

A Complete Bibliography of *ACM Transactions on Software Engineering and Methodology*

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04 August 2021
Version 1.70

Title word cross-reference

N [RKBL19]. *z* [LCZL14].
-Equivalent [LCZL14]. **-way** [RKBL19].
2.0 [DKD21]. **2002** [Ano02]. **2013** [HP15].
Abbreviated [SRTR17]. **ABC** [SF18].
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[PSZ21, BG98, DBGU13]. **Acceleration**
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[YHR92]. **Accounting** [SM12]. **Accuracy**
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[Arc19, AG20, ASNB19, CSW21, Egy02, FA14, FSM⁺15, GM01, GN93, HJL96, HAB⁺20, JO15, DGD⁺19, MS14, PGZ⁺20, RKBL19, STGR21, TM14, WB13, YBL15, BGO⁺14, CS12, CAC08, FN03, FRB⁺06, TBS92, XM07, XM08]. **Automatic** [CGPP15, CF03, DSV03, MGTR18, UKR21, BRRP05, DO93]. **Automatically** [CMM⁺15, CDKP21, Mem08, YJW⁺20, LS13]. **Automaton** [EM18]. **Autonomous** [FDC⁺21]. **Avoiding** [Hie06]. **Aware** [KAT12, MS15, VLJ⁺18, DFB99a, DFB99b, MGMM11, WYMW20, WXL⁺21].

B [SB06]. **back** [Not13]. **Based** [AB12, ARL⁺15, ASMP16, BMM⁺17, DDE11, GGZ⁺15, JZL⁺19b, LHX21, MWP⁺21, OKS⁺16, SMBO21, SGD15, TSPRC18, WB13, YXK⁺17, ZLW⁺21, ZWY⁺21, AAP⁺20, BGdV92, BCTW96, CMP13, CDSM10, CY11, CCX⁺20, Cia93, CMCP⁺99, CPPRM03, CW98, CZ19, DBGU13, DBPU13, GGGU21, Ham09, HAB13, KATS12, KKLS02, Kip92, KK04, Kuh99, LY05, LH08, MMST14, Mem08, MB07, MS03, MG00, MPF14, NLR11, OPK⁺21, PBO07, PZS⁺20, QNR13, RXX⁺19, RKBL19, SS06, SGE00, SB02, Sne96, TZZ09, TPT13, THHB06, TD01, TK02, UKM04, WAF00, WXL⁺21, XM07, XCKX13, XL20, YHC13, ZZX⁺21, OHDB92]. **Baseline** [SP18, WOM15]. **basis** [AG97, AG98]. **Bayesian** [PLM15, SMY19]. **BDD** [LH08]. **BDD-based** [LH08]. **Behavior** [FDB⁺12, DDGR18, SS02, DBGU13, LK14, MG00, PP93, UKM04]. **Behavior-consistent** [SS02]. **Behavioral** [CZ19]. **behaviors** [IWY00]. **benefits** [LH08, MC08]. **Better** [YB20]. **between** [Gun00]. **Beyond** [GWD⁺21]. **Bilevel** [SKBD14]. **BIP** [ABB⁺18]. **Black** [PGZ⁺20, CTCC98]. **Black-box** [PGZ⁺20]. **Bloat** [NWB⁺18, XMA⁺14]. **Blockchain** [YBZK21, ZOJH21]. **Blockchain-Powered**

[ZOJH21]. **Boa** [DNRN15]. **Boolean** [CCX11, KB07]. **Boosting** [GXLG21]. **Bootstrap** [SMY19]. **bound** [CM08]. **Boundaries** [CSV13]. **boundary** [Hie06]. **Bounded** [PMS13]. **box** [PGZ⁺20]. **Brain** [VBZ⁺18]. **Breaking** [BKHT21, CAC08]. **Brutus** [CJM00]. **Budget** [SMBO21]. **Bug** [LRCS14, TWB⁺19, AM11, CSX08]. **Bug-Fixing** [TWB⁺19]. **Bugs** [AMS⁺18, ZSL⁺13, Jac95a]. **Building** [ELN⁺92, KKLS02]. **Business** [LDUD13, DCS09, ODV⁺09].

C [BCGB21, CWM⁺20, DLRA15, SRTR17]. **C/C** [BCGB21, DLRA15]. **Cache** [WCB⁺20]. **CafeOBJ** [RO18]. **Calculus** [EW11, DSV03]. **Call** [ARL⁺15, ARG17, MNGL98]. **calls** [BHR95, MM13]. **capabilities** [TS09]. **capability** [Kuh99, TK02]. **Case** [Arc19, EM15, HZZ⁺14, OKS⁺16, SMBO21, YBL15, ZOJH21, ZMM⁺16, BJMH02, CD98, DO93, HAB13, MFH02, PSV01, SCK13, TBS92, YBL13]. **Cases** [CMM⁺15, IC14]. **Catalog** [YBZK21]. **Category** [CXH⁺21]. **Causing** [NL11]. **centered** [ACF97, CDFG96]. **Centralised** [Hie14]. **Centrality** [ZCT18]. **centred** [LASL13]. **centric** [HWH14]. **Certificate** [TCDZ19]. **CFL** [LHX21]. **CFL-Reachability-Based** [LHX21]. **chaining** [FK96]. **Change** [YQTR15]. **Changes** [BKHT21, DR11, DPB17, PSV01]. **Channel** [EWS14, GZSW19]. **characteristics** [CF10, SM12]. **Charts** [RGS12]. **Chats** [CDKP21]. **Checker** [MWP⁺21, WYMW20, SGE00]. **Checking** [BHB16, CK99, EBE⁺14, DDGR18, dFLSV14, BS07, BRRP05, BGL00, CDEG03, Esh06, FM94, FGMP03, HJL96, IWY00, JGB12, KATS12, KF07, NEFE03, PBO07, PMS13, SGL12, SMAC08, WGSD07, XCCY10]. **checkpoint** [CY11]. **Chef** [RRPW21]. **Chief** [Pez19d, Ros19]. **Choice**

