. Entries [LaL84, SS82].
Enumeration [BB94, JJ12].
Environment [CO90, SZBH86, CKT86].
Equality-based [Pa98]. Equations [HO82, Bun06, GS11, GMM99].
Equiprobable [PB80]. Equivalence [VJB12, VSS94]. Equivalent [PO95, NP08].
Erratum [TCP+17]. Error [AB01, Bac84, BN99, BF87, FL15, KC01, LaL84, MF88, MYD95, PK80, Ric85, SSS83, SS82, Wet82, ZMVP17, dJKVS12, Jef03, XA07]. Errors [AW95, Wha94, CPRT02, JNGG10].
Escape [Bla03, CGS+03]. ESOP ‘05 [Sag07]. Essential [DSE12]. Esterel [Tar07].
Eta [DMP96]. Eta-expansion [DMP96]. Euclid [HW82].
Evaluating [BLH12]. Evaluation [AVF98, Bur84, CGST95, CK93, Gri82, Hud91, Jon90, LV94, PA85, PA86a, PA86b, RD87, RL98, Sl05, SG90, W90].
W91, ADR06, CP96, CG04, GJ05, LDM07, Leu04, ST00b, SYK+05].
Bac84, BC85b, Bur90a, DP97, DP93, 
FJKA06, Hor97, KD94, MMR95, NBG13, 
PO95, PP91, PBR*15, Pur91, Set83, SGL98, 
SS13, Wet82, DGS97, HR02, HY07, KBC*99, 
Pal98, PS03, RRSY08, RP88, TZ07, WJ98].

Flow-Inensitive [Hor97, FJKA06].

Flowback [CMN91]. Flowgraph [LT79].


Fly [CF95, BA84, LP06, PBK*07]. Folklore [LY98].

Font [FK85]. Foo [FA93].

Foreign [FF08]. Foreword [Mye17].

Form [AK87, BOV85, BM94, CFR*91, GSW95, 
Pal95, GPF08, KCL*99].

Formalisms [PCC85].

Formalization [BPP16].

Formally [SP97]. Format [Wat83].

Forms [DS83]. Formulas [RS97].

Foundation [Ban11, RAB*07, RH03]. foundational [AM01].

Foundations [GTWA14, LW93, AAR*10]. Fractal [MPM03]. fractional [Boy10]. frames [SJ12].

Framework [BGL93, Gie83, JW17, NSZS13, NSTD*15, 
OHL*14, SGL98, ATD08, DGS97, GMM99, 
GZ04, GC01, Len04, PS08, RKRR04, TP04, 
VBLG04, XA07, ZCG*07, ZP10, vHK00].

Frameworks [MMR95, KK07].

Francez [Fra81, Moh81, Moi83]. Free [AP94, GEGP17, GHR80, Her91, Kar84, 
Kob98, JJD98, KS96]. freedom [KS10].

frontiers [An02b]. full [GB99]. Fully [JPP91]. function [DR05, FF08].

Functional [AFV98, Ban87, Blo94, Bou05, 
Bur84, DW89, FL91, ISY88, JPP91, WM95, 
Web95, Wil82a, ABH06, Bou06, DWWW08, 
DF98, PS08, San96, SP97]. Functions [AKP94, AKS82, Bou92, PB80, SM89, Lee09, 
MBC04, MB99, MT08, PPT08]. Further [CM93].

Fusion [LGAT00]. Fusion-based [LGAT00].

G. [Tie88]. Garbage [BA84, CN83, DSW82, 
ISY88, TM93, WLBF16, Wis79, BBYG*05, 
BALP06, HDH02, LP06, Piq96, TSBR08].

Garnet [VHM*01]. General [BGL93, HSS*14].

General-Purpose [HSS*14]. Generalization [NCi89, LMD98].

Generalized [Ans87, BS83, KD94, Lin79].

Generalizing [DB85]. Generals [LSP82].

Generate [Son87]. Generated [Slo95, dJKVS12]. Generating [HBM*06, HT86, Jef03, LR13, JNZ06].

Generation [AGT89, AS80, BOV85, BM94, 
DS83, DS90, GF85, GVC15, HKR92, 
HKR94, Pro95, Rei83, Rob97, She91, ST00b, 
UJ92, DAS98, MR00, PHEK99].

Generative [Gel85]. Generator [PPS79].

Generators [Cat80, GHK81].

Generic [LV94, DDM11]. generics [IV06].

Geometry [CR87]. Georgeff [NN86].

GJ [IPW01]. Glanville [MSRR00].

Global [Bac84, Dha91, GHB*96, OHL*14, PK80, 
PS92, Sch85, dHB*96, CS04, KBC*99, 
DS88, Sor89].

GLR [SJ06]. Goal [Dar90, Gud92, SYYH07].

Goal-Directed [Gud92, SYYH07]. Goal-Oriented [Dar90].

Goto [CF94]. GPU [BCD*15].

Graham [MSRR00].

Graham-Glanville [MSRR00].

Grained [PBR*15, DNS*06]. Grammar [CS14, CP95, GF85, JP81, KR79, Web05].

Grammar-Based [CS14]. Grammars [BB94, MK94].

Grammatic [Tho94]. Grammars [BB94, MK94]. Graph [Ass00, Bee94, 
BCT94, CFR*91, FOW87, KKS94, KLS92, 
MC82a, Son87, CTT07, GC01].

graph-based [CTT07]. Graphic [Mia82].

graphical [VHM*01]. Graphs [HRB90, KPS92, Kna90, SGL98, DR05, 
JC97, KSK07, SGL96, UM02]. grid [VWJB10]. groundness [CSS09].

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, Piq96, 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], hierarchical [AG04], Hierarchical [BA99, CP95, CD79, YS10], hierarchically [MB04], hierarchies [ST00a, Van96a, Van96b], hierarchy [KF00], High [Cam89, Fat82, CMS+16, CMS03, VWJB10], High-Level [Cam89, Fat82, CMS03, VWJB10], Higher [AC94, AD98, CJK95, DJP+16, BBTS07, DF11, SKS11, SP97], Higher-Order [AC94, AD98, CJK95, DJP+16, BBTS07, DF11, SKS11, SP97], Highly [Her93, Sku95], Hoare [Apt81, GM81, LS84, Sok87, Yin11], Hoc [MDCB91], Holistic [ZMVPJ17], Homomorphisms [HIT97], HOP [BLRS12], Hybrid [KF10, KS10], hyperdoctrines [BBTS07].

I-Structures [ANP89], I/O [Car95], Icon [GKH81, Gri82], id [Bee94], idempotency [KO8+06], Identical [FLBB89], Identification [BGH+13], identify [MMP+07], Identifying [Ram99, SGL96], Idioms [PP94], IDL [Lam87], IEEE [Fat82], Ignorance [GNS+15], Illustrative [Oss83], Impact [OLH+16, CTK86], Imperative [ABPS98, DFR15, Gro06], Implementation [AKBLN89, AOC+88], BCD+15, Bou88, Bre89, BS83, CM86b, GMH81, Gaz83, 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, CMB+95, MCT96, TCP+17, WS97], impure [Pip97], incomplete [GLMM05], Incremental [Bur90a, CP95, DMM88, GM79, HKR92, HKR94, HPMS00, H901, Kai89, Lar95, LST98, PS92, RTD83, RP88, SGL97, WG98, YS91, BBY9+05, CP96, Van96a, Van96b], Incrementally [QL91], Independence [DHM00, Rep00], Independent [ML80, Mul92], Index [Ano86a, Ano88a, Ano89a, Ano90a, Ano91a, Ano92a, Ano94, Ano95, Ano98], indexed [AM01], indices [RR05], Indirect [Piq96, CEG07, YK97], Induction [GS95, Sit97], inefficiencies [MMP+07], Inessential [SS82, LA84], Inference [CEW14, Deb89, Han93, LO94, LY98, TB98, Wey83, FFLQ08, JB06, PM06, PT00, PS03, Van06], Influence [FT95], Information [AR80, Ano82, Ano83, Ano84, Ano85, Ano86b, Ano87, Ano88b, Ano90b, Ano91b, Ano92b, AS17, BC85b, HR02, NBG13, PB+15, PS93, GS99, HY07, LN02, OYR09, TZ07], Information-Flow [BC85b, TZ07], infrastructure [SWU10], Inheritance [LN15, WT11], initialization [FM99], Input [BS83, vPS81], Input-Output [BS83], Inputs [PA86a], Insensitive [Hor97, FJKA06], Insertion [AKNP17, GJ05], inspection [CF04, FG03].
Instantiation [Der85]. Instead [Lam84, Rem81]. Instruction [KPF95].

