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Abstract

This bibliography records books about the Java Programming Language and related software.

Title word cross-reference

$\frac{2}{2}$ [GZ24]. *K* [Nig22].

-KG [GZ24]. **-Means** [Nig22].

10-year [BPLFRL20]. **1051** [Tol24].

2019 [APA+20]. **2022** [SNA+23]. **2024** [For24].

3.0 [BM23].

8 [FRD20, KTB20].

abnormality [AAYK20]. **Abstraction** [DB23, MV20]. **Access** [LMC24]. **according** [ORPPG20]. **adaptable** [HLZ+21]. **Adaptive** [Jug24, TKMS25]. **adaptivity** [CBPC23]. **Addiction** [FLR23]. **Adjustment** [TKMS25]. **Adoption** [TAV20, FBV22]. **Affect** [WWW+22, GGF+24]. **affected** [MNT20]. **Age** [FA25]. **ahead** [MV20]. **ahead-of-time** [MV20]. **aide** [CA20]. **Algorithm** [Jug24, FRD20, Tol24]. **Algorithms** [MKNS20, Nig22, GCC20, NGB23]. **Alternative** [Jug24]. **alternatives** [BKP+22]. **Amplified** [BKWZ24]. **Analysis** [ACC24, HLX23, KGZS24, KTSS20, LTL+24, SV22, TSBB20, AAYK20, ACSK23, DD20, FHSQ20, FCS20, HLZ+21, HSF+22, LKK24, LH22, MSDP23]. **Analytic** [NOEAE25].

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[Dar21, Her21]. **Evolution** [YBSM21, BPLFRL20, CCRS23]. **exception** [CGC+24]. **Execution** [SBBL23, Gór24, NPZ+20, PJJM21, SIK+21]. **expertise** [ORPPG20]. **eXPloitation** [NBA+21]. **Exploits** [SBBL23]. **Exploration** [TZL+25]. **exploratory** [CCRS23]. **expression** [Agu23]. **extended** [NGB23]. **extensible** [KAR23]. **extensive** [ACSK23]. **extraction** [HLZ+21, PJJM21, SS23a]. **extractions** [HR20]. **extractor** [Agu23].

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Obfuscated [AKAS22, SDT+25]. **obfuscation** [FDD20]. **Object** [HLX23, CMBDP25, HSF+22]. **object-oriented** [CMBDP25]. **object-relational** [HSF+22]. **Object-Sensitive** [HLX23]. **Objective** [YB20]. **omniscient** [SIK+21]. **On-the-Fly** [PWSG25]. **one** [MPW+21]. **OPA** [MSDP23]. **Open** [GMBv20, SPS+24, THG20]. **Open-Source** [SPS+24, THG20]. **opportunities** [MSB23]. **optimization** [MV20]. **Optimizing** [FSZD20]. **Ordinal** [MSDP23]. **oriented** [CMBDP25]. **Origins** [BAP20]. **Orthogonal** [PNM+20, Tol24]. **OSS** [MSB23]. **Our** [ZFC+24]. **Overflow** [BPLFRL20, GZ24]. **overhead** [MV20]. **Overlay** [NOEAE25].

package [Gór24]. **Packages** [CASA22, MSB23, ZMD21]. **Pages** [CCH+22]. **pairing** [ZZYD24]. **pairs** [AAYK23]. **Parallel** [MT23, Nig22, NGB23]. **parallelization** [KTB20]. **Party** [SVTTB23, ZFC+24, HCL22]. **past** [MBGG+24]. **Pathfinder** [APA+20, SNA+23]. **pattern** [BCOC24, BKP+22]. **Patterns** [AST23, TOO+23]. **PCJ** [NGB23]. **pearl** [Ram22]. **Performance** [FSZD20, HHCZ25, Nig22, NGB23, TPBF23, ZXX23, ZLL+25, TCDT23]. **Persistence** [Cob22, PNM+20]. **persistent** [PNM+20]. **phase** [WLKZ25]. **pipelines** [MV20]. **Plain**

[SS23b]. **Platform** [JGSG+21, KTSS20, BCOC24, CPV+20]. **Platform-Independent** [KTSS20, JGSG+21]. **Point** [Dar21, ASD+23]. **Pointer** [HLX23, LTL+24, LH22]. **Polyrun** [CK21]. **polytopes** [CK21]. **Practice** [SPS+24, TAV20, YBSM21]. **Practices** [WHP+23]. **precise** [ZZ20]. **Predicting** [FHB24, SAC21]. **Prediction** [NXL+22]. **Preservation** [LFBM23]. **Principal** [ZBA23]. **priorities** [CFLH+22]. **Prioritization** [LYA24]. **Priority** [MSDP23]. **Producing** [BBB+23]. **Production** [TMB24]. **Program** [KMSH22, TZL+25, WWW+22, ZLL+25, MCF+22, MV20, PJJM21, XWJ+24]. **Programmer** [Dar21]. **Programmers** [Fei22, ORPPG20]. **Programming** [ATJ+24, BWTS+23, Cob22, C+23, Fei22, LMM21, SS23b, YB20, BAP20, Kin20, WFW25]. **Programs** [CHLV25, YB20, ASD+23, AAYK23, FRD20, MNT20, PVR+20]. **Projects** [GMBv20, JCA+22, NXL+22, SGHM23, WHP+23, ZFC+24, GCS+20, HCL22, MBGG+24, MCM24, MLBD21, SAC21, THG20]. **prone** [AAYK20]. **Properties** [WKJ+23]. **Protection** [SBW25, Bie22]. **Provenance** [NOEAE25]. **ProvenanceWidgets** [NOEAE25]. **Python** [AAYK23, Ano20, BLS+23, ZXX23, ZXZ+24, ZMD21]. **Pythonic** [ZXZ+24].

quality [MCM24]. **Quantifying** [FLR23].

radio [DAAZ+20]. **random** [FRD20]. **RASP** [SBW25]. **Rationale** [GZ24]. **readability** [GGF+24]. **Real** [BBB+20, MLBD21]. **Real-time** [BBB+20]. **real-world** [MLBD21]. **reasoning** [ASD+23]. **Recommendation** [ZWY+20, WLKZ25]. **Recovery** [TZL+25]. **Recursive** [ZZdSO23, Ram22]. **Refactoring** [HTA24, ZXZ+24, KTB20, MSB23]. **Refactoring-Aware** [HTA24]. **RegCPython** [ZXX23]. **Regex** [CFLH+22]. **Regex-dependent** [CFLH+22]. **Register** [ZXX23]. **Register-based** [ZXX23]. **regular** [Agu23]. **Reinforcement** [SDT+25, TKMS25]. **related** [MLBD21]. **Relation** [GZ24]. **relational** [HSF+22]. **Relations** [ATJ+24]. **relationship** [MCM24]. **Relooper** [Ram22]. **Remote** [SBBL23]. **Remote-Code** [SBBL23]. **Repair** [CHLV25, FHB24, KMSH22, YB20, ZLL+25, ZWY+20]. **repairs** [GCS+20]. **Replication** [NXL+22, SV22]. **representation** [FHZ+22]. **Reproduction** [KYAY24]. **Research** [BM23]. **Resolution** [GSGM24, ZZ20]. **resource** [GCS+20]. **Resources** [SGG+24]. **Result** [BLS+23]. **Retrospective** [FA25]. **rich** [SS23a]. **right** [Cob22]. **risks** [HCL22]. **Robillard** [For24]. **robust** [LKK24]. **robustDEA** [LKK24]. **Role** [FA25]. **Ruby** [ZMD21]. **rule** [ASD+23]. **rule-** [ASD+23]. **run** [MBGG+24]. **Runtime** [WLC+24, CBPC23, SBW25]. **Rust** [vO23].