[EW11]. **class** [BM13, CTCC98, CTC01, CCX11, Egy02, LY05, PPP94, ZXLC14]. **class-level** [CTCC98]. **Classes** [AB12, VCF21, GRT09, HRD08, KB07, Kuh99, Pon02, Tiw08, TK02]. **Classification** [WCG⁺21, DFB99a, DFB99b]. **Classified** [WCG⁺21]. **Classifying** [OSH04]. **cleanroom** [TBS92]. **Clematis** [ASMP16]. **Client** [MS14]. **Client-State** [MS14]. **Clone** [DER10]. **Cloud** [LJL⁺20]. **cluster** [CTC01]. **cmath** [BCGB21]. **co** [VD13]. **co-installability** [VD13]. **coarse** [BRR01]. **coarse-** [BRR01]. **Code** [BXX⁺20, BFFG19, CXH⁺21, DNRN15, GXG⁺20, HNRA20, HZBS14, HAB⁺20, KS20, MB15, OKS⁺16, PZS⁺20, PGZ⁺20, PLM15, SKBD14, SGR⁺15, SRTR17, SURL11, SED14, WLS⁺20, YJW⁺20, ZE14, Dev99, DER10, FMMH⁺14, MPG⁺13, PRM01, RM07, SGG⁺14]. **Code-Smell** [SKBD14]. **Coded** [IC14]. **Cognitive** [FDC⁺21, SHLW21]. **Cohesion** [AB12, CBRO16, CSC06, KK04, MB07]. **coincidental** [Hie06, MA14]. **collaboration** [Sin10, SB02]. **collaboration-based** [SB02]. **collaborations** [HWH14]. **collection** [TM14]. **Combating** [NWB⁺18]. **Combinatorial** [NL11]. **Combining** [DBNG15, Hie14, SMAC08, XZZL18]. **Comment** [CXH⁺21]. **Comments** [Bre95, Pet97, ZWCH21]. **Commercial** [ZMM⁺16]. **Commit** [WXL⁺21]. **Commitments** [EBE⁺14]. **communicating** [Bro93]. **Communication** [CCY⁺21]. **Communities** [ZMM⁺16]. **Community** [DR15]. **comparative** [BRR01]. **Comparing** [Hie02, PSW⁺20, YHC13, XM07]. **Comparison** [WB13]. **Comparisons** [GGZ⁺15]. **Competitiveness** [YXK⁺17]. **Compiler** [MHK11, DFG00]. **Complete** [MWP⁺21, XL20]. **Completion** [PLM15, WYMW20]. **Completion-aware** [WYMW20]. **Complex** [BS16]. **Component** [SEM17, BCC92, CMP13, Ham09, IWY00, VD13]. **component-based** [CMP13]. **components** [BO92, CFM00, DFB99a, DFB99b, ZW97]. **Composing** [BLW09]. **Composite** [BGL00, KDM17]. **Composition** [Ost99, Ham09, REM⁺04, ZJ93]. **Compositional** [HGW⁺16, CK96, CK99]. **Comprehensibility** [SGR⁺15, SGG⁺14]. **Comprehension** [MTRK14, RST⁺14, OSH04]. **Comprehensive** [GLL⁺21, DvdHT05]. **Computing** [LJL⁺20, OHDB92, TC20, EF05, FGL⁺12, MZ09, RMP97, XCCY10]. **Concept** [PGM12, Sne96]. **Concepts** [DG17, MG00, SGL12]. **Conceptual** [QT12, TZZ09]. **Concerns** [MVM07, RM07]. **Concurrency** [MQLR16, ZSL⁺13, DL13, YTL⁺95]. **Concurrent** [AGR19, Cor00, DKM⁺94, DCCN04, HZZ13, MRK⁺97, PTY95]. **Conditional** [EBE⁺14]. **conditions** [KB07, SRK06]. **Conference** [MP14]. **Configurable** [AMS⁺18]. **Configuration** [BNB14, ELvdH⁺05, Gun00, Jéz99]. **Configurations** [SYA21, Sne96]. **Configuring** [XZZL18]. **Conflict** [BFFG19, ZSHD20, FN03]. **Conformance** [ZCT18, Ber94, LK14, PBO07, Pet97]. **confounding** [ZXLC14]. **Conjunction** [ZJ93]. **ConMem** [ZSL⁺13]. **connection** [AG97, AG98]. **connectors** [LWF03]. **Consistency** [SEM17, HJL96, NEFE03, PBO07, XCCY10]. **consistent** [SS02]. **Consolidation** [LDUD13]. **constrained** [BM13]. **Constraint** [DBNG15, GWD⁺21, SSB20, XCCY10]. **Constraints** [CZ19, MWK15, QT12, SGD15, CY11, CK96, OO92]. **constructing** [Hen97]. **Construction** [ARL⁺15]. **Constructs** [KS20]. **Consumption** [LVBBC⁺18]. **container** [XR13].

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Effect-Oriented [ZSL⁺13]. **Effective**
 [FYD⁺08, RD15, ZOJH21, CF10, FCLL21,
 Hen97, REM⁺04]. **Effectiveness**
 [CST16, CMM⁺15, GRS⁺16, MWK15,
 ODE21, CM08]. **Efficiency**
 [CMM⁺15, LH02]. **Efficient**
 [AGR19, AVY11, CWW⁺20, FPGA07,
 SRK06, dFLSV14, RH97]. **Efficiently**
 [DL11]. **Effort** [SP18, SMY19, WOM15,
 AM11, BM07, GJ08, MY13]. **elaboration**
 [UKM04]. **Eliciting** [JPL98]. **Elite**
 [WFW⁺20]. **Embedded**
 [BNB14, MFLL12, GGLT07]. **Emergent**
 [LBZ14]. **Emoji** [CCY⁺21].
Emoji-powered [CCY⁺21]. **Emotion**
 [CCY⁺21]. **Empirical** [AROK21, AAP⁺20,
 CWM⁺20, EHEZ21, FSM⁺15, GLL⁺21,
 LLS⁺21, MBH09, ODE21, RWEB19,

TWB⁺¹⁹, VLJ⁺¹⁸, YXK⁺¹⁷, ZHO⁺¹⁸, BM07, BGH07, GHK⁺⁰¹, HT98, HVT98, MB07, MC08, MNGL98, SR05, Tiw08]. **emulators** [MPR⁺¹³]. **enabled** [VTA04]. **Enabledness** [DBGU13, GGGU21]. **Enabledness-based** [DBGU13, GGGU21]. **end** [Dev99, LASL13]. **end-user** [LASL13]. **Energy** [LVBBC⁺¹⁸]. **Engineering** [AAP⁺²⁰, DG17, DL11, DR15, MBH⁺¹⁷, MP14, OKS⁺¹⁶, STS⁺¹⁸, SF18, WFF⁺¹⁹, ACF97, CDP04, ELvdH⁺⁰⁵, KLV05, LASL13, RSB05, SR05, TBS92, UFG14, XL20, ZJ97]. **engineers** [HBB⁺⁰⁹]. **Engines** [SURL11]. **enhanced** [SS06]. **Enhancing** [TS09]. **Enough** [CBRO16]. **Ensuring** [SEM17]. **environment** [ATW94, Bre95, FGMP03, Kli93, MRK⁺⁹⁷, Rei99, RVMRM04, SN92, TY92]. **environments** [ACF97, DHW98, ELN⁺⁹², KK93, Kli93, MGP⁺¹³, PJRR10, PWD⁺⁹⁹]. **equations** [BRG⁺⁰¹, KGA⁺¹²]. **Equivalence** [LH02, MGTR18, DSV03]. **Equivalent** [LCZL14]. **Errata** [AG98]. **error** [Kuh99, TK02]. **errors** [TD01, ZAW92]. **ESP** [Cia93]. **Essential** [SLB⁺²¹]. **estimates** [GJ08]. **Estimating** [MB15, PBU16, BM07]. **Estimation** [CWW⁺²⁰, PMM⁺⁹⁹, SP18, WOM15, MY13, TZZ09]. **Estimator** [KS20]. **Ethereum** [ZOJH21]. **evaluate** [MGP⁺¹³]. **Evaluating** [LH08, TAA⁺¹⁹, WGG13]. **Evaluation** [AAP⁺²⁰, FA14, KDM17, MS15, RWEB19, SBMK21, CAC08, DBDS94, KK93, MBH09, XCKX13]. **evaluations** [SM12]. **Event** [ASMP16, BCTW96, CW98, DBPU13, Mem08]. **Event-Based** [ASMP16, BCTW96, CW98, DBPU13]. **every** [LYYC14]. **Evolution** [Cai20, DR11, DKD21, RM03, RVMRM04, SN92, THHB06, WGG13]. **Evolutionary** [HLL⁺¹⁶, YB20, Hen97, MBH09]. **evolvability** [CS12]. **evolving** [DCS09, QRLV12]. **EvoMaster** [Arc19]. **EvoSuite** [FA14]. **Exact** [HKMB⁺¹⁴]. **Examination** [ZYL⁺¹⁸]. **Examples** [BS16]. **Exception** [CMP13, ZE14, RM03]. **Executables** [AEK⁺¹⁶]. **Execution** [CPCT21, KPC18, WCB⁺²⁰, YPRK14, AM04, Dil93, DHW98, SMAC08]. **Executions** [BLX⁺²⁰, EM18, PSW⁺²⁰]. **experience** [CMCP⁺⁹⁹, YTL⁺⁹⁵]. **Experiment** [PSZ21, BFN⁺¹⁴]. **Experimental** [CMM⁺¹⁵, DO93, DBDS94, OLR⁺⁹⁶, SMT92]. **Experiments** [SGR⁺¹⁵, Ham09, YBL13]. **expert** [CF10, Kip92]. **Explainability** [RXX⁺¹⁹]. **Explicit** [BHB16]. **Explicit-Data** [BHB16]. **Exploiting** [CGPP15]. **exploration** [QNR13]. **Explorations** [PBU16]. **Exploratory** [TTL⁺²¹]. **Exposing** [LBZ14]. **expressions** [KGA⁺¹²]. **Expressive** [TG11, BLW09, WJ10]. **Extended** [EM15, EM18, ZE14, LY05]. **extensibility** [BJMH02]. **Extensible** [TG11]. **External** [GL14]. **Extracting** [KM10]. **Extraction** [ASN19, BXX⁺²⁰, GWD⁺²¹, MN96]. **extractors** [MNGL98]. **Facet** [DGK21]. **Facet-oriented** [DGK21]. **faceted** [DFB99a, DFB99b]. **Facilitating** [RKBL19, YBL13]. **factors** [SAB⁺¹⁴]. **factory** [BCC92, FLM⁺⁹⁸]. **Failure** [NL11, Wey96]. **Failure-Causing** [NL11]. **Failures** [JO15, LJL⁺²⁰]. **families** [BCD02]. **Family** [GHM18, RKBL19, SGR⁺¹⁵, WFF⁺¹⁹]. **Family-based** [RKBL19]. **Fan** [MVM07]. **Fan-In** [MVM07]. **Far** [GLL⁺²¹, ZYL⁺¹⁸]. **Farewell** [Ros19]. **Fault** [AROK21, EKL⁺¹⁹, KMYK19, Kuh99, TSPRC18, YHC13, YXK⁺¹⁷, CCX11, Hie02, Hie09, KB07, LY05, MA14, SMT92, TK02, XCKX13, ZXLC14]. **Fault-Prone** [AROK21]. **Faults** [HZBS14, SRTR17, LS13]. **Faulty** [SYA21]. **Feasibility** [EK11]. **Feature** [CLBY18, FN03, HLL⁺¹⁶, RWEB19, ZS97, ZZL⁺⁰⁶]. **Feature-Guided** [CLBY18]. **Features**