Instructions


Jade [RL98]. Jam [ALZ03]. Java [AFF06, ALZ03, AAD+07, BH05a, Bla03, BALP06, CGS+03, CMS03, CSM00, FFLQ08, FM99, GFPO8, IPW01, KKN06, KGMO04, KN06, KR01, LST02, LP06, LS08, Loc13, MVV+01, MME+10, MFRW09, MGG00, NR06, OKNN06, Qia00, SLC03, SMP10, SA99, SYK+05, TSL+02, WR08]. Java-like [KN06]. JavaCOP [MME+10]. JavaGl [WT11]. join [WKD04]. JR [KGMO04]. Jump [LS80, RS84a]. Just [DL16, SYK+05]. Just-in-Time [DL16, SYK+05]. JVM [HO07].


labels [Sto04]. Laboratory [Bor81]. LaLonde [Hen83, LAL83]. LALR [DP82, KM81, PCC85]. Lambda [Geo84, Gom92, NN86, PS08]. Laminar [PBR+15]. Lamport [Ang89, Pet83b]. Language [ACPP91, AOC+88, ABPS98, BS86, BPP16, BO94, Bor81, BC91, DVL05, Fat82, Fea87, Gud92, Hal85, HSG17, JMSY92, JPP91, Kai89, McG82, Per79, PPS79, RTD83, RCS93, Spo86, SNS+14, Tur84, Wet82, Win87, YS91, YB87, dJKVS12, van88, Bou05, BSvGF03, CFP+04, DWWW08, DF98, FM99, Gro06, HB08, KN06, LP99, MF09, MWCG99, PPT08, PHEK99, Tra08, VHKO02, HCW82, YB88].

Language-Based [Kai89, RTD83].

[ABM93, FKW00, HKR94, Hud91, TCVB14, Chi05], LCF [Sok87], lead [SS05a], Leader [Hua93, KKM90], leak [HDH02], learned [VHM+01], Learning [CGJ+97a], Least [AB81, Bac84], Least-Cost [AB81, Bac84], Left [FKW98], Left-Linear [FKW98], legacy [NCH+05], length [SMP10], Lessons [VHM+01], Let [LY98], Let-Polymorphic [LY98], Level [Cam89, Fat82, GP95, YBL16, CMS03, VWJB10], Lexical [HKR92], libraries [Dug02], LIFE [AKP94], lifetime [HBM+06], Lightweight [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, We90, FGM+07], Link [LY98], Link-time [DDD05], Linking [QL91, Dug02], LIPS [CDFP89], LISP [GCRN11], LISP [Mul92, Pip97, SH89, Wat83], List [BC79, HIT97, Kau84, SJ89], listing [MDJ05], Literature [Oss83], Live [MWB94], Live-Structure [MWB94], Liveness [ACW90, GC86, OL82, RY88, HDH02], LL [BF87], Load [KPF95], Loaded [BG80a], Local [BDFZ09, CBDGF95, PT00, TSB08, Wei94, Dam03, San96], Locality [BAC16, MCT96, VALG05, ZSD09], Locally [AB81, Bac84, Min84], locating [JNGG10], Locator [ZMVPJ17], Lock [GEGP17, KS10], Lock-Free [GEGP17], lock-freedom [KS10], locking [AFF06], LOCKSMITH [PFH11], Logic [AS89, AFV98, Apt81, BGL93, BL87, BCD90, BD13, BMPT94, CS04, CES86, CFM94, DW99, Deb89, DL93, Deb85, DJP+16, JPP91, Kar84, LS84, Lam94, MW84, MSJ94, MMG92, SS98, Sok87, TK94, TB95, BBTS07, BMR01, BCG+07, BdIBH99, CU08, CG86, CSS99, DDV99, DPFR00, GBH+06, GW99, HVG+99, HPMS00, KWL09, LMD98, Leu04, PM06, RKR04, SRV02, Yin11, dHB+96], Logical [GGL15, GS98, RSL10, Tar07], Look [DP82], Look-Ahead [DP82], Lookahead [KM81, MF88], Loop [BAC16, CS87, MT96, St79, RKRS12], Loops [BAGM12, Boo82, CK94, DB85, FTJ95, Hav97, Wat91, Ano02b, LS04, LSLR05, Ram99, RDG08, SGL96, UM02], low [CSMC00], low-end [CSMC00], Lower [PW94], LR [ADGM91, BL94b, BF87, CPRT02, DMM88, Jef03, JP17, KC01, LaL81, LaL84, SS82, ST00b], LR-based [KC01], M [Bur91, Mul92], M-LISP [Mul92], Machine [CGJ+97a, Cat80, GNS+15, Gie83, Han94, LR13, ML80, RF97, SS98, Wal92, Zav85, Ano02a, CEG07, CF04, HK07, KN06, Oho07], machine-checked [KN06], Machine-Code [LR13], Machine-Independent [ML80], Machine-Specific [Gie83], machinery [FKW00], Machines [ACW90, Bee94, CGST95, GC86, KK98, PS93, PP91, Rob59, CRHR95, AY01, AG04, ABE+05, ABS09, TSY00, Pur91], Madsen [Ell82, SM82], Magma2 [Tur84], Maintenance [GKL94], Making [JC97, Loc13], malware [PCJD08], Management [JP81, Mur91, van88, BP12, WCM00, Zho96], Managing [Bob80], Manifest [SIG17], manipulating [YS10], Manipulation [DVLM15], many [AE08], massive [BHK07], Massively [CGST95], Matching [AC96, AGT89, CP95, KPS92, ADR06, Van06], Matching-Based [CP95], materializations [RMH06], Mathematical [Ban11, Hes88, LW93], MATLAB [DP99], MATLAB(R) [JB06], Matrix [FTJ95], Matrix-Vector [FTJ95], Maximal
Newtonian [RTP17], Nicholson [FA93], node [JC97, UM02]. Nodes
[CF95, Han81a]. Nomadic [SWU10]. Nominal [CU08]. Non [LLK+17, BS88]. non-
[BS88]. Non-Statistical [LLK+17]. Noncanonical [Tai79]. Noncorrecting
[Ric85]. Nondeterminate [TK94]. Nondeterminism [Ber80, Hes88, WM95]. Nondeterministic
[QG95, MT08]. Noninterfering [HPR89]. nonnumerical
[ME97]. Nonprocedural [PPS79]. nonrectangular [JLF02]. nonscalars
[CRN+08]. Nonsequentiality [Bar81]. Nonstrict
[ME97]. Nondeterministic [QG95, MT08]. Noninterfering [HPR89]. nonnumerical
[ME97]. Nonprocedural [PPS79]. nonrectangular [JLF02]. nonscalars
[CRN+08]. Nonsequentiality [Bar81]. Nonstrict
[ME97]. Nondeterministic

O [ABPS98, Car95]. Object
[DF84, HU96, KH92, Ryu16, WCW90, WCW91, BSvGF03, DMM01, DDDCG02, FM99, GPWZ08, HBM+06, JPS+08, LPS004, Pjg96, WJS+00]. Object-Based
[KH92]. Object-Oriented [HU96, Ryu16, BSvGF03, DMM01, JPS+08, WJS+00]. Objects
[AM85, CJ95, HF87, HW90, Her93, SM89, VH+97, Wal80, Wal81, Win84, GPV07, HB939, KF00, Sto04, WJS+00, Sku95]. obligations [DSW11]. Observability
[Gaz83]. Observations [Sha82]. Occur
[AP94]. Occur-Check-Free [AP94]. Offline
[CG04, GJ05]. Old [AL94]. Old-Fashioned [AL94], On-Line [Bal94]. On-The-Fly
[CF95, BA84, LP06, PBK+07]. One
[Bak82, BG89b, VHM+01]. One-Pass
[Bak82]. one-way [VHM+01]. online
[CG04, HVDH07]. only [PZJ05]. Opacity
[QG95]. Operating [HM84, BCP08]. Operational [BLRS12, Han94, MF09]. Operations
[AKBLN89, CK94, Lee86, LS79]. Operator
[CSV01, Hen83, LdR81]. Operators
[Ive79, She91]. Optimal
[BOV85, CGST95, FK85, KRS94, Lar95, PB97, Hai98, JNZ06, KSV96, MSR00]. optimality [CP96]. Optimally [BL94a]. Optimistic
[PM04]. Optimization
[Bee94, BBC16, Blo94, BAC16, BT93, DF84, DP97, DHH84, Dha91, DSS88, FOU87, HG83, Pem83, PP94, SS82, Sor89, TV82, Web95, Ass00, BHK07, KBC+99, KF03, PE08, TV07, ZP10, CG95, LaL84, OKN06]. Optimizations
[CC95, JSP+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, Q00, BGR90]. Or-Parallel
[BA93]. orchestraion
[PE08]. Order
[AC94, AD98, Br84, CJ95, DP97, DJP+16, JPP91, JS94, SS98, BHT07, DF11, SKS11, SP97]. ordering
[GS99]. Organization [Han81a]. Oriented
[Bor81, Dar90, Ell82, GTW14, GKL94, GP81, HU96, Ryu16, SM81, Tur84, YB87, YB88, BSvGF03, DWWW08, DMM01, JPS+08, WKO04, WP10, WJS+00]. origins
[San90]. OSI [CDFP89]. Output
[Ber80, BS83]. overflow [KO+06]. overhead
[BP12, SS96]. overlays [SWU10]. Overload
[Bak82]. overloading [SS05b]. Overview
[AOC+88]. ownership
[DDM11, SS96]. Oz [VHB+97].