Safe [KTB20, LMM21]. **Safe-by-default** [LMM21]. **Safety** [KZWS25, vO23]. **sampling** [CK21]. **SBST** [FA25]. **Scalable** [BBB+20, JQZ20]. **Scale** [MAL24, HR20, RBRB23]. **Search** [LYA24, SDT+25, ZZF+24]. **Search-Based** [LYA24, ZZF+24]. **Security** [SBW25, TSBB20, SS23a]. **security-rich** [SS23a]. **Selector** [ZZF+24]. **Self** [PBC24, SBW25]. **Self-debugging** [PBC24]. **Self-Protection** [SBW25]. **semantic** [FHSQ20, FHZ+22]. **Semantics** [MT21, WWW+22, FCS20]. **Semantics-based** [FCS20]. **Sensitive** [HLX23, KGZS24, LH22]. **Sensitivity** [LTL+24]. **sequence** [CWQZ25]. **Sequential** [MT23]. **server**

[NBA+21, TAM+22]. **server-side** [NBA+21, TAM+22]. **Sets** [C+23]. **SGX** [WLC+24]. **SGX-Friendly** [WLC+24]. **Shaken** [BKWZ24]. **SHARP** [LH22]. **Shivers** [Jug24]. **Should** [Dar21, Her21]. **side** [NBA+21, TAM+22]. **SIGSOFT** [For24]. **similar** [AAYK23]. **Simplifying** [CCH+22]. **simulator** [DAAZ+20]. **Site** [HZN+22]. **size** [SIK+21]. **size-limited** [SIK+21]. **Skills** [Ano20]. **Slicing** [TSBB20]. **Small** [FSZD20]. **smart** [Gór24]. **SmarTS** [Gór24]. **smell** [HSF+22]. **Smells** [JCA+22, MCM24]. **Smoothing** [Tol24]. **SMT** [ASD+23]. **SMT-based** [ASD+23]. **snapshots** [MBGG+24]. **social** [BPLFRL20]. **Software** [BBB+23, GZ24, KZWS25, LYA24, SPS+24, TKMS25, TPBF23, CAC20, CA20, MSDP23, SAC21, TCDT23]. **solid** [WFD23]. **Solver** [MSDP23]. **Solving** [CFLH+22, TSBB20]. **Sort** [Jug24]. **Sorting** [Jug24]. **Source** [GMBv20, SPS+24, THG20]. **SourcererJBF** [MAL24]. **Specialization** [SVTTB23]. **Specification** [KGZS24]. **specifications** [NPZ+20]. **Speed** [PWSG25]. **Speed-Ups** [PWSG25]. **Spork** [LFBM23]. **spotting** [HFS22]. **spread** [CCRS23]. **Sql** [Ano20]. **Stack** [BPLFRL20, GZ24]. **State** [BM23, PJJM21, TCDT23]. **stateful** [JGSG+21]. **Static** [AXR+23, ACSK23, FCS20, HSF+22]. **steady** [TCDT23]. **still** [MBGG+24, THG20]. **Stirred** [BKWZ24]. **Storage** [ACC24]. **Strategies** [SV22]. **stream** [MV20]. **streams** [KTB20, RBRB23]. **String** [YAP23, CFLH+22]. **structural** [CAC20, JQZ20]. **structure** [ORPPG20]. **Structured** [LFBM23, Ram22]. **Structures** [MKNS20]. **Stubbifier** [TAM+22]. **Study** [CASA22, GMBv20, HLR24, LMC24, NFH22, NXL+22, SBBL23, SGHM23, TAV20, XWY+24, AAYK20, BPLFRL20, CCRS23, CAC20, CA20, HR20, THG20, WFW25]. **Suboptimal** [WHP+23]. **Subsequence** [SDT+25]. **Subtyping** [ZZdSO23]. **Suite** [FA25, Gór24]. **Suites** [ACSK23]. **Support** [YAP23]. **supporting** [BBG+22]. **Survey** [NFH22]. **Swing** [RK20]. **Syntax** [PWSG25, XWJ+24]. **syntax-aware** [XWJ+24]. **synthesis** [MCF+22]. **System** [CHLV25, SBW25]. **Systems** [ZLL+25].

Taint [KGZS24, KTSS20]. **Technical** [ZBA23]. **Temporal** [WKJ+23]. **Test** [ACSK23, CHLV25, FHB24, FA25, ZZF+24, Gór24, MCM24, THG20]. **Test-Based** [CHLV25]. **Testing** [MBGG+24, RW20, SPS+24, SBW25, CGC+24]. **Tests** [BKWZ24, SGG+24, MBGG+24]. **TFA** [ZZ20]. **Theia** [BA23]. **Their** [BKWZ24, GCS+20, MCM24, ORPPG20]. **Theory** [WFD23]. **There** [ZKX+23, TCDT23]. **Things** [Her21, DAAZ+20, JGSG+21]. **ThingsMigrate** [JGSG+21]. **Third** [SVTTB23, ZFC+24, HCL22]. **Third-Party** [SVTTB23, ZFC+24, HCL22]. **Threaten** [ZFC+24]. **Time** [HZN+22, NXL+22, BBB+20, MV20]. **too** [HFS22]. **Tool** [CCH+22, HSF+22, SIK+21]. **Tools** [AXR+23, BM23, API+22, ACSK23, SBW25]. **top** [Ano20]. **Trace** [BA23, SIK+21]. **Traces** [BA23, DD20]. **Track** [NOEAE25]. **Tracking** [ACC24, HTA24, HHK20]. **transducers** [CFLH+22]. **Transformations** [Tol24]. **Transformer** [MT23]. **translation** [FCS20, Ram22]. **transpilation** [MCF+22]. **Transpilers** [NHF24]. **tree** [ORPPG20]. **Trivial** [CASA22]. **Two** [Her21, WLKZ25]. **two-phase** [WLKZ25]. **type** [FRD20, FDD20, HFS22]. **type-directed** [FRD20]. **typed** [FRD20]. **types** [HFS22]. **TypeScript** [CMBDP25, WFW25]. **typestate** [BBG+22].