[JZL⁺19a, KMYK19, DR10, Zav04].
feedback [GJ08]. **FEMOSAA** [CLBY18].
Field [DPB17, JO15]. **finding** [CSX08].
Fine [PGZ⁺20, BRR01, DL13].
Fine-grained [PGZ⁺20, BRR01, DL13].
Finite [BM13, EM18, Cor00]. **Finite-State**
[EM18, Cor00]. **First** [DR15]. **Fixing**
[SRTR17, TWB⁺19]. **FlagRemover**
[BHL11]. **flags** [BHL11]. **Flexible**
[NEFE03, BTI14]. **Floating** [BCGB21].
Floating-Point [BCGB21]. **Flow**
[CH21, DCCN04, For94]. **flow-sensitive**
[For94]. **flows** [MP09]. **Focused** [MJS⁺21].
Follow [STS⁺18]. **Foraging** [FSP⁺13].
Formal [BP05, CTA⁺21, CR94, EWS14,
GXSC21, RO18, YJW⁺20, AG97, AG98,
BRRP05, BKM07, CS12, CMCP⁺99,
CRST12, CPPRM03, FP02, MMST14,
PGM12, SCK13, VTA04, SB06].
Formalizing
[AAG95, CD98, BP98, CDFG96]. **formally**
[CMCP⁺99]. **formatters** [vdBV96].
Formed [TC20]. **formulas** [XCKX13].
forward [Ros13a]. **foundation** [SCK13].
Foundations [KF07]. **Four** [ZJ97, CD98].
frames [KK04]. **Framework**
[AEK⁺16, CTA⁺21, DR11, KAT12, MS15,
YBL15, BCTW96, CDP04, CDFG96, Dev99,
For94, MS03, SGL12, WGG13]. **free**
[KGA⁺12, vdBV96]. **Freedom** [ABB⁺18].
front [Dev99]. **front-end-retargetable**
[Dev99]. **FSMs** [HT17]. **Full** [SRTR17].
Full-Word [SRTR17]. **Functional**
[Bro93, GD08, RST⁺14, MGP⁺13].
Functions
[BCGB21, Hie09, MPG⁺13, VKV03].
Gaia [DL11, ZJW03]. **Gaia-PL** [DL11].
Gas [ZOJH21]. **general** [CCX11].
Generated [CMM⁺15, LS13, WGSD07].
Generating [ARG17, DRW96, GXG⁺20,
HT17, IC14, SSB20, YJW⁺20, Kli93].
Generation [Arc19, AG20, BFFG19, FA14,
FSM⁺15, GSYT21, HLL⁺20, HAB⁺20,
MGTR18, SMBO21, WXL⁺21, vdBV96,
EF05, FK96, FRB⁺06, HZS08, PWX14].
Generative [KAT12]. **Generator**
[NKWF14, DO93]. **Generic**
[CWM⁺20, LL00]. **Genetic**
[DBNG15, YXK⁺17]. **GENOA** [Dev99].
Gitter [EHEZ21]. **Global**
[ABB⁺18, CFL⁺16, WFF⁺19]. **Goals**
[BBS16, DBPU13]. **Google** [CCH⁺21].
governed [MU00]. **GQM** [FLM⁺98].
grained [BRR01, DL13, PGZ⁺20].
grammars [KGA⁺12]. **grammarware**
[KLVO5]. **Graph**
[ARL⁺15, CWH⁺21, PTY95, MNGL98].
graphical [DKM⁺94, MRK⁺97]. **graphs**
[SRK06]. **GreASE** [dFLSV14]. **growth**
[JMS08]. **guarantee** [CAC08]. **GUI**
[Mem08, XM07, XM08]. **GUI-based**
[XM07]. **Guide** [HAB⁺20]. **Guided**
[CLBY18, PWX14, TCDZ19]. **Guidelines**
[GGZ⁺15]. **GUIs** [LVBBC⁺18].
HAMPI [KGA⁺12]. **handle** [LYYC14].
handlers [CMP13]. **Handling**
[AG20, ZE14]. **hard** [CAC08]. **HCSP**
[YJW⁺20]. **healing** [CMP13]. **Help**
[FSM⁺15]. **heterogeneous** [MU00].
Heuristic [ZHO⁺18, ZZX⁺21].
Hierarchical
[YWC16, BO92, SLD⁺13, WJ10].
hierarchies [CCX11]. **hierarchy**
[BM13, DFB99a, DFB99b, LY05].
hierarchy-aware [DFB99a, DFB99b]. **high**
[CF03]. **high-quality** [CF03]. **Higher**
[GXSC21, LWF03]. **Higher-Order**
[GXSC21, LWF03]. **Highly** [AMS⁺18].
History [ARG17, OPK⁺21, FM94].
History-based [OPK⁺21].
history-checking [FM94]. **Hoc** [CDKP21].
Holistic [FDC⁺21]. **hosts** [MPR06].
HOTTest [SS06]. **Human**
[SPAS21, YXK⁺17, CDFG96].
human-centered [CDFG96]. **Hybrid**
[GXSC21, GSH97, ZMM⁺16, CRST12,

CSX08]. **Hybridized** [BBS16]. **Hyper** [ZHO⁺18]. **Hyper-Heuristic** [ZHO⁺18]. **hypotheses** [Hie02, Hie09].