Package [Hil88]. Paper
[GM81]. Parallel
[ANP9, BOV85, BO94, BE13, Cha93, CGST95, CM91, CL94, DSS83, Fos96, GLO88, GJ93, GPA+01, HCP92, HIT97, JF81, Kna90, Mis94, NSZS13, OA88, Rao94, SS88, BBYG+05, CG86, GB99, HB398, KSV96, LK02, MVV+01, RR03, YF98].
[CBDGF95, Lam88]. predictable
[SHB+97a, CEG07, YS99]. Predictive
[CGJ+17]. Prepagng [FK85]. Presence
[AWW95, CF94, KTU93]. preserving
[DHS09, LST02]. pretenuring [BHM+07].
Pretty [Chi05]. Prettyprinter [Wat83]. Prettyprinting [Opp80]. Primitive
[FJK+17]. Primitive [App15]. principals [T207]. Principles
[Bou88, DRS96]. printing [Chi05].
Priority [CH90, Fid93]. Priority-Based
[CH90]. Privacy [BKOZB13]. Privileges
[Min84]. Probabilistic [BKOZB13, HSP83, MMS96, Rao94, BH90, PPT08]. Problem
[ADG+94, CM84, DS88, Gho93, LSP82, MS88, Pet82, Pet83b, PB97, Sor89, FGM+07a, Wu04]. Problems
[Bac84, DP97, DM95, SRW98].
Procedural [HF87, Lin93, VSS94]. Procedure
[GS99, GL80]. Procedures
[AM85, Kat84, NOT97]. Process
[Kob98, vPS81, WP10]. process-oriented
[WP10]. Processes
[AFdR80, Bag89, FDY12, HM84, KS79, MW84, MC82b, Oss83, Ry88, Sou84, dBB85, AE98, KS10, Ber80, Moi83]. Processing
[GH80, HSG17, Rei83]. Processor
[BG89b, Bud84]. Processors
[GLR83, Per79, LPP01, ZP10]. Product
[RTP17]. Production [Wad90].
Productivity [Sij89]. Profile
[BHM+07, YUW02]. Profile-based
[BHM+07]. Profiling [BL94a, SP97].
Program
[Bal94, Bar85, BAL07, BKB80, Col84, Der85, Fea82, FOW87, FT94, FL91, HSP83, HKR94, Jen97, KKW14, KWLO9, Lam83, Lam88, LFF14, MS83, MW80, Mis81, Nic85, PP94, PPS79, Rem81, RTP17, TSY00, Wat94, Wey83, ZSD09, Ass00, DDD05, GZ04, KF03, LHO8, NS13, Pau01, RAB+07, SLC03, WZ07, WN08, YF09, DKV07].
Programming [AGT89, AR84, ABPS98, BS86, BPP16, BL87, Bir84, Bor81, BMPT94, BWP87, BCEM15, CHY12, CL94, Dar90, DFR15, DGL+79, Dug99, Fos96, FL15, GTWA14, Har80, H85, HO82, Kai89, KH92, Lee86, LVV+83, MK94, Mye90, Pet83b, RCS93, S84, SNS+14, SZBH96, TK94, ABH06, BMR01, Bou06, Bdd1B99, CU08, CG86, CTK86, DWW08, DP00, GW99, HB98, JPS+08, KGM04, MVV+01, MTSS09, MQ05, Tra08, VWJB10, WKD04, WJS+00, Bir85, SWU10].
Programming-in-the-Large [MK94]. Programs
[AWW95, AK87, AFV98, AR80, AP94, AC94, BL94a, Ban87, BGL93, BC85a, BC85b, Ber94, BCD90, BE94, BE13, BEF+16, CR87, CB80, CM86a, Cha93, CEW14, CMN91, Ce80, CFS94, CS87, DGMP97, DW89, Deb89, DL93, Deb95, DP97, DJ90, EPG14, FJK+17, GGS5, GM81, Har80, HCHP92, HPR89, How80, HIT97, ISY88, JW17, Jon83, JS81, Kna90, Lam97, L85, MSJ94, MH86, NSZS13, OA88, OL82, P92, QL91, Rao94, SS98, Sc82, SSS81, SS88, Ven95, Wad90, Web95, Wil2a, AE01, AAE04, BCG+07, CSW06, CSS99, DPF99, DV99, DS89, DMM01, EGM01, GM12, GHG96, GM12, GPA+01, Hau96, HPMS00, JPS+08, KSV96, LMD98, Len04, L89, MF09, M90, 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, Sag86, 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, A00, CP96, S05a, S05a, S05].
Properties [ACW90, AS89, Kar84, OL82, RY88, TB95, Wei89, YS10]. Proposed
[Fat82]. prossima [MP10b]. Protected
[PAS+15, WJS+00]. Protocol [SL92, YS97].
Protocols [MB83, BFGT08, SS96].
Prototype [WCW90, WCW91].
Prototypes [HW82].
provenly [AAD+07]. Proving [DGMP97, GC86, Hen86, Lam79, Lam80, OL82].
Pruning [BN99]. PSG [BS86], publish [Eug07]. publish/subscribe [Eug07]. Pure
[HU96, Pip07, Tar07]. Purpose [App94b, HSS+14, Spo86].

qualifiers [FJKA06]. Quantification
[Vol91, Bur91]. Quantified [Gro06, STS03].
Quantum [FDY12, BH99, Yin11]. Queries
[Bal94]. Queuing [BB79].
Purely [Eug07].
publishable [Eug07].
Pure [HU96, Pip07, Tar07]. Purpose
[App94b, HSS+14, Spo86].

R [AW82, CKT86, KMM+98]. R. [Tic88].
race [AFF06, PFH11]. Races [KZC15].
Random [AS80]. Range [CG95]. Rank
[Dam03]. Ranking [Lee09]. Ratio [CK94].

Reasoning [BKOZB13, BLRS12, BDP93, BP82, BH99, CB80, Lam88, LN15, Rao94, TSBR08].
receive [Got04]. receptive [ABL03].
Recipe [AL94]. reclassification [DDDGC02]. recognition [ATD08].
Recognizer [GHR80]. Recognizing
[BL94b]. Recombination [Kau84].
Recombination-Delaying [Kau84].
Recompilation [BT93, SK88, Tse86, Tse88].
Reconciling [HU96]. Reconstruction
[YS94]. Record [LS79, Oho95]. Recovery
[AB81, ACS84, Bac84, BF87, PK80, Rie85, dJKVS12]. recurrences [VJB12].

Recursion [AK82, Col84, Hen93, KTU93, Mis94, YK97].
Recursive
[AC93, AK82, Bn87, Coh83, Coh85, LBN17, Sij89, ABE+05, AM01, CF04, Dug02, Pal98].
Recursively [BE13].
Reducing [BN99, MYD95, BAP06, KOE+06, SS96].
reduced [SG04]. Reducible [Hav97, JC97].
Reduction [Bee94, Bur84, FRW90, Geo84, KLS92, Mul92, NN86, CSV01].

Redundancies [DS88, Sor89]. redundancy
[KCL+99]. Redundant [Coh83, Coh85].
Reentrant [Bob80]. Reexamination
[BK95]. Refactoring [TFK+11]. Reference
[Bob80, Wis89, KSK07, KOE+06, LP06, MDJ05]. reference-counting [LP06].
References [Han92, SV96]. Referencing
[Bob80, Wis89, KSK07, KOE+06, LP06, MDJ05]. reference-counting
[LP06].

Reference-counting [LP06].
Region [TB98, SYN06].
region-based [SYN06]. regions [RR05].
Register [BCT94, CH90, GSO94, JLF02, RDG08, SH89, GA96, HCS10, LGAT00, PM04, PS99, PF96, TP04]. registers
[BP07]. Regular [CC97, HVP05, LaL81].
Relation [LB97, MTG80]. Relational
[BK0ZB13, CB80, GS98, TLHL11, JJD98, SL92, AG04, QG95]. reflecting [HS11]. reflection
[SW97a]. Region [TB98, SYN06].
region-based [SYN06]. regions [RR05].