UI [NOEAE25]. **UltimateKalman** [Tol24]. **un-** [FBV22]. **Understanding** [BPLFRL20]. **Unifying** [NPZ+20]. **Unit** [ZZF+24, THG20]. **unsound** [HFS22]. **unstructured** [Ram22]. **Untriviality** [CASA22]. **updates** [HCL22]. **Ups** [PWSG25]. **Usage** [NHF24, YBSM21, ZMD21]. **usages** [HCL22]. **Use** [BWTS+23]. **User** [TKMS25]. **userspace** [DD20]. **Using** [BA23, C+23, FHB24, DB23, HHCZ25, SAC21, Tol24, ACSK23, HLZ+21, MSDP23, MCF+22, MV20, SIK+21].

valid [THG20]. **value** [BBB+20]. **variability** [CMBDP25]. **variable** [AAYK23]. **variables** [AAYK20, CFLH+22]. **VariCity** [CMBDP25]. **verifying** [ASD+23]. **version** [NGB23]. **via** [ATJ+24, FYL+23, TZL+25, WLKZ25, YB20]. **Viewer** [BA23]. **Virtual** [DD20, PNM+20, CGC+24, ZZ20]. **Visual** [RW20]. **visualization** [CMBDP25, PJJM21]. **Visualize** [BA23]. **Vulnerabilities** [SBBL23]. **Vulnerability** [AXR+23, TSBB20, ZFC+24, LFHX23, NBA+21]. **Vulnerable** [BLS+23, ZFC+24, SAC21].

wanted [Ano20]. **WasmView** [RW20]. **web** [Agu23, MSDP23, ACC24, BM23, CCH+22, FLR23, NB23, TSBB20]. **web-based** [MSDP23]. **WebAssembly** [RW20]. **WebCollectives** [Agu23]. **Weight** [TKMS25]. **well** [FRD20]. **well-typed** [FRD20]. **While** [RK20]. **Whole** [FA25]. **Wider** [YAP23]. **wild** [DBP22]. **Wildcards** [Bie22]. **Will** [WWW+22]. **wish** [Ano20]. **witness** [Bie22]. **Workshop** [APA+20, SNA+23]. **world** [MLBD21]. **wrappers** [AS23]. **written** [SS23a].

XSS [LFHX23].

year [BPLFRL20]. **years** [WBE20].

ZipAST [CWQZ25]. **ZWT** [CPV+20].

References

Aman:2020:ESA

[AAYK20] Hirohisa Aman, Sousuke Amasaki, Tomoyuki Yokogawa, and Minoru Kawahara. Empirical study of abnormality in local variables and its application to fault-prone Java method analysis. *Journal of Software: Evolution and Process*, 32(4):e2220:1–e2220:??, April 2020. CODEN ???? ISSN 2047-7473 (print), 2047-7481 (electronic).

Aman:2023:ADC

[AAYK23] Hirohisa Aman, Sousuke Amasaki, Tomoyuki Yokogawa, and Minoru Kawahara. An automated detection of confusing variable pairs with highly similar compound names in Java and Python programs. *Empirical Software Engineering*, 28(5):??, September 2023. CODEN ESENFW. ISSN 1382-3256 (print), 1573-7616 (electronic). URL `https://link.springer.com/article/10.1007/s10664-023-10339-2`.

Ahmad:2024:EAW

[ACC24] Zubair Ahmad, Samuele Casarin, and Stefano Calzavara. An empirical analysis of Web storage and its applications to Web tracking. *ACM Transactions on the Web (TWEB)*, 18(1):7:1–7:28, February 2024. CODEN ???? ISSN 1559-1131 (print),

1559-114X (electronic). URL https://dl.acm.org/doi/10.1145/3623382.

Amankwah:2023:BDJ

[ACSK23] Richard Amankwah, Jinfu Chen, Heping Song, and Patrick Kwaku Kudjo. Bug detection in Java code: an extensive evaluation of static analysis tools using Juliet Test Suites. *Software—Practice and Experience*, 53(5):1125–1143, May 2023. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Agun:2023:WLR

[Agu23] Hayri Volkan Agun. WebCollectives: a light regular expression based web content extractor in Java. *SoftwareX*, 24(??):??, December 2023. CODEN ???? ISSN 2352-7110. URL http://www.sciencedirect.com/science/article/pii/S2352711023002650.

Alazab:2022:DOM

[AKAS22] Ammar Alazab, Ansam Khraisat, Moutaz Alazab, and Sarabjot Singh. Detection of obfuscated malicious JavaScript code. *Future Internet*, 14(8):217, July 22, 2022. CODEN ???? ISSN 1999-5903. URL https://www.mdpi.com/1999-5903/14/8/217.

Anonymous:2020:SWS

[Ano20] Anonymous. Skills wanted: Sql, Java, Python, and AWS top employers' wish lists — [careers]. *IEEE Spectrum*, 57(1):59, January 2020. CODEN IEESAM. ISSN 0018-9235 (print), 1939-9340 (electronic).

Artho:2020:JPW

[APA+20] Cyrille Artho, Quoc-Sang Phan, Peter Aldous, Alyas Almaawi, Lucas Bang, Lasse Berglund, Tevfik Bultan, Zhenbang Chen, Hayes Converse, Wei Dong, William Eiers, Milos Gligoric, Simon Goldsmith, Lars Grunske, Joshua Hooker, Ismet Burak Kadron, Timo Kehrer, Sarfraz Khurshid, Xuan-Bach D. Le, David Lo, Eric Mercer, Sasa Misailovic, Egor Namakonov, Hoang Lam Nguyen, Yannic Noller, Benjamin Ogles, Rohan Padhye, Pavel Parizek, Corina S. Pasareanu, S. Jacob Powell, Seemanta Saha, Koushik Sen, Elena Sherman, Kyle Storey, Minxing Tang, Willem Visser, Ji Wang, and Hengbiao Yu. The Java Pathfinder Workshop 2019. *ACM SIGSOFT Software Engineering Notes*, 45(2):20–22, April 2020. URL https://dl.acm.org/doi/10.1145/3385678.3385685.

Amalfitano:2022:HDJ

[API+22] Domenico Amalfitano, Ana C. R. Paiva, Alexis Inquel, Luís Pinto, Anna Rita Fasolino, and René Just. How do Java mutation tools differ? *Communications of the ACM*, 65(12):74–89, December 2022. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (elec-

tronic). URL https://dl.acm.org/doi/10.1145/3526099.

Amato:2023:JJB

[AS23] Gianluca Amato and Francesca Scozzari. JGMP: Java bindings and wrappers for the GMP library. *SoftwareX*, 23(??):??, July 2023. CODEN ???? ISSN 2352-7110. URL http://www.sciencedirect.com/science/article/pii/S2352711023001243.