ICSE [MP14]. **Identification** [GHM18]. **Identifier** [SRTR17]. **Identify** [HNRA20]. **Identifying** [CDKP21, GLL⁺21, MVM07]. **III** [MKS⁺15]. **Image** [CCX⁺20]. **Impact** [CST16, ELvdH⁺05, LLS⁺21, PVHW17, Tiw08, ZLW⁺21, EAS08, MA14, RSB05, SGG⁺14]. **Impact-Driven** [PVHW17]. **Implementation** [KDM17, ZCT18, BO92, BPT10, LH08, SB02]. **Implementations** [GZSW19, TTL⁺21, TCDZ19]. **implementing** [CDP04]. **implicit** [SPAK10]. **implied** [UKM04]. **Improve** [CCH⁺21]. **Improved** [CST16]. **Improvement** [CXH⁺21, SR05]. **Improving** [ASN19, BGO⁺14, Cai20, WYMW20, DPT13, GJ08, LH02]. **in-depth** [ZXLC14]. **Incoming** [Pez19d]. **inconsistencies** [CDFG96, GZ05]. **inconsistent** [HN98]. **Incremental** [DPB17, UKM04, YPRK14, KK93, KF07]. **incrementally** [KKLS02]. **Index** [Ano96, TPT13]. **index-sensitive** [TPT13]. **Indicators** [AAP⁺20]. **Inductive** [ASJDW21, BG96]. **Industrial** [OKS⁺16, CMCP⁺99, FLM⁺98, SR05]. **Inference** [NBB15, SMY19]. **Inferring** [EM18, MG00, RO18]. **Inflow** [ZMM⁺16]. **influence** [Sin10]. **Information** [FSP⁺13, WCB⁺20, DFOT07, FBC⁺13, GSH97, MP09, PGM12, TZZ09, THHB06, Wey96, YHC13]. **information-theoretic** [YHC13]. **infrastructures** [BDL06]. **inheritance** [KKLS02]. **inheritance-based** [KKLS02]. **inner** [SAB⁺14]. **inspections** [BFN⁺14, PSMV98]. **installability** [VD13]. **Instances** [SGR⁺15]. **instruction** [AM04]. **IntDroid** [ZWY⁺21]. **Integer** [DLRA15, XL20]. **Integrated** [YB20, CTCC98, ELN⁺92, PWD⁺99, SCK13]. **Integrating** [BFFG19, FRB⁺06, GSH97].

integration [BCTW96, BHR95, SN92, YHR92]. **Integrity** [MWK15]. **Intellectual** [CSV13]. **Intelligent** [PLM15]. **Intensive** [NWB⁺18]. **Inter** [SEM17]. **Inter-** [SEM17]. **Interacting** [GRT09, SYA21]. **Interaction** [AB12, MU00]. **Interaction-Based** [AB12]. **Interactions** [ASMP16, PWX14]. **interchangeability** [DPT13]. **Interface** [PSZ21, CL94]. **Interfaces** [IC14, BRRP05, BTI14]. **international** [NP08, MP14]. **Internet** [YBZK21]. **Interpretation** [WCG⁺21, CSC06]. **interpreters** [BP05]. **Interpreting** [ZZX⁺21]. **Interprocedural** [OO92, SHR01, For94]. **Interval** [SMY19, CDSM10, DKM⁺94]. **interval-based** [CDSM10]. **Intimacy** [ZWY⁺21]. **Intra** [SEM17]. **Intra-Component** [SEM17]. **Intrinsic** [CGPP15]. **Introduction** [HP15, MP14, NP08]. **Invariant** [NKWF14]. **Invariants** [NKWF14]. **investigating** [HBB⁺09]. **Investigation** [LRCS14, MC08]. **Investigations** [Off92]. **invocation** [SPAK10]. **Involvement** [ZMM⁺16]. **IP** [MR99]. **iSENSE2.0** [WYMW20]. **Isolation** [JZL⁺19b]. **ISSTA** [NP08, HP15]. **Issue** [HP15, MP14]. **items** [Gun00]. **iterative** [For94].

J [TS09]. **J-Orchestra** [TS09]. **Java** [BS07, Cor00, HRD08, KM10, LTX19, MRR05, RD15, SRTR17, TS09, XR13]. **JavaScript** [ASMP16]. **Johan** [Ano02]. **Join** [BTI14]. **Journal** [DR15]. **Journal-First** [DR15]. **Journey** [ZYL⁺18].

KBSE [DJ97]. **Key** [SAB⁺14]. **Killing** [CPCT21]. **KLEESpectre** [WCB⁺20]. **Knee** [CLBY18]. **Knee-Driven** [CLBY18]. **Knowledge** [CH21, FMMH⁺14, KK04, MG00]. **knowledge-based** [KK04, MG00]. **Kristen**

[Ano02].

Label [VCF21, ML00]. **Language** [AROK21, WB13, BGdV92, CL94, CFM00, GZ05, JPL98, SHO95, TY92, WAF00, MRRR02]. **language-based** [BGdV92, WAF00]. **Languages** [Bjø19, BJMH02, BHR95, CDSM10, DvdHT05, HZS08, KSD08, RSB05, vdBV96]. **Larch** [CL94]. **Larch/Smalltalk** [CL94]. **Large** [BNB14, DNRN15, FA14, LJL+20, Rus21, MC08, PSV01]. **Large-Scale** [BNB14, FA14, Rus21, PSV01]. **latent** [BGO+14]. **Lattice** [DDE11]. **Lattice-Based** [DDE11]. **Law** [MU00]. **Law-governed** [MU00]. **laws** [LSV08]. **layers** [SB02]. **lazy** [FC00]. **leak** [XR13]. **Leakage** [WCB+20]. **Learn** [KMYK19]. **Learn-to-Rank** [KMYK19]. **Learning** [ASNB19, BS16, DKD21, FCLL21, HGW+16, MPT+21, MS15, TWB+19, WLS+20, ZLW+21, ZZX+21, BG96, MY13]. **Learning-based** [ZZX+21]. **legacy** [THHB06]. **Less** [PBU16]. **Level** [BNB14, DG18, AM04, CTCC98, KSD08, MMST14, Sin10]. **levels** [CTC01]. **Leveraging** [CH21, VCF21]. **lexical** [MN96]. **libraries** [ZW95]. **Library** [DKD21, OHDB92]. **Life** [VCF21, SS02]. **Lightweight** [GHM18, MN96, Jac02]. **LIME** [MPR06]. **Line** [CTA+21, DL11, ZCT18]. **Linear** [SP18, ZAW92]. **Lines** [HLL+20, HAB+20, XZZL18, BJMH02, KATS12, MPG+13]. **Linking** [KS20, SZH+19, FC00]. **links** [DFOT07]. **Literature** [SBMK21]. **liveness** [DBPU13, SGE00]. **Local** [ABB+18, TC20]. **Localisation** [YXK+17]. **Localization** [KMYK19, TSPRC18, MA14, XCKX13, YHC13]. **locating** [TD01]. **Location** [RWEB19, PGM12, ZZL+06]. **Logic** [BMM+17, DKM+94, PMS13, TPT13, ZS97]. **Logic-Based** [BMM+17]. **logical** [FGL+12, MS94]. **logics** [DJ97]. **looking**

[Not13, Ros13a]. **loop** [BHL11]. **loop-assigned** [BHL11]. **Loops** [RD15]. **LSCs** [MHK11]. **LTL** [BLS11].

Machine [DKD21, TWB+19, ZLW+21]. **Machine-Learning-Based** [ZLW+21]. **Machines** [PSZ21, WJ10]. **macro** [Sin10]. **macro-level** [Sin10]. **Mae** [RVMRM04]. **Maintainability** [KDM17]. **Maintaining** [ZCT18]. **majority** [MM13]. **Make** [BKHT21, CMM+15]. **Malware** [Cai20, GHM18, WCG+21, ZLW+21, ZWY+21]. **Managed** [NWB+18]. **Management** [WYMW20, DFOT07, ELvdH+05, Jéz99]. **Managing** [HN98, RVMRM04]. **Manipulation** [MS14, TTL+21, BG98]. **Manual** [BFFG19]. **Many** [HLL+16, HLL+20, MKS+15, XZZL18]. **Many-Objective** [HLL+16, HLL+20, MKS+15, XZZL18]. **Markov** [HGW+16, WP93]. **Marple** [LS13]. **marts** [BCC+01]. **Masked** [GZSW19, GXSC21]. **Mastering** [SPAS21]. **matching** [ZW95, ZW97]. **Math** [SPK14]. **math.h** [BCGB21]. **math.h** [?]Bagnara:2021:PAV. **mathematical** [Sne96]. **MC** [GRS+16]. **MC/DC** [GRS+16]. **MDD** [MGP+13]. **MDESL** [SZH+19]. **means** [BG96]. **Measure** [SHLW21]. **Measurement** [PGZ+20, GD08, MGP+13]. **Measures** [PSW+20]. **Measuring** [MP09, ZSHD20, CW99]. **mechanism** [MU00, WAF00]. **memoriam** [Ros13b]. **Memory** [AEK+16, NWB+18, XR13]. **Merging** [FDB+12, RKBL19, LDUD13]. **Message** [RGS12, WXL+21, CR94]. **Meta** [ZHO+18, Kli93, HZS08]. **Meta-** [ZHO+18]. **meta-AspectJ** [HZS08]. **meta-environment** [Kli93]. **metalocking** [BS07]. **Metamodel** [PBO07]. **Metamodel-based** [PBO07]. **Method** [AB12, CF10, BRRP05, MG00, MM13]. **Method-Method** [AB12]. **Methodology**