Reliability [TCP+17]. Rely
[EGEP17, LFF14]. Rely-Guarantee
[EGEP17]. Rely-Guarantee-Based
[LFF14]. Remembrance [PM90]. Remote
BCP08, SG90]. Removal [AK82].
Remodelling [Cha87]. Renvoise
[Dha91, DS88, Sor89]. Reoptimization
[PS92]. reordering [YUW02]. Repair
[BN99, MF88, MYD95, KOE+06, SS96].
Reciprocities [BP07]. 
Replicate [RB94]. replication [RD03].
Reply
[Bob80, Fra81, LaL83, Tan83, Wir91, SM82].
Representation [DGL +97, Mul92, SM89, Wad90, Wan82, Mil85]  
Representation-Independent [Mul92]  
Representations [Lam87, RF97, Wai80, Wai81, BGP99]  
reshaping [ZCG +07]. Resilient [WL85].  
Resolution [ABR81, Bak82]. Resolved [SIG17]. Resource [CS95, Cla80, IK05, MQ05, BDFZ99, CEN +07, HR02, HAH12].  
Resources [And81, FLBB89]. Respect [Gas83]. Response [Tic88].  
Responsiveness [HU96]. Restores [Wis79].  
Result [TB95]. Results [Ven95, BGP99, SYYH07], Retargetable [DF80, DF81, MV87]. Retention [LS81].  
Revisiting [DI09]. Rewrite [FKW98, Ass00]. Rewriting [KKSD94, BCM09, DDD05, FKW00, GRSK +11, MMM +07]. Right [KS83, LaL81, SJ06]. Rings [BP89, Hua93].  
RISC [PS93]. Rivieres [Hen83]. RMI [MV +01]. Robust [LS83]. Roever [Moi83]. role [Apt00]. Roman [PB97].  
Rounding [FL15]. Row [MM89]. rule [HQT +02]. Rules [GL00, JTM08, SSS4, LSS0, SSD09]. Run [ISY88, TZ07, GMP +00]. Run-Time [ISY88, TZ07, GMP +00]. Runtime [BLH12, BEF +16, TCVB14, BH05a, TSY00].  
S [HCW82], Safes [HCW82]. Safe [AWW95, Dug02, JW17, AFF06, BSFG03, LS03, Loc13, NCH +05, SA00, ZCG +07, MH06, SHB +07]. safe-for-space [SA00]. safety [FF08, YS10]. same [SS05a]. sampling [PPT08]. Santa [WP10]. Satter [MOSS96]. Satin [VWJB10]. satisfaction [DF11]. satisfiability [XA07]. satisfying [Van96a, Van96b]. Saturn [XA07].  
Scalability [TCP +17]. Scalable [FT94, XA07]. ScalaExtrap [WM12].  
Schwanke [Tic88]. Scientific [HOW0].  
Semantic [AAR +10, AWW95, GGL15, MH06]. Semantics [ABHI11, Ans87, AB94, AW82, BGL93, Ber94, BLRS12, Bou88, Boy10, CPS03, CD79, FA93, GM81, Gud92, Han94, JPP91, Kai89, Mul92, NF99, Set83, Sou84, WM95, Wan82, dBB88, ACE96, BMRO1, Bou06, GZ04, MF09, PCJ08, SWU10, SJ03, Tar7, WKD04].  
Semantics-Based [BGL93, CPS03, PCJ08].  
Semantics-Directed [Han94, Set83]. Semaphore [CR87]. Semiring [BMR01]. Semiring-based [BMR01]. Send [Gor04]. Send-receive [Gor04]. Sensitive [OLH +16, PKH07, Ram00, Rep00, RRSY08]. Sensitivity [FL15]. Separating [DDM11]. Separation
Separators [GSO94]. Sequences [GSW95].
Sequent [ABS90]. Sequential
[AFdR80, Ber80, GLR83, HM84, KS79,
MC82b, Moi83, Sou84]. Series [Wat91].
Served [LH91]. server [LDM07]. servers
[BBYG05]. service [CMS03]. Services
[CHY12, RB94, BFG08, CGP09].
Set [Sha82, FF99]. set-based [FF99].
SETL [DGL79, FSS83, SSS81].
Sets [DP82, DPPR00]. Setting
[Lin79, Nie85, HL05]. SHA
[App15]. SHA-256 [App15].
shape-analysis [SRW98]. shaping [HS11].
Share [SS88]. Shared
[Cha93, FLBB89, HK92, KRS88, Pet83b,
Dug02, HB98, TSY00, BC91].
Shared-Memory [Cha93, TSY00]. Sharing
[CSS99, Lam87]. SHErrLoc [ZMVPJ17].
Shift [BN99, MYD95]. Shift-Reduce
[BN99, MYD95]. Short [Sag86]. Should
[LP99]. Side
[Boe85, KWL09, RLS+01, TA08b].
side-effect [RLS+01]. sign [KKN06]. signal
[BH05b]. Signatures [BR97]. Signedness
[GN5+15]. similar [AE98]. Simple
[Boe85, GLO88, JP17, SH89]. simpler
[BKRW98, BRKRW5]. Simplification
[NO79]. Simula [Lan80]. Simulating
[KKSD94]. Simulation
[AMT14, Bar81, Bor81, LFF14, HQRT02].
sin] [Lam90]. Single
[BM94, CFR+91, GPF08].
Single-Assignment [BM94]. Single-Pass
[BM94]. Sit [AKNP17]. situations [WN08].
Size [BA08, BEF+16, Lee09, LD+96].
Size-change [BA08, Lee09]. Slicing
[AHJR14, CF94, GH97, HRR90, Ven95,
WZ07, BHK07, GZ07, NR06, RAB+07,
WR08, ZGZ05]. SLR [BS88, Tai79]. Small
[FLBB89, LH91, Pet83b]. Smart [Tie86].
Smarter [SK88, Tie88]. Smooth [JF81].
Soft [WC97]. Software
[ACM11, AW85, Ber94, DAW88, HSS+14,
How80, JW17, FXL95, PPS79, Pur94,
Walu, YBL16, CTT07, HN05, LS98, ME97,
NCH+05, RDG08, SHB+07, SRM10].
Software-Defined [Wal92]. Soininen
[LaL84]. Soisalon [LaL84].
Soisalon-Soininen [LaL84]. Solution
[ADG+94, DS88, Gho93, Pet83b, Sor89,
WP10]. Solving [GS11, NSTD+15, SRW98].
Some [AB94, AK89, SHR89]. Sometimes
[Gri79]. Sound [LLK+17].
Soundness [Sok87]. source [HBC+09].
Space [BP12, BB79, FLBB89, JP81, NB89,
RD87, YF98, LS09, SS05a, SA00].
Space-Efficient [JP18, NB89]. Space/time
[YF98]. Space/time-efficient [YF98].
nspaces [JLF02]. Span [LS09, RB79].
Span-Dependent [LS80, RB79].
Spanning [GHS83]. Sparse [OL+14].
Spatial [NSTD+15]. Special
[Wo92, Sag07]. Specialization
[AHJR14, BCP08, GJ05, HT04, SL03].
specialization-point [GJ05]. Specializing
[BCD90]. Specific [Gie83, Tra08].
Specification [BCM99, CDFP89, EO80,
Fae87, GMH81, JOn94, Kam83, LN15, Lin93,
LJ99, Lee87, Mal82, Mor88, PPS79, RY88,
TWW82, LP99, LPS004]. Specificalional
[MB99]. Specifications
[AL93, AL95, CES86, DB85, Gaz83, Lee87,
MW84, MB38, Re83, Sch85, Win87, Zav85,
Zic94, vPS81, JJD98, YS97]. Specifying
[GM81, Lam83, RF97]. Speculation
[YBL16, GB99]. speculative [KOE+06].
SPL [HSG17]. Split [Com80]. splitting
[JC97, UM02, WJ98]. SPMD [WM12]. SR
[AOC+88]. SSA [BDP14, GSW95, KCL+99].
SSA-Based [BDP14]. Stabilization
[Gho93, DHS09]. Stabilizing [BP89]. Stack
[CGS+03, FG03, LaL81, CF04, Zho96].
Stack-Controlling [LaL81]. Standard
[Fat82, HMM93, Qia00, Blu99]. State
[ACW90, BLH12, CES86, GC86, PP91,
Pur91, Zav85, AY01, AB+05, MBT09].
Statement [Ell82, Mor88, SM81].
Statement-Oriented [Ell82, SM81].
Statements [CF94]. States [ADGM91].
Static [AKNP17, AC94, BM94, CGJ*97a, CF94, CFR*91, Deb89, LLK*17, LST98, MOS07a, PW94, YS99, ZMVPJ17, CEI*07, GPF08, GZ04, HO07, PSS05, PFH11, RSL10, VJBJ12, WCM00, YF09, AFF06, FFLQ08].
Statically [ACPP91].
Statistical [LLK*17].
Statistics [Lan80].
Staveren [Pem83].
Steensgaard [Ell82, SM82].
Steensgaard-Madsen [Ell82, SM82].
stencil [LS04]. Step [Col84, TVA07]. Steps [Jon83]. Stepwise [CM86a, SL92].
Stepp [Col84, TVA07].
Subsection [AMO98, AMO99].
Subsequence [CG95]. Substitution [Jon94].
Subspace [LLK94].
Subtyping [Vol91, Bur91].
Subtypes [Vol91, Bur91].
Subtyping [AC96, AC93, GGL15, LN15, LBN17, LW94, GZ05, IV06].
Subtyping-Relation [LBN17].
SU INF [HAM*05]. Supercompiler [Tur86]. Superimposition [Kat93].
Support [Bal94, DS90, Fea87, LS83, MK94, Wei90, TSY00]. Supporting [RCRH95].
Symbol [ABR81, Rei83]. Symbolic [Dim90, HP89, Hal85, Hen82, RR05, YMW97, BGP99, MPM03, CM93, WST85].
Symmetric [FY85]. Symmetry [ES97, SG04]. Synchronization [Bag89, DJP*16, Her91, KRS88, RS84b, Sch82, CGS*03, DMM*12, Ram00, RD03].
synchronization-sensitive [Ram00].
Synchronizing [And81]. Synchronous [CS87, TLHL11]. synchrony [CS04].
Syntactic [BF87, GMZ00, MF88, PK80, Wil82b].
Syntax [DMM88, Ode93, Ric85, SSS83, BMR01, CPRT02, Jef03, HCW82].
Syntax-Directed [DMM88].
Syntax-Error-Handling [SSS83]. Syntax/Semantic [HCW82].
Synthesis [AFdR80, AW85, BS86, Bou88, BC80, Fea82, GSP81, Han81b, HM84, JMSY92, LR13, ML80, Mio83, MHS86, PO95, RD13, SA99, WC97, BH05a, FH04, FM99, HO07, JB06, KS10, MTSS09, NP08, PE08, STSP05, MWC99].
systematic [DF98, PSS05].
Systems [ABLP93, AR84, AC84, BKS88, BG89a, BDP93, CB84, CDFP89, CBGDF95, CES86, CPS93, DAW88, Fea87, FKW98, Hen86, Jag94, Jon94, JTM98, Kar84, Kat93, Kau84, Lam84, LW93, Mis86, WGS92, WGS93, WCW90, van88, Ass00, AE98, BCP08, BCM99, BGP99, CSM00, DGG97, GS11, TP04, TZ07, YMW97, WCW91].
Systolic [Hen86].