Abbasi:2023:CRS

[ASD+23] Rosa Abbasi, Jonas Schiffl, Eva Darulova, Mattias Ulbrich, and Wolfgang Ahrendt. Combining rule- and SMT-based reasoning for verifying floating-point Java programs in KeY. *International Journal on Software Tools for Technology Transfer (STTT)*, 25(2):185–204, April 2023. CODEN ???? ISSN 1433-2779 (print), 1433-2787 (electronic). URL https://link.springer.com/article/10.1007/s10009-022-00691-x.

Arteca:2023:LHL

[AST23] Ellen Arteca, Max Schäfer, and Frank Tip. Learning how to listen: Automatically finding bug patterns in event-driven JavaScript APIs. *IEEE Transactions on Software Engineering*, 49(1):166–184, January 2023. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Ayerdi:2024:GAG

[ATJ+24] Jon Ayerdi, Valerio Terragni, Gunel Jahangirova, Aitor Arrieta, and Paolo Tonella. GenMorph: Automatically generating metamorphic relations via genetic programming. *IEEE Transactions on Software Engineering*, 50(7):1888–1900, July 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Afrose:2023:ESV

[AXR+23] Sharmin Afrose, Ya Xiao, Sazzadur Rahaman, Barton P. Miller, and Danfeng Yao. Evaluation of static vulnerability detection tools with Java cryptographic API benchmarks. *IEEE Transactions on Software Engineering*, 49(2):485–497, February 2023. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Besseling:2023:UTT

[BA23] Johan Besseling and Cyrille Artho. Using Theia trace viewer to visualize JPF traces. *ACM SIGSOFT Software Engineering Notes*, 48(1):22–26, January 2023. CODEN SFENDP. ISSN 0163-5948 (print), 1943-5843 (electronic). URL https://dl.acm.org/doi/10.1145/3573074.3573081.

Bright:2020:ODP

[BAP20] Walter Bright, Andrei Alexandrescu, and Michael Parker. Origins of the D programming language. *Proceedings*

of the ACM on Programming Languages (PACMPL), 4 (HOPL):73:1–73:38, June 2020. URL https://dl.acm.org/doi/abs/10.1145/3386323.

Basin:2020:KKV

[BBB+20] Dmitry Basin, Edward Bortnikov, Anastasia Braginsky, Guy Golan-Gueta, Eshcar Hillel, Idit Keidar, and Moshe Sulamy. KiWi: a key–value map for scalable real-time analytics. *ACM Transactions on Parallel Computing (TOPC)*, 7(3): 16:1–16:28, August 2020. CODEN ???? ISSN 2329-4949 (print), 2329-4957 (electronic). URL https://dl.acm.org/doi/abs/10.1145/3399718.

Balliu:2023:CPS

[BBB+23] Musard Balliu, Benoit Baudry, Sofia Bobadilla, Mathias Ekstedt, Martin Monperrus, Javier Ron, Aman Sharma, Gabriel Skoglund, César Soto-Valero, and Martin Wittlinger. Challenges of producing software bill of materials for Java. *IEEE Security & Privacy*, 21(6):12–23, November/December 2023. ISSN 1540-7993 (print), 1558-4046 (electronic).

Bacchiani:2022:JTC

[BBG+22] Lorenzo Bacchiani, Mario Bravetti, Marco Giunti, João Mota, and António Ravara. A Java typestate checker supporting inheritance. *Science of Computer Programming*, 221(??): ??, September 1, 2022. CODEN SCPGD4. ISSN 0167-6423 (print), 1872-7964 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0167642322000776.

Bertolotti:2024:WDD

[BCOC24] Francesco Bertolotti, Walter Cazzola, Dario Ostuni, and Carlo Castoldi. When the dragons defeat the knight: Basilisk an architectural pattern for platform and language independent development. *The Journal of Systems and Software*, 215 (??):??, September 2024. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic). URL http://www.sciencedirect.com/science/article/pii/S016412122400133X.

Bianchini:2023:JLC

[BDGZ23] Riccardo Bianchini, Francesco Dagnino, Paola Giannini, and Elena Zucca. A Java-like calculus with heterogeneous coeffects. *Theoretical Computer Science*, 971(??):??, September 6, 2023. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0304397523003766.

Bierhoff:2022:WNW

[Bie22] Kevin Bierhoff. Wildcards need witness protection. *Proceedings of the ACM on Programming Languages (PACMPL)*, 6 (OOPSLA2):138:1–138:??, October 2022. CODEN ???? ISSN 2475-1421 (electronic). URL

https://dl.acm.org/doi/10.1145/3563301.

Bijlsma:2022:EDP

[BKP+22] Lex A. Bijlsma, Arjan J. F. Kok, Harrie J. M. Passier, Harold J. Pootjes, and Sylvia Stuurman. Evaluation of design pattern alternatives in Java. *Software—Practice and Experience*, 52 (5):1305–1315, May 2022. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Brandt:2024:SSH

[BKWZ24] Carolin Brandt, Ali Khatami, Mairieli Wessel, and Andy Zaidman. Shaken, not stirred: How developers like their amplified tests. *IEEE Transactions on Software Engineering*, 50(5): 1264–1280, May 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Brun:2023:BPJ

[BLS+23] Yuriy Brun, Tian Lin, Jessie Elise Somerville, Elisha M. Myers, and Natalie Ebner. Blindspots in Python and Java APIs result in vulnerable code. *ACM Transactions on Software Engineering and Methodology*, 32 (3):76:1–76:??, July 2023. CODEN ATSMER. ISSN 1049-331X (print), 1557-7392 (electronic). URL https://dl.acm.org/doi/10.1145/3571850.

Bucur:2023:EMJ

[BM23] Vlad Bucur, , and Liviu-Cristian Miclea. Entering the metaverse from the JVM: The state of the art, challenges, and research areas of JVM-based Web 3.0 tools and libraries. *Future Internet*, 15(9):305, September 07, 2023. CODEN ???? ISSN 1999-5903. URL https://www.mdpi.com/1999-5903/15/9/305.

Blanco:2020:USE

[BPLFRL20] Guillermo Blanco, Roi Pérez-López, Florentino Fdez-Riverola, and Anália Maria Garcia Lourenço. Understanding the social evolution of the Java community in Stack Overflow: a 10-year study of developer interactions. *Future Generation Computer Systems*, 105 (??):446–454, April 2020. CODEN FGSEVI. ISSN 0167-739X (print), 1872-7115 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0167739X19311884.

Brown:2023:NUJ

[BWTS+23] Neil C. C. Brown, Pierre Weill-Tessier, Maksymilian Sekula, Alexandra-Lucia Costache, and Michael Kölling. Novice use of the Java programming language. *ACM Transactions on Computing Education*, 23(1): 10:1–10:??, March 2023. CODEN ???? ISSN 1946-6226. URL https://dl.acm.org/doi/10.1145/3551393.

Cristia:2023:DPI

[C+23] Maximiliano Cristiá et al. Declarative programming with intensional sets in Java us-

ing JSetL. *The Computer Journal*, 66(3):763–784, March 2023. CODEN CMPJA6. ISSN 0010-4620 (print), 1460-2067 (electronic). URL `http://academic.oup.com/comjnl/article/66/3/763/6521749`.