[LBZ14, CTC01, DCS09, FGL⁺12, FRB⁺06, HGS93, KSD08, MPR⁺13, MGMM11, RBL⁺01, SCK13, ZJW03]. **Methods** [VBZ⁺18, CMCP⁺99, DFOT07, DBDS94, Rus21]. **Metric** [AB12, PMS13]. **Metrics** [KS20, CSC06, KK04, MSW12, MB07]. **middleware** [EAS08, MPR06, VTA04]. **Migration** [CSW21, SPK14]. **millions** [MPG⁺13]. **Mined** [GXG⁺20]. **Minimal** [NL11]. **Minimization** [XL20]. **Mining** [BBS16, DNRN15, KL21, PZS⁺20, SPK14]. **Mining-based** [PZS⁺20]. **missing** [MM13]. **mitigation** [MA14]. **Mixed** [Rus21]. **Mixed-methods** [Rus21]. **Mixin** [SB02]. **Mobile** [JZL⁺19a, RMP97, ZE14, CFM00, FGMP03, FC00, MZ09, MR99, PRM01]. **Mobility** [JZL⁺19b, MPR06, PRM01]. **Mockups** [RST⁺14]. **Model** [ASNB19, BS16, BDL06, BS07, BHB16, CXH⁺21, DG17, EBE⁺14, GRS⁺16, GTD21, DGD⁺19, DDGR18, MMST14, NBB15, OPK⁺21, PVHW17, LDUD13, Rus21, TSPRC18, WOM15, BKM07, BGL00, CS12, Cal95, CDEG03, CW99, Dil93, Esh06, FGMP03, HAB13, JGB12, KF07, LL00, MS03, MN96, MPR06, ML00, NLR11, PBO07, RVMRM04, SMAC08, SS06, SGE00, TZZ09, VTA04, XM08]. **Model-based** [MMST14, HAB13, MS03, SS06, TZZ09]. **model-checking** [BGL00, CDEG03, FGMP03, KF07]. **Model-Driven** [DG17, GTD21]. **Modeling** [BRG⁺01, FMMH⁺14, JZL⁺19b, MFLL12, MR99, MRRR02, SLD⁺13, BCFM06, BAD08, CDP04, DCS09, DHW98, PWD⁺99, SB06]. **Modelling** [BZSW14, Bjø19, DGC14, DGK21, Jac02]. **Models** [BMM⁺17, DG18, EM18, FDB⁺12, HLL⁺16, DGD⁺19, RGCS14, TC20, WB13, YJW⁺20, YBL15, BDL06, CMCP⁺99, CW98, Cor00, JPL98, MGP⁺13, MG00, MPF14, ODV⁺09, PTY95, SGG⁺14, SCK13, UKM04, YBL13]. **modern** [RSB05]. **modifiability** [SGG⁺14].

Modular [SGR⁺10, WLS⁺20, DvdHT05, FC00]. **modularity** [CS12, HE13, SPAK10]. **modularization** [BGO⁺14]. **Molecular** [EKL⁺19]. **monadic** [TPT13]. **Monitoring** [DDE11, EHF20]. **Monotone** [PSW⁺20]. **motivations** [HBB⁺09]. **Mozilla** [MFH02]. **MPI** [GSYT21]. **Multi** [AROK21, BS16, CDEG03, CLBY18, DG18, LVBBC⁺18, OKS⁺16, SYA21, XL20, ZHO⁺18]. **Multi-Criteria** [OKS⁺16, XL20]. **Multi-Language** [AROK21]. **Multi-Level** [DG18]. **Multi-Objective** [CLBY18, LVBBC⁺18, ZHO⁺18, SYA21, XL20]. **Multi-Step** [BS16]. **Multi-valued** [CDEG03]. **Multiagent** [DL11, ZJW03]. **Multidimensional** [GL11]. **Multilevel** [DGC14]. **Multimodal** [MHK11]. **multinational** [Tiw08]. **multiobjective** [MY13]. **Multitolerant** [EK11]. **multiuser** [KK93]. **multiview** [PBO07]. **mutant** [OLR⁺96]. **Mutants** [CPCT21]. **My** [CCH⁺21, CXH⁺21].

Names [SRTR17]. **natural** [GZ05]. **need** [LYYC14]. **nesting** [MBH09]. **Network** [CWW⁺20, CWH⁺21, RXX⁺19, WLS⁺20]. **Network-based** [RXX⁺19]. **Networks** [PLM15, Sin10]. **Neural** [CWW⁺20, CWH⁺21, RXX⁺19, TWB⁺19]. **next** [HKMB⁺14]. **Node** [LJL⁺20]. **Non** [GGZ⁺15, HT17, MWP⁺21]. **Non-Adequate** [GGZ⁺15]. **Non-deterministic** [HT17]. **Non-Serializable** [MWP⁺21]. **nonanomalous** [DBPU13]. **Nonequivalence** [dFLSV14]. **noninteractive** [ZZL⁺06]. **noninterference** [DFG00]. **notation** [FP02, Jac02]. **notations** [BP05, CDP04]. **Notkin** [Ros13b]. **Novice** [CZ19]. **NSGA** [MKS⁺15]. **NSGA-III** [MKS⁺15]. **numerical** [SMAC08]. **Nygaard** [Ano02].