T [Zic94]. Table [BMW91, PK80, DAS98].
Table-Drive [PK80].
Tabled [SS98].
Tables [ADGM91, DDH84]. Tail [DP97, CF04]. Tail-Call [DP97].
itail-recursive [CF04]. Tailored [Kau84]. Tailored-List [Kau84].
Tanenbaum [Pem83, Tan83]. Target [Van82]. Task [GP95, NSZS13, HB08].
task- [HB39]. Task-Level [GP95]. Task-Parallel [NSZS13].
Tasking [Dil90]. Tasks [GP81]. tcc [PHEK99]. Technical
[BS88, Bur90, Bur91, Coh91, CM93, DS88, Eli82, FA93, Fra81, Hen83, LaL83, LaL84,
Moh81, Mol83, MS88, NN86, Par90, Pem83, Sor89, SM82, Tan83, Tle88, Vol91, WST85,
Wir91, YB88, MMG00]. Technique
[AWW95, BN99, BCD+15, JSB+12, KKM90, SS81, SS83, JNGG10, KBC+99, RD97,
SYN06]. Techniques [AK82, CMN91, DP99, GLR83, How80, TWW82, WCW90, WCW91,
BHK07, DDD05, DEM00, LS98, MSRR00, SS96, TSL+02]. technology [LS98].
Temporal [AS89, CBDFG95, CES86, Kar84, Lam94, MW84, SS89, KWL90].
temporal-ordering [SS89]. temporaries [RMH06]. Ten [Apt81]. Tensor [RTP17].
Tentative [Jon83]. Tenuring [UJ92]. Term [KKSD94, MBT09, GRK+11].
Termination [AF84, Apte86, BAGM12, BCG+07, Fra80b, GJO5, HSSP83, MC82b,
TM93, BAL07, BA08, DDV99, GRK+11, Lee99, PR07, SMP10, Fra80a, Moh81]. Test
[Wey83, WW95, Duc88]. Testing
[AMT14, GMH81, TK94]. Tests [Coh91, Koz97, Wir91, GZ05]. Text [CC97].
Their [Kam83, LaL84, SS82, PS96].
Theoretic [ES97, Sha82, KV00]. Theories
[NSTD+15, Bout06]. Theory [CZ84, KD94, KRS94, NBG13, Ryu16, TLLH11, CGP09,
MH06, Oh07, Pa01, SS05b, Bla03, FG03].
ThingLab [Bor81]. things [PM09].
Thinking [WLB16]. Thinning [Web95].
Third [Woi92]. ThisType [Ryu16].
Thread [YBL16]. Thread-Level [YBL16].
threaded [TSY00]. Three [Oss83]. Tichy
[Tic88]. tiling [JLF02, LS04, RKS12].
Time [AL94, ABR81, BL94b, BLH12,
Coh91, DLR16, Ho87, IS88, Je85, Lam84,
MMG92, PS93, RS84a, RS84b, Wir91, YR94,
Zic94, BAL07, BALP06, BKRW98,
BKRW05, DDD05, GH97, GMF+00, GB99,
GW99, HK07, LS98, LPP01, LS09, MM85,
Ram99, Rep98, SYK+05, Tra98, TZ97,
Wu04, YMW97, LW93]. Time-Constrained
[Zic94, LPP01]. Time-Critical [PS93].
time-efficient [GB99]. Timed [Zic94].
Timeout [LaL84]. Timing [LJ99].
tokenization [Rep98]. Tolerance [LJ99].
Tolerant [CS95, Lam84, AAE04]. Tool
[CPS93]. Toolkit [BDFH97]. toolkits
[VHMT+01]. Tools [van88]. TOPLAS
[MP10a, MP10b]. topology [DD11].
Total [San96]. Trace [FL94, WGS92,
Ban11, RM07, SJ03, WGS93, WM12].
Trace-Based [WGS92, WGS93, WM12].
traces [HBU+06, WR08]. Tracing
[BL94a, DLR16, MMT+07]. tradeoffs
[ZGZ05]. Trailing [VR95]. Traits
[DNS+06]. transactional
[ABH11, CFP+04]. Transactions
[HKMN94]. Transducer [DVLM15].
Transducer-Based [DVLM15].
Transformation
[BKB80, Fle82, FL91, NSZS13, Wat91,
RKR04, San96, TSY00, WZ07].
Transformational [BDFH97, Bir84, Bir85,
DSW82, OA88, RC03]. Transformations
[Bar85, EGM01, Geo94, LdR81, LFF14,
MS83, MCT96, Nie85, FGM+07a, KWL09,
M07a, VAL05, WS97, Hen83, NN86].
Transformers [Lam90, MMS96, MBT09].
TransformGen [GKL94]. Transforming
[AWW95, BE94]. Transformation [PR07].
Translation [AK87, BK11, Kat84, Son87,
AAD+07, BGKR09, DP99, RC03].
Transmission [HL82]. Transparently
[JSB+12]. Transport [Min84].
transpose [CRN+08]. Traversals [LPS04].
Treatment [YB87, YB88]. Tree
AGT89, BOV85, BMW91, DVLM15, DS83,
Han81a, Hen83, LdR81, FGM+07a. Trees [Com80, GHS83, MTG80, Sip82, Wad90, ACM11, SGL97]. trick [DMP96]. Truth [BDH+16]. TSL [LR13]. tuning [GMM99, PE08]. Tuples [Rem81]. Tutorial [GM81]. Two [BO94, CDFP89, GPWZ08, FMoPS11]. Two-dimensional [GPWZ08]. two-variable [FMoPS11]. Type [Bur90b, Car95, CEW14, Coh91, CZ84, Dug92, Eug97, HHPW96, HM93, Hen93, KPS92, KTU93, KR91, Lan80, LO94, LST02, LY98, LP00, NBD13, PO95, SA99, SM98, TW88, Van06, Wal80, WT11, Wir88, WC97, BSvGF03, BCG+07, FJKAO96, FGM07b, FM99, FF08, GZ07, GMZ00, HO07, HHD02, HY07, KF09, KS10, NP08, NCH+05, PT00, STS05, TFK+11, TZ07, Wal81, Wir91]. Type-based [Eug97, LP00, BCG+07]. Type-Extension [Coh91, Wir91]. Type-Graphs [KPS92]. Type-preserving [LST02]. Type-Safe [Dug92, BSvGF03, NCH+05]. Typechecking [CL95, MBC04]. Typed [ACPP91, Geo84, Koh98, NN86, WCM00, AAR+10, LP99, MWC09]. Types [AFF06, AC93, BB94, BCEM15, DD85, EOS0, FFL09, GEGP96, HL82, He88, Jen97, Kam83, LaL89, LO94, LBW97, Loe87, Mal82, MP88, WL85, WE99, WE99, AM01, BBF+11, Dam03, DDM11, DMM01, Go06, GPV07, HVP05, IV06, MME+10, PS96, Pa98, STS03, SP07]. Typestate [GTWA14]. Typestate-Oriented [GTWA14]. Typing [ACPP91, Dug99, RM10, SV96].


Using [AGT89, Bob80, CCG+79a, CES86, CH87, DP93, Di90, DMM01, DJP+16, FLBB89, GSW95, GSO94, HR90, JTM98, Kar84, LaL89, Lam84, Mye90, Ode93, Pet83b, PP94, PBR+15, SS84, SS96, Sok87, SGL98, TVS82, ACM11, BH99, CSG+03, DR05, GS99, GCRN11, KWL09, KSK07, MTSS09, RD03, ST00a, SGL96, TFK+11, VJB12, XA07, YUV02, ZSD09, Pem83]. Utilizing [ES07].