Capiluppi:2020:LCC

[CA20] Andrea Capiluppi and Nemitari Ajienka. Lexical content as a co-operation aide: a study based on Java software. *The Journal of Systems and Software*, 164(??):??, June 2020. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S016412122030025X`.

Capiluppi:2020:EMD

[CAC20] Andrea Capiluppi, Nemitari Ajienka, and Steve Counsell. The effect of multiple developers on structural attributes: a study based on Java software. *The Journal of Systems and Software*, 167(??):??, September 2020. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S016412122030073X`.

Chowdhury:2022:UTP

[CASA22] Md Atique Reza Chowdhury, Rabe Abdalkareem, Emad Shihab, and Bram Adams. On the untriviality of trivial packages: an empirical study of npm JavaScript packages. *IEEE Transactions on Software Engineering*, 48(8):2695–2708, August 2022. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Carvalho:2023:DBR

[CBPC23] Tiago Carvalho, João Bispo, Pedro Pinto, and João M. P. Cardoso. A DSL-based runtime adaptivity framework for Java. *SoftwareX*, 23(??):??, July 2023. CODEN ???? ISSN 2352-7110. URL `http://www.sciencedirect.com/science/article/pii/S2352711023001929`.

Chaqfeh:2022:JWD

[CCH+22] Moumena Chaqfeh, Russell Coke, Jacinta Hu, Waleed Hashmi, Lakshmi Subramanian, Talal Rahwan, and Yasir Zaki. `JSAnalyzer`: a Web developer tool for simplifying mobile Web pages through non-critical JavaScript elimination. *ACM Transactions on the Web (TWEB)*, 16(4):17:1–17:??, November 2022. CODEN ???? ISSN 1559-1131 (print), 1559-114X (electronic). URL `https://dl.acm.org/doi/10.1145/3550358`.

Caivano:2023:SED

[CCRS23] Danilo Caivano, Pietro Cassieri, Simone Romano, and Giuseppe Scanniello. On the spread and evolution of dead methods in Java desktop applications: an exploratory study. *Empirical Software Engineering*, 28(3):??, May 2023. CODEN ESENFW. ISSN 1382-

3256 (print), 1573-7616 (electronic). URL https://link.springer.com/article/10.1007/s10664-023-10303-0.

Chen:2022:SSC

[CFLH+22] Taolue Chen, Alejandro Flores-Lamas, Matthew Hague, Zhilei Han, Denghang Hu, Shuanglong Kan, Anthony W. Lin, Philipp Rümmer, and Zhilin Wu. Solving string constraints with regex-dependent functions through transducers with priorities and variables. *Proceedings of the ACM on Programming Languages (PACMPL)*, 6(POPL):45:1–45:31, January 2022. CODEN ???? ISSN 2475-1421 (electronic). URL https://dl.acm.org/doi/10.1145/3498707.

Chen:2024:CEH

[CGC+24] Bochuan Chen, Xiao Guo, Yuting Chen, Xiaofeng Yu, and Lei Bu. Constructing exception handling chains for testing Java virtual machine implementations. *Journal of Software: Evolution and Process*, 36(4):e2562:1–e2562:??, April 2024. CODEN ???? ISSN 2047-7473 (print), 2047-7481 (electronic).

Csuvik:2025:GBS

[CHLV25] Viktor Csuvik, Dániel Horváth, Márk Lajkó, and László Vidács. GenProgJS: a baseline system for test-based automated repair of JavaScript programs. *IEEE Transactions on Software Engineering*, 51(2):325–343, February 2025. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Ciomek:2021:PJL

[CK21] Krzysztof Ciomek and Miłosz Kadziński. Polyrun: a Java library for sampling from the bounded convex polytopes. *SoftwareX*, 13(??):Article 100659, January 2021. CODEN ???? ISSN 2352-7110. URL http://www.sciencedirect.com/science/article/pii/S2352711021000042.

Collet:2025:VEC

[CMBDP25] Philippe Collet, Johann Mortara, Yann Brault, and Anne-Marie Dery-Pinna. The VariCity ecosystem: City visualization of object-oriented variability in Java and TypeScript. *Science of Computer Programming*, 240(??):??, February 2025. CODEN SCPGD4. ISSN 0167-6423 (print), 1872-7964 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0167642324001333.

Cobbs:2022:PPW

[Cob22] Archie L. Cobbs. Persistence programming: Are we doing this right? *ACM Queue: Tomorrow's Computing Today*, 20(1):24–39, January 2022. CODEN AQCUAE. ISSN 1542-7730 (print), 1542-7749 (electronic). URL https://dl.acm.org/doi/10.1145/3526210.

Cirani:2020:ZNC

[CPV+20] Simone Cirani, Marco Picone, Luca Veltri, Luca Zaccomer, and Francesco Zanichelli. ZWT: a new cross-platform graphical interface framework for Java applications. *SoftwareX*, 12(??): Article 100599, July/December 2020. CODEN ???? ISSN 2352-7110. URL http://www.sciencedirect.com/science/article/pii/S2352711020303125.

Chen:2025:ZEM

[CWQZ25] Zixian Chen, Weiping Wang, Yan Qin, and Shigeng Zhang. ZipAST: Enhancing malicious JavaScript detection with sequence compression. *Computers & Security*, 153(??):??, June 2025. CODEN CPSEDU. ISSN 0167-4048 (print), 1872-6208 (electronic). URL https://www.sciencedirect.com/science/article/pii/S0167404825000793.

Darabkh:2020:JIC

[DAAZ+20] Khalid A. Darabkh, Oswa M. Amro, Raed T. Al-Zubi, Haythem Bany Salameh, and Ramzi Saifan. JavaSim-IBFD-CRNs: Novel Java simulator for in-band full-duplex cognitive radio networks over Internet of Things environment. *Journal of Network and Computer Applications*, 172(??):??, December 15, 2020. CODEN JNCAF3. ISSN 1084-8045 (print), 1095-8592 (electronic). URL http://www.sciencedirect.com/science/article/pii/S1084804520303039.

Darcy:2021:FPA

[Dar21] Joseph D. Darcy. Floating-point arithmetic: What every Java programmer should know! Web site 29m37s video., 2021. URL https://youtu.be/ajaHQ9S4uTA.

Federico:2023:CEA

[DB23] Gemma Di Federico and Andrea Burattin. CvAMoS — event abstraction using contextual information. *Future Internet*, 15(3):113, March 18, 2023. CODEN ???? ISSN 1999-5903. URL https://www.mdpi.com/1999-5903/15/3/113.

DaSilva:2022:BCW

[DBP22] Léuson Da Silva, Paulo Borba, and Arthur Pires. Build conflicts in the wild. *Journal of Software: Evolution and Process*, 34(4):e2441:1–e2441:??, April 2022. CODEN ???? ISSN 2047-7473 (print), 2047-7481 (electronic).