Obfuscation [GHM18].
Obfuscation-Resilient [GHM18].
Obituary [Ano02]. **Object** [AB12, GGGU21, LHX21, MS94, TG11, Cal95, CTCC98, CTC01, CSC06, DFB99a, DF94, Jac02, MRR05, RS09, RM03, SS02, SB02].
Object-Oriented [AB12, MS94, CTCC98, CTC01, CSC06, DFB99a, DF94, RS09, RM03, SB02].
Object-Sensitive [LHX21]. **objected** [DFB99b]. **objected-oriented** [DFB99b].
Objective [CLBY18, HLL⁺16, HLL⁺20, LVBBC⁺18, MKS⁺15, SHLW21, TAA⁺19, XZZL18, ZHO⁺18, SYA21, XL20].
obliviousness [HE13]. **OBSERV** [TY92].
Observable [HT17]. **observational** [PSV01]. **OCL** [QT12]. **Ole** [Ano02].
Ole-Johan [Ano02]. **Open** [BKHT21, CWM⁺20, RGCS14, WFW⁺20, MFH02, Sin10]. **Open-Source** [RGCS14, Sin10]. **Operational** [SZH⁺19].
operators [OLR⁺96]. **opinion** [CF10].
Optimal [HLL⁺16]. **Optimization** [CLBY18, HLL⁺16, LVBBC⁺18, XZZL18].
Oracles [WPB19, XM07]. **Orchestra** [TS09]. **Order** [GXSC21, SGD15, LWF03, TPT13].
organizational [DCS09]. **Organized** [ZWCH21]. **Oriented** [AB12, ZSL⁺13, AM11, CTCC98, CTC01, CSC06, DFB99a, DFB99b, DF94, DR10, FGL⁺12, HE13, DGK21, MS94, ODV⁺09, RS09, RM03, SB02, SGR⁺10]. **OSS** [ZMM⁺16]. **outcome** [GJ08]. **Outgoing** [Ros19]. **output** [KM10, QNR13]. **Overflow** [ARG17, DLRA15, GXG⁺20, ZWCH21].
overlapping [HaK92].
Pacemaker [BZSW14]. **Pan** [BGdV92].
Parallel [HT17, KK93, PSV01, RD15, SMAC08].
Parameter [TG11]. **parameterization** [BAD08]. **Parameterized** [MRR05].
Parameters [RGCS14]. **Part** [ELN⁺92].
Partial [FDB⁺12, LHX21, PBU16, SGD15, XCCY10].
Partial-Order [SGD15]. **Particular** [XL20]. **Passing** [TG11]. **Patch** [MGTR18, STGR21]. **Patches** [KPC18, TWB⁺19]. **Path** [DDE11, GSYT21, QNR13, SGD15, TPT13, LS13, SRK06]. **Path-** [TPT13].
Path-Sensitive [SGD15]. **Paths** [YWC16].
Pattern [CZ19, SGR⁺15]. **Pattern-based** [CZ19]. **Patterns** [KAS20, DDGR18, ZB13].
Peer [RGCS14]. **Performance** [CFL⁺16, LLS⁺21, RXX⁺19, ZHZ⁺21, Tiw08]. **Person** [ZSHD20]. **Personalized** [ZL13].
Perspective [FSP⁺13]. **pervasive** [MZ09, XCCY10]. **phase** [JGB12].
philosophies [MSW12]. **pilot** [XM08]. **PL** [DL11]. **Place** [MS15]. **Place-Aware** [MS15]. **Planning** [CSW21, ZHO⁺18].
Platform [EHEZ21, LJL⁺20, ZOJH21].
Platys [MS15]. **Play** [CCH⁺21]. **Point** [BCGB21, BTI14]. **Pointer** [LHX21].
pointers [OSH04]. **points** [LH08, MRR05].
points-to [LH08, MRR05]. **Policies** [BBS16, BKHT21, BLW09]. **Polychronous** [GGLT07]. **Polynomial** [NKWF14].
Popular [CCH⁺21]. **Portfolio** [MPG⁺13].
Post [CDKP21, JMS08]. **Post-release** [JMS08]. **Posteriori** [DG17]. **Posts** [ARG17]. **potentially** [ZXLC14]. **Power** [LSV08]. **Powered** [ZOJH21, CCY⁺21].
Practical [BCGB21, CWW⁺20, SZH⁺19, SSB20].
practice [ELvdH⁺05]. **Practices** [BKHT21]. **pragmatic** [HW12]. **Precise** [AB12, KMYK19, LRCS14, XR13].
Precision [LHX21, PSW⁺20].
Precision-Preserving [LHX21].
Predicting [LJL⁺20, MBH⁺17, ZHZ⁺21].
Prediction [CXH⁺21, SMY19, ZL13, ZYL⁺18, ZXLC14].
Predictions [ZZX⁺21]. **Predictive** [LRCS14, HZZ13]. **preliminary** [YTL⁺95].
presence [FYD⁺08, FC00, Hie02, OSH04].

Preserving [LHX21, YHR92]. **Prevalence** [MA14]. **PRIME** [PWD⁺99, MGMM11]. **Principles** [Bjø19]. **Prioritization** [EM15, HZZ⁺14, ZZY⁺21, YHC13]. **Privacy** [BBS16, ML00]. **Probabilistic** [EM18, PBU16, JGB12]. **Problem** [SKBD14, XL20, HKMB⁺14, MY13]. **procedure** [BHR95, MGP⁺13]. **Process** [BCFM06, PVHW17, LDUD13, TC20, ACF97, BCD08, BAD08, CW99, DHW98, GRT09, JPL98, ODV⁺09, PWD⁺99, SR05, SHO95]. **process-centered** [ACF97]. **process-integrated** [PWD⁺99]. **process-oriented** [ODV⁺09]. **Processes** [HGW⁺16, Cia93, CW98, DCS09, FGMP03]. **processing** [ATW94, Bre95]. **Product** [CTA⁺21, DL11, HLL⁺16, HLL⁺20, XZZL18, ZCT18, BJMH02, KATS12, MC08]. **product-lines** [BJMH02]. **production** [TBS92]. **products** [JMS08]. **profiling** [XR13]. **Program** [ASJDW21, BHR95, CH21, GWD⁺21, GRS⁺16, MTRK14, RKBL19, YWC16, YB20, BG96, BGH07, BG98, DBGU13, EF05, GN93, HZS08, KM10, LH02, OSH04, SLB⁺21, YHR92]. **Programmed** [EKL⁺19]. **Programming** [DBNG15, BXX⁺20, CWM⁺20, KS20, KAT12, MZ09, SP18, XL20, YXK⁺17, HE13, Kli93, RSB05, SHO95]. **Programs** [BCGB21, EK11, GXSC21, GSYT21, IC14, KMYK19, CTCC98, CF03, Cor00, DF94, FC00, HZZ13, MP09, PTY95, QRLV12, SMAC08, TS09, YTL⁺95]. **Progressed** [GLL⁺21, ZYL⁺18]. **Project** [ZYL⁺18, Sin10]. **Projections** [MQLR16]. **Projects** [RGCS14, WFW⁺20, ZMM⁺16]. **Prone** [AROK21]. **Proof** [FC00, RO18]. **proofs** [KKLS02]. **Properties** [EHF20, LBZ14, CK99, DCCN04, FPB⁺05, JGB12, Sin10, SGE00]. **Property** [CSV13, DDE11, NBB15]. **Protecting** [ML00]. **protocol** [Ber94, Pet97]. **Protocols** [GGGU21, CJM00, DFG00, PBCT10]. **prototyping** [TY92]. **Prove** [RO18]. **provenance** [MGMM11]. **provenance-aware** [MGMM11]. **psc2code** [BXX⁺20]. **Publication** [DR15]. **purely** [FPB⁺05]. **PVS** [MPF14]. **Python** [HAB⁺20].

Q&A [UKR21]. **Q8A** [GXLG21]. **QoS** [VTA04]. **QoS-enabled** [VTA04]. **Qualitative** [AMS⁺18]. **Quality** [AAP⁺20, CDKP21, MBH⁺17, CF03, GL14, MGP⁺13]. **Quantifying** [GZSW19]. **quantitatively** [CW99]. **queries** [WGS07]. **Query** [MBH⁺17, PJRR10, WGG13]. **Question** [GXG⁺20, GXLG21]. **questions** [KM10]. **Quo** [WFF⁺19]. **QVM** [AVY11].

Race [RD15]. **Random** [TAA⁺19]. **Rank** [KMYK19]. **rationale** [FBC⁺13, YTL⁺95]. **Reachability** [LHX21, CK96, CK99, PTY95]. **reactive** [FS93]. **real** [Cal95, FM94, FP02, GGLT07, MRK⁺97, Ost99, Pon02, SLD⁺13, WME93]. **real-time** [Cal95, FM94, FP02, GGLT07, MRK⁺97, Ost99, Pon02, SLD⁺13, WME93]. **Really** [FSM⁺15]. **Reasoning** [EBE⁺14, FPB⁺05, GZ05, PRM01, CAC08, HN98, RMP97, VTA04]. **Recall** [PSW⁺20]. **Recommendation** [GXLG21]. **Recommendations** [OPK⁺21]. **Recommenders** [AM11]. **Recommending** [DR11, JZL⁺19a, SYA21, STS⁺18]. **recompilation** [ATW94, Bre95]. **Recomposition** [BBS16]. **Reconciling** [SN92]. **Recovering** [DFOT07]. **reduce** [Cor00]. **reduced** [Ber94, Pet97]. **Reducing** [AM11]. **reduction** [DBDS94]. **Redundancy** [CGPP15, HZZ13]. **Reengineering** [Sne96, CF03]. **Refactor** [PZS⁺20]. **Refactoring** [DG18, FSP⁺13, OKS⁺16, VBZ⁺18, SGL12]. **referees** [ACM05]. **reference** [BCC92]. **Refinement** [ASJDW21, Ost99]. **refinements** [SB02]. **Reflection** [LTX19, SLB⁺21]. **reflective** [LL00]. **region**