References

Ancona:2007:PCT


Attie:2004:SFT


Ahmed:2010:SFT


Anderson:1981:LLC

S. O. Anderson and R. C. Backhouse. Locally least-cost error recovery in Early’s algorithm.


REFERENCES

Afek:1993:LC

Apt:1998:AIL

Andre:1981:MAC

Ariola:2009:SCA

Amadio:1993:SRT

Ashley:1994:FCP

Abadi:1996:SM
ATTALI:1996:NSE


ALUR:2011:SMC


AD98

REFERENCES

Afek:1994:BFF


Ancona:1991:ECL


Ager:2006:FPE


Attie:1998:SCS


Attie:2001:SCP


Apt:1984:MDT


Appel:1994:E

REFERENCES

Apt:1980:PSC


Abadi:2006:TSL


Alpuente:1998:PEF


Appel:1993:Eb


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

Alur:2004:MRH


Aho:1989:CGU


Alur:1998:FF


Apel:2010:CUF

Sven Apel and Delesley Hutchins. A calculus for uniform feature

**Aung:2014:SS**


**Arsac:1982:STR**


**Alglave:2017:DSF**


**Ait-Kaci:1994:FPC**


**Abadi:1993:CS**


[Ang89] Frank D. Anger. On Lamport’s interprocessor commun-
Anonymous:1982:IA


Anonymous:1983:IA


Anonymous:1984:IA


Anonymous:1985:IA


Anonymous:1986:AI


Anonymous:1986:IA


Anonymous:1987:IA


Anonymous:1988:AI


Anonymous:1988:IA

REFERENCES

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

Anonymous:1989:AI


Anonymous:1989:IA


Anonymous:1990:AI


Anonymous:1990:IA


Anonymous:1991:AI


Anonymous:1991:IA


Anonymous:1992:AI


Anonymous:1992:IA


Anonymous:1994:AI


Anonymous:1995:AI

REFERENCES

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

**Anonymous:1998:AI**


**Anonymous:2002:ADC**


**Anonymous:2002:LDD**


**Arvind:1989:SDS**


**Anonymous:1994:OCF**


**Anson:1987:GIC**


**Andrews:1988:OSL**


**Apt:1994:OCF**

Abadi:2007:E


Appel:1993:Ea


Appel:1994:ABG


Appel:1994:PS


Appel:2015:VCP


Apt:1981:TYH


Apt:1986:CPD


Apt:2000:RCC

Andrews:1980:AAI


Appelbe:1984:ECS


Arnold:1980:URG


Alpern:1989:VTP


Ashcroft:1982:RS

REFERENCES


Avrunin:1985:DAD


AV85


Aiken:1995:SST


AW95


Alur:2001:MCH


AY01

Ben-Ari:1984:AFG


BA84

Blume:1999:HM


BA99

Ben-Amram:2008:SCT


BA08

Backhouse:1984:GDF


Bac84
REFERENCES

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

BONDHUGULA:2016:PAP


BAGRODIA:1989:SAP


BEN-AMRAM:2012:TIL


BRECHT:2006:CGC

Tim Brecht, Eshrat Arjomandi, Chang Li, and Hang Pham. Controlling garbage collection and heap growth to reduce the execution time of Java applications. ACM Transactions on Programming Languages and Systems, 28(5):908–941, September 2006. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

BALL:1994:ECP


BEN-AMRAM:2007:PTA


BATTER:1982:OPA


REFERENCES

Bhatia:2008:RSE

Briggs:1994:IGC

Bergstra:1997:TCT

Bartoletti:2009:LPR

Blackburn:2016:TWT

Botincan:2013:PDP
[BDJ13] Matko Botincan, Mike Dodds, and Suresh Jagannathan. Proof-
directed parallelization synthesis by separation logic. ACM Transactions on Programming Languages and Systems, 35(2): 8:1–8:??, July 2013. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Bernardeschi:2008:DBV


Bueno:1999:EAI


Biernacki:2015:DCP


Bowman:1993:RAN


Barthe:2014:FVS


Boschi:1994:TAP


REFERENCES


REFERENCES

Butler:1999:RAG
Michael Butler and Pieter Hartel. Reasoning about Grover’s quantum search algorithm using probabilistic wp.
CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).


Back:2005:KJR


[BH05b] Peter A. Buhr and Ashif S. Harji. Implicit-signal monitors.

Buhr:2005:ISM


Bird:1985:APA
REFERENCES


Barthe:2011:AMC


Broy:1980:DIA


Breuer:1997:RCS


Barthe:2013:PRR


Buchsbaum:1998:NSL


Buchsbaum:2005:CNS

REFERENCES

DEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic). See [BKRW98].


REFERENCES


Boudol:2012:RAW

Blume:1999:DAS

Brandis:1994:SPG

Bistarelli:2001:SBC

Ball:2005:PPA

Borstler:1991:TCT
Jürgen Börstler, Ulrich Möncke, and Reinhard Wilhelm. Table compression for tree automata.
REFERENCES


REFERENCES


REFERENCES

Broy:1982:CAA


Burns:1989:USS


Balabonski:2016:DFM


Bendersky:2012:SOB


Balakrishnan:2010:WWY


Brent:1989:EIF

REFERENCES


[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.


REFERENCES

Burton:1984:ACP


Burke:1990:IBA


Burton:1990:TCT


Burton:1991:TCA


Broy:1987:ADP


Cameron:1989:EHL


Carlisle:1995:TCC

REFERENCES


REFERENCES


Clements:2004:TRM

Cortesi:1997:CAI

Cytron:1995:ECN

Cytron:1991:ECS

Codish:1994:SAC

Cortes:2004:HLA
REFERENCES

Clark:1986:PPP

Chin:1995:ROA

Christensen:2004:OPE

Calder:1997:EBS

Clarke:1994:MCA

Castagna:2009:TCW
Giuseppe Castagna, Nils Gesbert, and Luca Padovani. A the-
ory of contracts for Web services.


Choi:2003:SAS


Chatterjee:1995:OEA


Chatterjee:1993:CND


Cohen:1987:PCU


Chow:1990:PBC


Charlesworth:1987:MR


Charlesworth:2002:UAC


Chitil:2005:PPL


Carbone:2012:SCC


Cameron:1984:GBD


Consel:1993:PPE


Carr:1994:IRM


Cooper:1986:IIA

[CKT86] Keith D. Cooper, Ken Kennedy, and Linda Torczon. The impact of interprocedural analysis and optimizations in the R(n) programming environment. *ACM
REFERENCES

Crowl:1994:PPC

Chambers:1995:TMM

Clarke:1980:SRI

Chandy:1984:DPP

Chandy:1986:ESR

Chirica:1986:TCI

Copperman:1993:TCF

Codish:1995:IAI


Clifton:2006:MDR


Clemm:1990:MEI


Christensen:2003:EJH


Cohen:1983:CCA


Clemm:1990:MEI

Cohen:1983:ERR

Cohen:1985:NCE

Cohen:1991:TCT

Colussi:1984:RES

Comer:1980:NMS

Copperman:1994:DOC

Carle:1995:MBI

Carle:1996:OCP
Alan Carle and Lori Pollock. On the optimality of change prop-


REFERENCES

Choy:1995:EFT

Chen:2004:LGS

Clausen:2000:JBC

Codish:1999:SGD

Cooper:2001:OSR

Carlsson:2006:MAC

Collberg:2007:DGB
[CTT07] Christian S. Collberg, Clark Thomborson, and Gregg M. Townsend. Dynamic graph-

**Cheney:2008:NLP**


**Constable:1984:TTP**


**Damiani:2003:RIT**


**Darlington:1990:SDG**


**Dujardin:1998:FAC**


**Dillon:1988:CET**


**Dunlop:1985:GSU**

Douglas D. Dunlop and Victor R. Basili. Generalizing specifications for uniformly imple-

**deBruin:1985:DSD**


**Donahue:1985:DTV**


**DeSutter:2005:LTB**


**Drossopoulou:2002:MDO**


**Dencker:1984:OPT**


**Dietl:2011:SOT**


**Decorte:1999:CBT**

Stefaan Decorte, Danny De Schreye, and Henk Vandecasteele. Constraint-based termination analysis of logic pro-


Debray:1995:CDA


DeMillo:1983:GEI


DeFraine:2012:EAC


Davidson:1980:DAR

Jack W. Davidson and Christopher W. Fraser. The design and application of a re-targetable peephole optimizer. *ACM Transactions on Programming Languages and Systems*, 2

Debray:2000:CTC


Dershowitz:1985:PAI


DeFraine:2012:EAC


DeFraine:2012:EAC

REFERENCES


See also corrigendum [DF81].