Daoud:2020:MAJ

[DD20] Houssem Daoud and Michel Dagenais. Multilevel analysis of the Java Virtual Machine based on kernel and userspace traces. *The Journal of Systems and Software*, 167(??):??, September 2020. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0164121220300698.

Fraser:2025:RWT

[FA25] Gordon Fraser and Andrea Arcuri. A retrospective on whole test suite generation: On the role of SBST in the age of LLMs. *IEEE Transactions on Software Engineering*, 51(3): 874–878, March 2025. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Ferreira:2022:AJF

[FBV22] Fabio Ferreira, Hudson Silva Borges, and Marco Tulio Valente. On the (un-)adoption of JavaScript front-end frameworks. *Software—Practice and Experience*, 52(4):947–966, April 2022. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Ferrara:2020:CJB

[FCS20] Pietro Ferrara, Agostino Cortesi, and Fausto Spoto. From CIL to Java bytecode: Semantics-based translation for static analysis leveraging. *Science of Computer Programming*, 191 (??):??, June 1, 2020. CODEN SCPGD4. ISSN 0167-6423 (print), 1872-7964 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0167642320300034`.

Foket:2020:EEJ

[FDD20] Christophe Foket, Koen De Bosschere, and Bjorn De Sutter. Effective and efficient Java-type obfuscation. *Software—Practice and Experience*, 50(2): 136–160, February 2020. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Feigenbaum:2022:GJP

[Fei22] Barry Feigenbaum. *Go for Java Programmers Learn the Google Go Programming Language*. Apress, Berkeley, CA, USA, 2022. ISBN 1-4842-7199-8. xxxv + 582 + 61 + 1 pp. LCCN QA76.73.G63 F45 2022.

Fatima:2024:FUL

[FHB24] Sakina Fatima, Hadi Hemmati, and Lionel C. Briand. FlakyFix: Using large language models for predicting flaky test fix categories and test code repair. *IEEE Transactions on Software Engineering*, 50(12):3146–3171, December 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Fang:2020:DMJ

[FHSQ20] Yong Fang, Cheng Huang, Yu Su, and Yaoyao Qiu. Detecting malicious JavaScript code based on semantic analysis. *Computers & Security*, 93(??): Article 101764, June 2020. CODEN CPSEDU. ISSN 0167-4048 (print), 1872-6208 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0167404820300481`.

Fang:2022:JMJ

[FHZ+22] Yong Fang, Chaoyi Huang, Minchuan Zeng, Zhiying Zhao, and Cheng Huang. JStrong: Malicious JavaScript detection

based on code semantic representation and graph neural network. *Computers & Security*, 118(??):Article 102715, July 2022. CODEN CPSEDU. ISSN 0167-4048 (print), 1872-6208 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0167404822001110`.

Fouquet:2023:BBQ

[FLR23] Romain Fouquet, Pierre Laperdrix, and Romain Rouvoy. Breaking bad: Quantifying the addiction of Web elements to JavaScript. *ACM Transactions on Internet Technology (TOIT)*, 23(1):22:1–22:??, February 2023. CODEN ???? ISSN 1533-5399 (print), 1557-6051 (electronic). URL `https://dl.acm.org/doi/10.1145/3579846`.

Forti:2024:IMR

[For24] Stefano Forti. An interview with Martin Robillard — 2024 SIGSOFT awardee. *ACM SIGSOFT Software Engineering Notes*, 49(3):19–20, July 2024. CODEN SFENDP. ISSN 0163-5948 (print), 1943-5843 (electronic). URL `https://dl.acm.org/doi/10.1145/3672089.3672094`.

Feitosa:2020:TDA

[FRD20] Samuel Feitosa, Rodrigo Ribeiro, and Andre Du Bois. A type-directed algorithm to generate random well-typed Java 8 programs. *Science of Computer Programming*, 196(??): ??, September 15, 2020. CODEN SCPGD4. ISSN 0167-6423 (print), 1872-7964 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0167642320301039`.

Frison:2020:BAB

[FSZD20] Gianluca Frison, Tommaso Sartor, Andrea Zanelli, and Moritz Diehl. The BLAS API of BLASFEO: Optimizing performance for small matrices. *ACM Transactions on Mathematical Software*, 46(2):15:1–15:36, June 2020. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3378671`.

Feng:2023:BBB

[FYL+23] Pengbin Feng, Li Yang, Di Lu, Ning Xi, and Jianfeng Ma. BejaGNN: behavior-based Java malware detection via graph neural network. *The Journal of Supercomputing*, 79(14): 15390–15414, September 2023. CODEN JOSUED. ISSN 0920-8542 (print), 1573-0484 (electronic). URL `https://link.springer.com/article/10.1007/s11227-023-05243-x`.

Gavidia-Calderon:2020:IJF

[GCC20] Carlos Gavidia-Calderon and César Beltrán Castañon. `Isula`: a Java framework for ant colony algorithms. *SoftwareX*, 11(??): Article 100400, January/June 2020. CODEN ???? ISSN

2352-7110. URL http://www.sciencedirect.com/science/article/pii/S2352711019300639.

Ghanavati:2020:MRL

[GCS+20] Mohammadreza Ghanavati, Diego Costa, Janos Seboek, David Lo, and Artur Andrzejak. Memory and resource leak defects and their repairs in Java projects. *Empirical Software Engineering*, 25(1):678–718, January 2020. CODEN ESENFW. ISSN 1382-3256 (print), 1573-7616 (electronic). URL http://link.springer.com/article/10.1007/s10664-019-09731-8.

Guerra:2024:HDA

[GGF+24] Eduardo Guerra, Everaldo Gomes, Jeferson Ferreira, Igor Wiese, Phyllipe Lima, Marco Gerosa, and Paulo Meirelles. How do annotations affect Java code readability? *Empirical Software Engineering*, 29(3):??, May 2024. CODEN ESENFW. ISSN 1382-3256 (print), 1573-7616 (electronic). URL https://link.springer.com/article/10.1007/s10664-024-10460-w.

Griesemer:2020:FG

[GHK+20] Robert Griesemer, Raymond Hu, Wen Kokke, Julien Lange, Ian Lance Taylor, Bernardo Toninho, Philip Wadler, and Nobuko Yoshida. Featherweight Go. *Proceedings of the ACM on Programming Languages (PACMPL)*, 4 (OOPSLA):149:1–149:29, November 2020. URL https://dl.acm.org/doi/10.1145/3428217.

Ghiotto:2020:NMC

[GMBv20] G. Ghiotto, L. Murta, M. Barros, and A. van der Hoek. On the nature of merge conflicts: A study of 2,731 open source Java projects hosted by GitHub. *IEEE Transactions on Software Engineering*, 46(8):892–915, 2020. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Gorski:2024:SJP

[Gór24] Tomasz Górski. SmarTS: a Java package for smart contract test suite generation and execution. *SoftwareX*, 26(??):??, May 2024. CODEN ???? ISSN 2352-7110. URL http://www.sciencedirect.com/science/article/pii/S2352711024000694.