[DER10]. **RegionTrack** [MWP⁺21]. **regression** [BRR01, GHK⁺01, Mem08, RH97, REM⁺04]. **regular** [KGA⁺12]. **Regulation** [KAS20]. **Regulatory** [GL11]. **Reifying** [Jéz99]. **reimplementation** [CF03]. **Reinforcement** [FCLL21]. **Relatedness** [MB15]. **Relational** [MWK15, FPB⁺05]. **Relative** [HAB⁺20, MB20]. **Release** [ZHO⁺18, HKMB⁺14, JMS08]. **relevant** [MPG⁺13]. **Reliability** [ZL13, JMS08, PMM⁺99, Wey96]. **Remodularization** [CBRO16, MKS⁺15]. **Removing** [LCZL14, HZZ13]. **Repair** [GWD⁺21, NBB15, OPK⁺21, PVHW17, YABLR20, YB20]. **repairing** [Mem08]. **Replication** [RRPW21]. **report** [AM11]. **Reports** [KS20]. **repositories** [Hen97]. **Repository** [DNRN15]. **Representation** [EW11, WLS⁺20]. **representations** [BGL00]. **Representing** [RM07, DER10]. **Reproducing** [JO15]. **Required** [LK14]. **Requirements** [DPB17, GL11, DGD⁺19, RST⁺14, WFF⁺19, ZZY⁺21, CRST12, CD98, GM01, GZ05, HJL96, SMT92, SR05, UFG14, ZJ97]. **Resampling** [SMY19]. **Research** [SF18, EAS08, ELvdH⁺05, RSB05]. **Residual** [LRCS14]. **Resilient** [GHM18]. **Resistance** [GZSW19]. **Resolution** [BFFG19]. **response** [TAW95]. **RESTful** [Arc19]. **restructuring** [BG98, GN93]. **results** [DO93, PJRR10]. **retargetable** [Dev99]. **Retention** [ZMM⁺16]. **Retrieval** [MBH⁺17, SURL11, WXL⁺21, ZWCH21, DFOT07, PGM12]. **Retrieval-based** [WXL⁺21]. **Retrieving** [PP93]. **reusable** [BO92, PP93]. **Reuse** [FSP⁺13, DGD⁺19, EF05, Hen97, HW12, MC08, OHDB92]. **reverse** [AM04]. **Review** [RGCS14, SBMK21, HBB⁺09]. **Reviewers** [ACM03]. **Reviews** [CCH⁺21]. **revisit** [CCX11]. **revisited** [GD08]. **Revisiting** [MB20]. **Rewards** [PBU16]. **rewriting** [VKV03]. **RFC** [TCDZ19]. **RFC-guided** [TCDZ19]. **rich** [RKBL19]. **Risk** [GL11, LBZ14, XCKX13]. **Role** [SPAS21, GJ08]. **router** [CR94]. **rule** [Cia93, Kip92, MM13]. **rule-based** [Cia93, Kip92]. **Rules** [ARG17, MFLL12, KK04]. **Run** [ZHZ⁺21]. **Run-time** [ZHZ⁺21]. **Runtime** [AVY11, BLS11, EKL⁺19, XMA⁺14, BLW09]. **SAEO** [GSYT21]. **safe** [BRR01, BTI14, RH97]. **safety** [BFN⁺14, CK99, SGE00, SRK06]. **SAFKASI** [WAF00]. **Sample** [ZLW⁺21]. **Sampling** [DDE11, PP93, PMM⁺99]. **Sanity** [WYMW20]. **SAT** [AGR19, XZZL18]. **SAT/SMT** [AGR19]. **satisfiability** [BM13, PMS13]. **Sator** [BPT10]. **Scala** [ARL⁺15]. **Scalable** [FCLL21, XMA⁺14, BRRP05, HKMB⁺14, HAB13]. **Scale** [BNB14, DNRN15, FA14, LJL⁺20, VLJ⁺18, PSV01, Rus21]. **Scaling** [HZZ13, LCZL14]. **Scenario** [UKR21, UKM04, WJ10]. **scenario-based** [UKM04]. **Scenarios** [MHK11, UKM04]. **Schedule** [MQLR16]. **Schema** [MWK15, NL11]. **Schemas** [QT12]. **scientific** [CY11, EF05, LYCY14]. **Scope** [MB20]. **Scores** [RO18]. **Screen** [RST⁺14]. **Screencasts** [BXX⁺20]. **Scripts** [RRPW21, RO18]. **SEADS** [FCLL21]. **Search** [AAP⁺20, BS16, CCX⁺20, OKS⁺16, SYA21, SMBO21, SURL11, SED14, TC20, XL20, ZHO⁺18, ZZY⁺21]. **Search-Based** [OKS⁺16, SMBO21, AAP⁺20, XL20]. **Searching** [MPG⁺13, ZZX⁺21]. **second** [TPT13]. **second-order** [TPT13]. **section** [NP08]. **Security** [RRPW21, BDL06, BLW09, CJM00, WAF00]. **segments** [LS13]. **Selection** [HLL⁺16, MPT⁺21, BRR01, CY11, GHK⁺01, RH97]. **selective** [ATW94, Bre95]. **Self** [CLBY18, GLL⁺21, RXX⁺19, PJRR10]. **Self-Adaptive** [CLBY18]. **Self-Admitted**

[RXX⁺19, GLL⁺21]. **self-assessment** [PJRR10]. **Semantic** [BAD08, MB15, PJRR10, MG00].