REFERENCES


DeBoer:1997:PCC

DGMP97

Duesterwald:1997:PFD

DGS97

Dhamdhere:1991:PAG

DHM00

Dolby:2012:DCA
Julian Dolby, Christian Hammer, Daniel Marino, Frank Tip,


Debray:1993:CAL


Dissegna:2016:AIB


Degano:1988:EIL


Diwan:2001:UTA


Danvy:1996:EED


Ducasse:2006:TMF

[DNS+06] Stéphane Ducasse, Oscar Nierstrasz, Nathanael Schäli, 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

REFERENCES


Dhamdhere:1993:EAB


Debray:1997:ICF


DeRose:1999:TTM


Dovier:2000:SCL


Das:2005:PFI


Dawson:1996:PPU

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


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

**Ducournau:2008:PHA**


**Duggan:1999:DTD**


**Duggan:2002:TSL**


**Dantas:2008:APA**


**DeSutter:2007:PID**


**Dantoni:2015:FTB**


**Debray:1989:FCL**

Etalle:2001:TCP


Esparza:2014:PBV


Ellis:1982:TCS


Elder:2014:ADA


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 Nichol-
REFERENCES


**Fateman:1982:HLL**


**Feng:2012:BQP**


**Feather:1987:LSS**


**Flanagan:1999:CSB**


**Furr:2008:CTS**


**Flanagan:2008:TAS**

[FFLQ08] Cormac Flanagan, Stephen N. Freund, Marina Lifshin, and Shaz Qadeer. Types for atomicity: Static checking and inference for Java. *ACM Trans-


Forejt:2017:PPA


Foster:2006:FIT


Fuchs:1985:OPF


Fokkink:1998:WAR


Fokkink:2000:LRE


Fraser:1981:EDS


Fradet:1991:CFL


[Foster:1996:CPP] Ian Foster. Compositional parallel programming languages. ACM Transactions on Programming Languages and Systems,
REFERENCES


REFERENCES


REFERENCES

Grove:2001:FCG

Gulavani:2011:BSA

Gergeron:1982:SAS

Gordon:2017:VIL

Gelernter:1985:GCL

Georgeff:1984:TRS

Ganapathi:1985:AGD
REFERENCES


Graham:1980:ICF


Gallager:1983:DAM


Giegerich:1983:FFD


Gupta:1993:APE


Gries:1980:APC


Grumberg:1994:MCM

[GL94] Orna Grumberg and David E. Long. Model checking and

Glenstrup:2005:TAS


Garlan:1994:TAM


Gavanelli:2005:DIK


Greenberg:1988:SEA


Gottlieb:1983:BTE

Allan Gottlieb, Boris D. Lubachevsky, and Larry Rudolph. Basic techniques for the efficient coordination of very large numbers of cooperating sequential processors. ACM Transactions on Programming Languages and Systems, 5(2):164–189, April 1983. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).
REFERENCES

211–223, July 1981. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).


[Grant:2000:BCD]


[Gange:2015:IAM]

[Gomard:1992:SAP]

[Gorlatch:2004:SRC]
Sergei Gorlatch. Send-receive considered harmful: Myths and

Grit:1981:DIT


Girkar:1995:ETL


Gupta:2001:PEP


Gal:2008:JBV


Grothoff:2007:EOC


Gil:2008:TDB


Gries:1979:SEB

REFERENCES


Gil:2005:EST


Gil:2007:EDD


Hoffmann:2012:MAR


Hailperin:2005:CCC


Hailperin:2005:CCC


Hailperin:1998:COC


Hall:2005:IPA


Hansen:1981:CMI

Hanson:1981:APP

Hansen:1992:SRF

Hannan:1994:OSD

Harel:1980:PNA

Hauser:1996:HFP

Havlak:1997:NRI

Hind:1999:IPA
REFERENCES


Harman:2009:DCS

Hassen:1998:TDP

Hertz:2006:GOL

Hickey:1992:CAM

Huang:2010:DBR

Holt:1982:ISS

Hirzel:2002:UTL
Martin Hirzel, Amer Diwan, and Johannes Henkel. On the useful-


REFERENCES


Jan Heering and Paul Klint. Towards monolingual programming environments. *ACM Transactions on Programming Languages and Systems*, 7(2):
REFERENCES


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

Harper:1993:TSS


Hamlen:2006:CCE

Kevin W. Hamlen, Greg Morrisett, and Fred B. Schneider. Computability classes for enforcement mechanisms. ACM Transactions on Programming Languages and Systems, 28(1):175–205, January 2006. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Hicks:2005:DSU


Hoffman:1982:PE


Higuchi:2007:STS


Hobson:1984:DEE


Holt:1987:DDE

Horwitz:1997:PFI


Howden:1980:ASV


Haghighat:1996:SAP


Hermenegildo:2000:IAC

[HPMS00] Manuel Hermenegildo, German Puebla, Kim Marriott, and Peter J. Stuckey. Incremental analysis of constraint logic programs.

Henzinger:2002:AGR


Hennessy:2002:IFV

REFERENCES

Horwitz:1990:ISU

Harrold:1994:ECI

Huang:2011:MSS

Hirzel:2017:SEL

Hart:1983:TPC

Hayden:2014:KEG

Horwitz:1986:GEE
REFERENCES


[100]

Helsen:2004:PSM

[HT04]

Holzle:1996:RRP

[HU96]

Huang:1990:DDD

[Hua90]

Huang:1993:LEU

[HT04]

Hudson:1991:IAE

[Hud91]

Haridi:1999:ELV
Hirzel:2007:FOP


Hosoya:2005:RET


Holt:1982:MIE


Herlihy:1990:LCC


Hudak:1991:CIE


Honda:2007:UTS


Igarashi:2005:RUA


Igarashi:2001:FJM

[IPW01] Atsushi Igarashi, Benjamin C. Pierce, and Philip Wadler. Featherweight Java: a minimal core calculus for Java and GJ.
REFERENCES

ACM Transactions on Programming Languages and Systems, 23(3):396–450, May 2001. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Inoue:1988:AFP


Igarashi:2006:VPT


Iverson:1979:O


Jagannathan:1994:MBB


Jay:2004:PC


Joisha:2006:AAS


Janssen:1997:MGR

Jefferson:1985:VT


Jeffery:2003:GLS


Jensen:1997:DPA


Juelich:1981:CAS


Jackson:1998:IFM


Jimenez:2002:RTN


Jagannathan:2014:ARV

REFERENCES

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


Peter J. Stuckey, and Roland H. C. Yap. The CLP(R) 
language and system. ACM Transactions on Programming 
ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

[Jeffrey:2010:ESA] Dennis Jeffrey, Vijay Nagara-
jan, Rajiv Gupta, and Neel-

am Gupta. Execution sup-
pression: an automated it-

erative technique for locating 
memory errors. ACM Trans-
actions on Programming Lan-
guages and Systems, 32(5): 17:1– 
17:36, May 2010. CODEN 
ATPSDT. ISSN 0164-0925 
(print), 1558-4593 (electronic).

[Joshi:2006:DPA] Rajeev Joshi, Greg Nelson, and 
Yunhong Zhou. Denali: a prac-
tical algorithm for generating op-
timal code. ACM Transactions 
on Programming Languages and 
Systems, 28(6):967–989, November 2006. CODEN ATPSDT. 
ISSN 0164-0925 (print), 1558-4593 (electronic).

specification and verifica-
tion of distributed systems. ACM Transactions on Program-
CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic). 
URL http://www.acm.org/
pubs/toc/Abstracts/0164-0925/ 
174665.html.
Jazayeri:1981:SES


Jourdan:2017:SPC


Jagadeesan:1991:FAS


Joisha:2012:TTE


Juan:1998:CVC


Joisa:2008:PMG


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

Kandemir:1999:GCO
M. Kandemir, P. Banerjee,


REFERENCES


REFERENCES


References


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


Krogh:1988:AAP

Krogh:1989:AAP


Krogh:1990:AAP


Krogh:1991:AAP


Krogh:1992:AAP


Kieburtz:1979:CCS


Knoop:1994:OCM


Kruskal:1988:ESM


Korach:1984:DAF

REFERENCES

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

**Kieburtz:1983:ARE**


**Keller:1986:AC**


**Kennaway:1988:DSC**


**Kobayashi:2010:HTS**


**Khedker:2007:HRA**


**Knoop:1996:PFE**


LaLonde:1989:DFD


Lamport:1979:NAP


Lamport:1980:CNA


Lamport:1983:SCP


Lamport:1984:UTI


Lamb:1987:ISI


Lamport:1988:CPB


Lamport:1990:WSP

Lamport:1994:TLA


Landwehr:1980:ATS


Larcheveque:1995:OIP


Ligatti:2017:SRC


Liao:1996:SAD


Lee:2007:DIE


LaLonde:1981:HOP


Ligatti:2017:SRC


Landwehr:1980:ATS

REFERENCES

117


Lycklama:1991:FCF


Lhotak:2008:RAB


Lindstrom:1979:BGC


Lin:1993:PIA


Liu:1999:SVF


Lee:2002:ADC


Lee:2017:SNS

Woosuk Lee, Wonchan Lee, Dongok Kang, Kihong Heo, Hakjoo Oh, and Kwangkeun Yi. Sound non-statistical clustering of static analysis alarms. *ACM Transactions on Programming Languages and Systems*, 39
Laufer:1994:PTI

Lochbihler:2013:MJM

Loeckx:1987:ASC

Luckham:1980:AEH
REFERENCES


**Leverett:1980:CSD**


**Lindstrom:1981:RRB**


**Liskov:1983:GAL**


**Lamport:1984:HLC**


**Lang:1998:SAE**


**Levi:2003:MSA**


**Li:2004:ATI**


**Liquori:2008:FME**

Luigi Liquori and Arnaud Spiwack. FeatherTrait: a modest extension of Featherweight Java.
REFERENCES


Liu:2009:DRE


Liu:2005:OAA


Lamport:1982:BGP

Leslie Lamport, Robert Shostak, and Marshall Pease. The Byzantine generals problem. ACM Transactions on Programming Languages and Systems, 4(3):382–401, July 1982. CODEN ATPS DT. ISSN 0164-0925 (print), 1558-4593 (electronic). 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 crypting 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


League:2002:TPC

Christopher League, Zhong Shao, and Valery Trifonov. Type-preserving compilation of Featherweight Java. ACM Transactions on Programming Languages and Systems, 24(2):112–152, March 2002. CODEN ATPS DT. ISSN 0164-0925 (print), 1558-4593 (electronic).