Ghorbani:2024:DAA

[GSGM24] Negar Ghorbani, Tarandeep Singh, Joshua Garcia, and Sam Malek. Darcy: Automatic architectural inconsistency resolution in Java. *IEEE Transactions on Software Engineering*, 50(6):1639–1657, June 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Gong:2024:MKM

[GZ24] Lina Gong and Haoxiang Zhang. MR_2^2-KG: a multi-

relation multi-rationale knowledge graph for modeling software engineering knowledge on Stack Overflow. *IEEE Transactions on Software Engineering*, 50(7):1867–1887, July 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Huang:2022:CUU

[HCL22] Kaifeng Huang, Bihuan Chen, and Yang Liu. Characterizing usages, updates and risks of third-party libraries in Java projects. *Empirical Software Engineering*, 27(4):??, July 2022. CODEN ESENFW. ISSN 1382-3256 (print), 1573-7616 (electronic). URL `https://link.springer.com/article/10.1007/s10664-022-10131-8`.

Hermans:2021:TTE

[Her21] Felienne Hermans. Two things every Java developer should know. *IEEE Software*, 38(6):110–112, November/December 2021. CODEN IESOEG. ISSN 0740-7459 (print), 1937-4194 (electronic).

Hoeflich:2022:HIK

[HFS22] Joshua Hoeflich, Robert Bruce Findler, and Manuel Serrano. Highly illogical, Kirk: spotting type mismatches in the large despite broken contracts, unsound types, and too many linters. *Proceedings of the ACM on Programming Languages (PACMPL)*, 6 (OOPSLA2):142:1–142:??, October 2022. CODEN ???? ISSN 2475-1421 (electronic). URL `https://dl.acm.org/doi/10.1145/3563305`.

Huang:2025:TIP

[HHCZ25] Yuan Huang, Jinbo Huang, Xiangping Chen, and Zibin Zheng. Towards improving the performance of comment generation models by using bytecode information. *IEEE Transactions on Software Engineering*, 51(2):503–520, February 2025. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Higo:2020:TJM

[HHK20] Yoshiki Higo, Shinpei Hayashi, and Shinji Kusumoto. On tracking Java methods with Git mechanisms. *The Journal of Systems and Software*, 165(??):??, July 2020. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0164121220300522`.

Hickey:2020:HC

[Hic20] Rich Hickey. A history of Clojure. *Proceedings of the ACM on Programming Languages (PACMPL)*, 4(HOPL):71:1–71:46, June 2020. URL `https://dl.acm.org/doi/abs/10.1145/3386321`.

Harlander:2020:F

[HKL20] R. V. Harlander, S. Y. Klein, and M. Lipp. FeynGame. *Computer Physics Communications*,

256(??):Article 107465, November 2020. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0010465520302186.

Hwang:2024:ESJ

[HLR24] Sungjae Hwang, Sungho Lee, and Sukyoung Ryu. An empirical study of JVMs' behaviors on erroneous JNI interoperations. *IEEE Transactions on Software Engineering*, 50(4): 979–994, April 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

He:2023:IBC

[HLX23] Dongjie He, Jingbo Lu, and Jingling Xue. IFDS-based context debloating for object-sensitive pointer analysis. *ACM Transactions on Software Engineering and Methodology*, 32(4): 101:1–101:??, July 2023. CODEN ATSMER. ISSN 1049-331X (print), 1557-7392 (electronic). URL https://dl.acm.org/doi/10.1145/3579641.

Huang:2021:JMJ

[HLZ+21] Yunhua Huang, Tao Li, Lijia Zhang, Beibei Li, and Xiaojie Liu. JSContana: Malicious JavaScript detection using adaptable context analysis and key feature extraction. *Computers & Security*, 104(??): Article 102218, May 2021. CODEN CPSEDU. ISSN 0167-4048 (print), 1872-6208 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0167404821000420.

Hora:2020:CME

[HR20] Andre Hora and Romain Robbes. Characteristics of method extractions in Java: a large scale empirical study. *Empirical Software Engineering*, 25(3):1798–1833, May 2020. CODEN ESENFW. ISSN 1382-3256 (print), 1573-7616 (electronic). URL http://link.springer.com/article/10.1007/s10664-020-09809-8.

Huang:2022:HSA

[HSF+22] Zijie Huang, Zhiqing Shao, Guisheng Fan, Huiqun Yu, Kang Yang, and Ziyi Zhou. HB-Sniff: a static analysis tool for Java Hibernate object-relational mapping code smell detection. *Science of Computer Programming*, 217(??):??, May 1, 2022. CODEN SCPGD4. ISSN 0167-6423 (print), 1872-7964 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0167642322000119.

Harrand:2020:JDD

[HSVMB20] Nicolas Harrand, César Soto-Valero, Martin Monperrus, and Benoit Baudry. Java decompiler diversity and its application to meta-decompilation. *The Journal of Systems and Software*, 168(??):??, October 2020. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic). URL http://www.

sciencedirect.com/science/article/pii/S0164121220301151.

Hasan:2024:RAB

[HTA24] Mohammed Tayeeb Hasan, Nikolaos Tsantalis, and Pouria Alikhanifard. Refactoring-aware block tracking in commit history. *IEEE Transactions on Software Engineering*, 50(12): 3330–3350, December 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Hartley:2022:JTC

[HZN+22] Tim Hartley, Foivos S. Zakkak, Andy Nisbet, Christos Kotselidis, and Mikel Luján. Just-in-time compilation on ARM — a closer look at call-site code consistency. *ACM Transactions on Architecture and Code Optimization*, 19(4):54:1–54:??, December 2022. CODEN ???? ISSN 1544-3566 (print), 1544-3973 (electronic). URL https://dl.acm.org/doi/10.1145/3546568.

Jafari:2022:DSJ

[JCA+22] Abbas Javan Jafari, Diego Elias Costa, Rabe Abdalkareem, Emad Shihab, and Nikolaos Tsantalis. Dependency smells in JavaScript projects. *IEEE Transactions on Software Engineering*, 48(10):3790–3807, October 2022. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Jung:2021:TPI

[JGSG+21] Kumseok Jung, Julien Gascon-Samson, Shivanshu Goyal, Armin Rezaiean-Asel, and Karthik Pattabiraman. ThingsMigrate: Platform-independent migration of stateful JavaScript Internet of Things applications. *Software—Practice and Experience*, 51(1):117–155, January 2021. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Jiang:2020:SSI

[JQZ20] Lin Jiang, Junqiao Qiu, and Zhijia Zhao. Scalable structural index construction for JSON analytics. *Proceedings of the VLDB Endowment*, 14(4):694–707, December 2020. CODEN ???? ISSN 2150-8097. URL https://dl.acm.org/doi/10.14778/3436905.3436926.