Semantics [EHF20, LK14, SZH⁺19, HN96, YHR92]. **semantics-preserving** [YHR92]. **Sensing** [BZSW14]. **Sensitive** [LHX21, SGD15, Bro93, Cal95, For94, LH08, TPT13]. **Sensitivity** [LHX21, HKMB⁺14, MRR05]. **Sentiment** [CCY⁺21]. **Sequence** [RGS12, LK14, Mem08]. **sequence-based** [Mem08]. **Sequences** [HT17]. **sequencing** [OO92]. **Serializable** [MWP⁺21]. **service** [BPT10, DPT13, FGL⁺12, HWH14, PBCT10]. **service-oriented** [FGL⁺12]. **Services** [ZL13, BKM07]. **sets** [Hie02]. **Shadow** [KPC18]. **shape** [Cor00]. **Should** [CCH⁺21]. **shuttle** [CD98]. **Side** [EWS14, GZSW19]. **Side-Channel** [EWS14, GZSW19]. **signal** [BRG⁺01]. **Signature** [ZW95]. **Significant** [HZBS14]. **similarity** [OHDB92]. **simplified** [JW94]. **Simulating** [FS93]. **Simulation** [EHF20, KKLS02]. **Single** [ZCT18]. **SIP** [HLL⁺16]. **Site** [GXLG21]. **Sites** [UKR21]. **size** [BGH07, GD08, HGS93, MGP⁺13, TZZ09, ZXLC14]. **slice** [BGH07, MB07]. **slice-based** [MB07]. **slices** [BFN⁺14]. **Slicing** [XMA⁺14, GSH97, LH02, TD01]. **slicing-based** [TD01]. **Small** [HZBS14, Sin10]. **small-world** [Sin10]. **Smalltalk** [CL94]. **Smart** [YABLR20, ZOJH21]. **SMC** [SGE00]. **Smell** [SKBD14]. **Smells** [AROK21, HZBS14, RRPW21]. **SMT** [AGR19, CH21]. **SNIAFL** [ZYL⁺06]. **Snippets** [GXG⁺20]. **Sociotechnical** [KAS20]. **Software** [AAP⁺20, BNB14, BKHT21, Böh18, CBRO16, CTA⁺21, CLBY18, CCY⁺21, CWH⁺21, CSW21, CW99, CFL⁺16, CZ19, DHW98, DR15, DNRN15, EWS14, EM18, EF05, EW11, FSM⁺15, GZSW19, HLL⁺20, HH95, KPC18, MFL12, MBH⁺17, MY13, MB20, MKS⁺15, MP14, OKS⁺16, RKBL19, RGCS14, SP18, STS⁺18, SBMK21, SMY19, SF18, WB13, WPB19, WOM15, XZZL18, XL20, YQTR15, ZSHD20, ZHZ⁺21, AAG95, ACF97, BCTW96, BO92, BGO⁺14, BCD02, CS12, CTC01, CM08, Cia93, CW98, CDP04, CD98, DvdHT05, DFOT07, DCCN04, ELN⁺92, ELvdH⁺05, FK96, FLM⁺98, GJ08, Gun00, HBB⁺09, Hen97, HW12, JPL98, JMS08, KK93, LASL13, LSV08, MMST14, MRRR02, MSW12, MFH02, MC08, NLR11, NP08, Off92, ODV⁺09, PSV01, PP93, PMM⁺99, PSMV98, Rob08, RSB05, SRK06, SN92, SHO95, TZZ09, Tiw08, TBS92, UFG14, VD13]. **software** [WP93, WGG13, XM07, XR13, ZW95, ZW97, DKD21]. **Software-2.0** [DKD21]. **Software-engineering** [XL20]. **Solution** [LJL⁺20]. **Solutions** [LLS⁺21, XL20]. **solver** [KGA⁺12]. **Solvers** [XZZL18]. **Solving** [AGR19, CH21, SSB20, SED14, XL20]. **Some** [HZBS14]. **Sound** [MWP⁺21, XL20]. **Source** [BKHT21, CWM⁺20, DNRN15, HNRA20, KS20, MB15, PZS⁺20, RGCS14, SGR⁺15, SRTR17, SED14, WLS⁺20, WFW⁺20, Dev99, DER10, MFH02, MN96, RM07, SGG⁺14, Sin10, SAB⁺14]. **Source-Code** [DNRN15, SGR⁺15, SGG⁺14]. **sources** [PSMV98]. **Space** [STS⁺18, CD98, DBDS94]. **Special** [HP15, MP14, NP08]. **specialization** [SS02]. **Species** [Böh18]. **specific** [BJMH02, BGL00, HZS08, SS06]. **Specification** [KAS20, KL21, ZW97, Bro93, CDSM10, CL94, CR94, ELN⁺92, FN03, Kuh99, LY05, MS94, PPP94, RMP97, TK02, WME93]. **specification-based** [Kuh99, LY05, TK02]. **Specifications** [EHF20, PSW⁺20, CCX11, DSV03, FM94, HJL96, HRD08, HN98, Jac95b, KB07, MMST14, MS03, Pon02, PMS13, UKM04, WP93, FPGA07]. **specify**

[CFM00]. **Specifying** [PSZ21, DKM⁺94]. **spectra** [NLR11]. **spectra-based** [NLR11]. **Spectrum** [TSPRC18, YXK⁺17, MSW12, XCKX13]. **Spectrum-Based** [TSPRC18, YXK⁺17, XCKX13]. **Speculative** [WCB⁺20]. **Speed** [ODE21]. **Speeding** [TTL⁺21]. **spi** [DSV03]. **Splitting** [LLS⁺21]. **spreadsheet** [FRB⁺06]. **spreadsheets** [RBL⁺01]. **SQL** [AG20]. **SSL** [TCDZ19]. **SSL/TLS** [TCDZ19]. **Stack** [AEK⁺16, ARG17, GXG⁺20, ZWCH21]. **STADS** [Böh18]. **State** [EM18, MS14, PSZ21, RWEB19, WB13, Cor00, DBDS94, WJ10]. **State-Based** [WB13]. **statecharts** [BRG⁺01, HaK92, HN96]. **stateful** [SLD⁺13]. **STATEMATE** [HN96]. **States** [LCZL14]. **Static** [HNRA20, IWY00, KMYK19, RD15, RWEB19, RM03, VLJ⁺18, WGSD07, BGH07, FPB⁺05, GSH97, MNGL98, OO92, ZZL⁺06]. **Statically** [CWH⁺21]. **Statistical** [RGCS14]. **Status** [WFF⁺19]. **Step** [BS16, SLB⁺21]. **Stepwise** [EK11]. **Stochastic** [CFL⁺16]. **strategy** [JW94]. **stratified** [PMM⁺99]. **StreamGen** [GTD21]. **Streaming** [GTD21]. **strength** [MP09]. **Stress** [DBNG15]. **string** [TPT13]. **strings** [KGA⁺12]. **Structural** [Kip92]. **Structure** [GRS⁺16, WB13, RM03]. **structured** [BP98]. **Structures** [KDM17]. **Structuring** [Jac95b]. **Stubborn** [CPCT21]. **Studies** [Cai20, SPAS21, BM07, CD98, HBB⁺09, MFH02]. **Study** [AROK21, CWM⁺20, CCH⁺21, DKD21, EHEZ21, FSM⁺15, GLL⁺21, LLS⁺21, ODE21, OKS⁺16, PZS⁺20, RRPW21, Rus21, TTL⁺21, TWB⁺19, VLJ⁺18, ZOJH21, ZE14, ZHO⁺18, ZMM⁺16, BJMH02, BRR01, BGH07, CF10, GHK⁺01, MB07, MNGL98, PSV01, SMT92, SR05, Tiw08, TBS92, XM08, ZXLC14]. **style** [AAG95]. **Subject** [DPB17]. **Success** [Rus21, Sin10]. **sufficient** [OLR⁺96]. **Suggestion** [ODE21]. **Suite** [HLL⁺20, Ber94, HGS93, Pet97, REM⁺04, XL20, YTL⁺95]. **Suites** [GGZ⁺15, Mem08]. **Summaries** [PXJ17]. **Summarization** [CXH⁺21]. **Support** [DBNG15, JO15, SURL11, ZCT18, BFN⁺14, HWH14, MS03, RM03]. **Supporting** [BG98, DR10, Ham09, MPR06]. **Surveys** [WFF⁺19]. **Sustainability** [Cai20]. **Symbolic** [AEK⁺16, BHB16, CPCT21, Esh06, KPC18, LCZL14, RGS12, WCB⁺20, YPRK14, BGL00, CDEG03, QNR13, SMAC08]. **symmetry** [SGE00]. **symmetry-based** [SGE00]. **symposium** [NP08]. **Synchronisation** [AGR19]. **synthesis** [MMST14]. **synthesized** [PWX14]. **Synthesizing** [DBPU13, WJ10, DL13]. **Synthetic** [SMY19]. **SysML** [BFN⁺14]. **System** [AG20, BLX⁺20, LBZ14, PBU16, SSB20, ZCT18, BGdV92, CDSM10, IWY00, MMST14, MG00, OHDB92, RVMRM04, TBS92, WME93]. **system-level** [MMST14]. **Systematic** [SBMK21, HBB⁺09, MS03]. **Systematizing** [HW12]. **SystemC** [YJW⁺20]. **Systems** [AMS⁺18, AGR19, AVY11, BNB14, CWM⁺20, DL11, DPB17, EKL⁺19, FDC⁺21, FCLL21, KAS20, MPT⁺21, NWB⁺18, PSW⁺20, SYA21, TG11, YBZK21, ZHZ⁺21, BO92, BCD02, Bro93, Cal95, CMP13, CY11, CFM00, CRST12, CDFG96, DFOT07, DJ97, DKM⁺94, DCCN04, FM94, FP02, FS93, GM01, JGB12, Kip92, KK04, LYCY14, MU00, MS94, MRK⁺97, Ost99, ODV⁺09, Pon02, RM03, SLD⁺13, TZZ09, THHB06, WAF00, ZJW03]. **TACCLE** [CTC01]. **Tactics** [YBZK21]. **Tagger** [WYMW20]. **tailoring** [CF10]. **Taming** [SLB⁺21]. **Target** [KMYK19]. **Task** [DBNG15, BBS16, Dil97, ZSHD20, SCK13].

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