Lengauer:1979:FAF

REFERENCES

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


REFERENCES


REFERENCES

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


[MH86] Mark Moriconi and Dwight Hare. The PegaSys system: Pictures as formal documentation of large programs. ACM
REFERENCES


Mirani:2004:FCM


Merro:2006:BBS


Milne:1985:CRC


Minsky:1984:SLC


Misra:1981:EPE


Misra:1986:AMA


Misra:1994:PSP

REFERENCES


REFERENCES

Marathe:2007:MMT


Masticola:1995:LFM


Morgan:1996:PPT


Mohan:1981:TCF


Moitra:1983:TCA


Monniaux:2008:PVF


Morgan:1988:SS

REFERENCES

129


Moller:2007:SVX


Muller-Olm:2007:AMA


Murer:1996:IAS


Mitchell:1988:ATE


Moore:2002:AC


McKinley:2007:ECG


Mckinley:2010:DVT

Mckinley:2010:PVT


Menon:2003:FSA


Moreau:2005:RAP


Morgan:1988:RC


Maher:1983:API

[MS83] B. Maher and D. H. Sleeman. Automatic program improve-

Murphy:1988:NDP


Marriott:1994:DAI

[MSJ94] Kim Marriott, Harald Søndergaard, and Neil D. Jones. Deno-

Marino:2016:DXU

[MSM+16] Daniel Marino, Abhayendra Singh, Todd Millstein, Madan-
lal Musuvathi, and Satish Narayanasamy. drf x: an under-
derstandable, high performance, and flexible memory model for concurrent languages. ACM Transactions on Programming Languages and Systems, 38(4):
REFERENCES

16:1–16:??, October 2016. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).


Mueller:1987:RMS


Maassen:2001:EJR


Manna:1980:DAP


Manna:1984:SCP


Mulkers:1994:LSD


Morrisett:1999:SFT


McKenzie:1995:ERS

REFERENCES

133


REFERENCES


Nanda:2006:ISM


Nikolic:2013:RAP


Nowatzki:2015:SFS


Nandivada:2013:TFO


Olderog:1988:FPP


Odersky:1993:DCD


Oh:2014:GSA

REFERENCES

**Ohori:1995:PRC**


**Ohori:2007:PTM**


**Ogasawara:2006:EED**


**Owicki:1982:PLP**


**Oh:2016:SXS**


**Odersky:2004:GE**


**Oppen:1980:P**


**Ossefort:1983:CPC**

REFERENCES

O'Hearn:2009:SIH


Pingali:1985:EDD


Pingali:1986:CFI


Pingali:1986:EDD


Palsberg:1995:CAC


Palsberg:1998:EBF


Palsberg:2011:E


Palsberg:2011:EN

Palsberg:2012:E


Palsberg:2013:E


Palsberg:2015:E


Parnas:1990:TCI


Patrignani:2015:SCP


Paulson:2001:MTP


Papadimitriou:1980:PBH


Pingali:1997:OCD

REFERENCES

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

Paz:2007:EFC


Porter:2015:PFG


Pan:2008:PFE


Pemberton:1983:TCT


Perrott:1979:LAV

R. H. Perrott. A language for array and vector processors. ACM Transactions on Programming Languages and Systems, 1
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


Poletto:1999:CTL


Paek:2002:EPA


Pippenger:1997:PVI


Piquer:1996:IDG


Pai:1980:GCR


Paige:1982:FDC


Pearce:2007:EFS


Park:2004:ORC

Jinpyo Park and Soo-Mook Moon. Optimistic register coalescing. ACM Transactions


REFERENCES


[PS03] François Pottier and Vincent Simonet. Information flow infer-
REFERENCES

Pearlmutter:2008:RMA


Pottier:2005:SAS


Pierce:2000:LTI


Purushothaman:1991:CDF


Purtilo:1994:PSB


Pugh:1994:SAU


Pugh:1998:CBA

William Pugh and David Wonncott. Constraint-based array dependence analysis. *ACM Transactions on Programming Languages and Systems*, 20(3):
REFERENCES


Palsberg:1995:EIA


Palsberg:2005:ADC


Qian:2000:SFI


Quong:1991:LPI


Quillere:2000:OMU


Qian:1995:CRO


<table>
<thead>
<tr>
<th>REFERENCES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rong:2008:RAS</strong></td>
<td><strong>Rong:2008:RAS</strong></td>
</tr>
</tbody>
</table>


REFERENCES

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


References


Raja:1997:CFC

Reps:2010:FDL

Reps:1983:ICD

RTP17

Reed:1988:SVL
REFERENCES


REFERENCES


Schwartz:1980:U


Schneider:1982:SDP


Schmidt:1985:DGV


Sampaio:2013:DA


Sistla:2004:SRS


Strickland:2013:CFC


Sethi:1983:CFA


Stamos:1990:RE

Sreedhar:1996:ILU


Sreedhar:1997:ICD


Sreedhar:1998:NFE


Steenkiste:1989:SIR


Sharir:1982:SOC


Stoyle:2007:MMS

REFERENCES


REFERENCES


REFERENCES


REFERENCES

Sorkin:1989:TCS


Soundararajan:1984:ASC


Sansom:1997:FBP


Simonet:2007:CBA


Spooner:1986:MAR


Sekar:1995:FSA


Suhendra:2010:SAC

REFERENCES

159

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


Schulte:2005:WDB

Stuckey:2005:TO

Staiger-Stohr:2013:PIA

Sneyers:2009:CPC
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).

Schonberg:1981:ATS
REFERENCES

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


REFERENCES


(print), 1558-4593 (electronic).

Terauchi:2008:CCC


Terauchi:2008:WSE


Tai:1979:NSG


Tanenbaum:1983:TCT


Tardieu:2007:DLS


Tsay:1995:DFP


Tofte:1998:RIA


Trinder:2017:SRI

[TA08b] Phil Trinder, Natalia Chechina, Nikolaos Papaspyrou, Konstantinos Sagonas, Simon Thompson, Stephen Adams, Stavros
REFERENCES


Tzannes:2014:LSR


Tip:2011:RUT


Thorup:1994:CGA


Tichy:1986:SR


Tichy:1988:TCT

REFERENCES


REFERENCES


REFERENCES


Unger:2002:HIL


Vera:2005:ACM


vandenBos:1988:AIT


VanderZanden:1996:CIA


VanderZanden:1996:IAS


Vansummeren:2006:TIU


Vera:2004:FAF

[VBLG04] Xavier Vera, Nerina Bermudo, Josep Llosa, and Antonio González. A fast and accurate framework to analyze and optimize cache memory behavior.
REFERENCES


Venkatesh:1995:ERD


VanRoy:1997:MOD


VanDenBrand:2002:CLD


VanderZanden:2001:LLA


Verdoolaege:2012:ECS

[Sven Verdoolaege, Gerda Jaansens, and Maurice Bruynooghe. Equivalence checking of static affine programs using widening to handle recurrences. ACM Trans-]
Volpano:1991:TCS


vandenBos:1981:PCB

van den Bos, Jan; Plasmeijer, R.; and Stroet, Jan W. M. Process communication based on input specifications. *ACM Transactions on Programming Languages and Systems*, 3(3):224–250, July 1981. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic).

VanHentenryck:1995:BTC


Waddle:1990:PTC

REFERENCES

Wallis:1980:ERO


Wallis:1981:CER


Wall:1992:ESD


Wand:1982:DTC


Waters:1983:UFC


Waters:1991:ATS


Waters:1994:CBP


Wright:1997:PST

REFERENCES


REFERENCES


REFERENCES


REFERENCES


Wolf:1992:GEI


Wolfe:1994:DDD


Welch:2010:SCF


Wang:2008:DSJ


Whitfield:1997:AEC


Wang:2015:EAS


Wall:1985:TCN

REFERENCES


Yemini:1987:ATE


Yemini:1988:TCA


Yin:2011:FHL


Yu:1997:NCI

REFERENCES


REFERENCES

Zhuang:2007:AAR


Zhuang:2010:OFE


Zhong:2009:PLA