Juge:2024:ASS

[Jug24] Vincent Jugé. Adaptive shivers sort: an alternative sorting algorithm. *ACM Transactions on Algorithms*, 20(4): 31:1–31:55, October 2024. CODEN ???? ISSN 1549-6325 (print), 1549-6333 (electronic). URL https://dl.acm.org/doi/10.1145/3664195.

Karmakar:2023:JEJ

[KAR23] Anjan Karmakar, Miltiadis Allamanis, and Romain Robbes. JEMMA: an extensible Java dataset for ML4Code applications. *Empirical Software*

Engineering, 28(2):??, March 2023. CODEN ESENFW. ISSN 1382-3256 (print), 1573-7616 (electronic). URL https://link.springer.com/article/10.1007/s10664-022-10275-7.

Kan:2024:CLT

[KGZS24] Shuangxiang Kan, Yuhao Gao, Zexin Zhong, and Yulei Sui. Cross-language taint analysis: Generating caller-sensitive native code specification for Java. *IEEE Transactions on Software Engineering*, 50(6):1518–1533, June 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

King:2020:HGP

[Kin20] Paul King. A history of the Groovy programming language. *Proceedings of the ACM on Programming Languages (PACMPL)*, 4(HOPL):76:1–76:53, June 2020. URL https://dl.acm.org/doi/abs/10.1145/3386326.

Kechagia:2022:EAP

[KMSH22] Maria Kechagia, Sergey Mechtaev, Federica Sarro, and Mark Harman. Evaluating automatic program repair capabilities to repair API misuses. *IEEE Transactions on Software Engineering*, 48(7):2658–2679, July 2022. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Krasanakis:2023:JGN

[KPK23] Emmanouil Krasanakis, Symeon Papadopoulos, and Ioannis Kompatsiaris. JGNN: Graph Neural Networks on native Java. *SoftwareX*, 23(??):??, July 2023. CODEN ???? ISSN 2352-7110. URL http://www.sciencedirect.com/science/article/pii/S2352711023001553.

Khatchadourian:2020:SAR

[KTB20] Raffi Khatchadourian, Yiming Tang, and Mehdi Bagherzadeh. Safe automated refactoring for intelligent parallelization of Java 8 streams. *Science of Computer Programming*, 195(??):??, September 1, 2020. CODEN SCPGD4. ISSN 0167-6423 (print), 1872-7964 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0167642320300861.

Karim:2020:PID

[KTSS20] R. Karim, F. Tip, A. Sochrková, and K. Sen. Platform-independent dynamic taint analysis for JavaScript. *IEEE Transactions on Software Engineering*, 46(12):1364–1379, December 2020. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Kang:2024:EDL

[KYAY24] Sungmin Kang, Juyeon Yoon, Nargiz Askarbekkyzy, and Shin Yoo. Evaluating diverse large language models for automatic and general bug reproduction.

IEEE Transactions on Software Engineering, 50(10):2677–2694, October 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Kohler:2025:CLF

[KZWS25] Mirko Köhler, George Zakhour, Pascal Weisenburger, and Guido Salvaneschi. Consistent local-first software: Enforcing safety and invariants for local-first applications. *IEEE Transactions on Software Engineering*, 51(1): 53–65, January 2025. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Larsen:2023:PSS

[LFBM23] Simon Larsén, Jean-Rémy Falleri, Benoit Baudry, and Martin Monperrus. `Spork`: Structured merge for Java with formatting preservation. *IEEE Transactions on Software Engineering*, 49(1):64–83, January 2023. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Liu:2023:MEX

[LFHX23] Zhonglin Liu, Yong Fang, Cheng Huang, and Yijia Xu. MFXSS: an effective XSS vulnerability detection method in JavaScript based on multi-feature model. *Computers & Security*, 124 (??):??, January 2023. CODEN CPSEDU. ISSN 0167-4048 (print), 1872-6208 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0167404822004072`.

Liu:2022:SFI

[LH22] Bozhen Liu and Jeff Huang. SHARP: fast incremental context-sensitive pointer analysis for Java. *Proceedings of the ACM on Programming Languages (PACMPL)*, 6(OOPSLA1):88:1–88:28, April 2022. CODEN ???? ISSN 2475-1421 (electronic). URL `https://dl.acm.org/doi/10.1145/3527332`.

Labijak-Kowalska:2024:RJL

[LKK24] Anna Labijak-Kowalska and Miłosz Kadziński. `robustDEA`: a Java library for robust efficiency analysis. *SoftwareX*, 26(??):??, May 2024. CODEN ???? ISSN 2352-7110. URL `http://www.sciencedirect.com/science/article/pii/S2352711024001201`.

Liu:2024:ESC

[LMC24] Wei Liu, Shouvick Mondal, and Tse-Hsun (Peter) Chen. An empirical study on the characteristics of database access bugs in Java applications. *ACM Transactions on Software Engineering and Methodology*, 33(7):181:1–181:??, September 2024. CODEN ATSMER. ISSN 1049-331X (print), 1557-7392 (electronic). URL `https://dl.acm.org/doi/10.1145/3672449`.

Liu:2021:SDC

[LMM21] Lun Liu, Todd Millstein, and Madanlal Musuvathi. Safe-by-default concurrency for modern programming languages. *ACM Transactions on Programming*

Languages and Systems, 43(3): 10:1–10:50, September 2021. CODEN ATPSDT. ISSN 0164-0925 (print), 1558-4593 (electronic). URL `https://dl.acm.org/doi/10.1145/3462206`.

Li:2024:GSG

[LTL+24] Haofeng Li, Tian Tan, Yue Li, Jie Lu, Haining Meng, Liqing Cao, Yongheng Huang, Lian Li, Lin Gao, Peng Di, Liang Lin, and ChenXi Cui. Generic sensitivity: Generics-guided context sensitivity for pointer analysis. *IEEE Transactions on Software Engineering*, 50(5):1144–1162, May 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Laaber:2024:ESB

[LYA24] Christoph Laaber, Tao Yue, and Shaukat Ali. Evaluating search-based software microbenchmark prioritization. *IEEE Transactions on Software Engineering*, 50(7):1687–1703, July 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Misu:2024:SJB

[MAL24] Md Rakib Hossain Misu, Rohan Achar, and Cristina V. Lopes. SourcererJBF: a Java build framework for large-scale compilation. *ACM Transactions on Software Engineering and Methodology*, 33(3): 71:1–71:??, March 2024. CODEN ATSMER. ISSN 1049-331X (print), 1557-7392 (electronic). URL `https://dl.acm.org/doi/10.1145/3635710`.

Maes-Bermejo:2024:TPC

[MBGG+24] Michel Maes-Bermejo, Micael Gallego, Francisco Gortázar, Gregorio Robles, and Jesus M. Gonzalez-Barahona. Testing the past: can we still run tests in past snapshots for Java projects? *Empirical Software Engineering*, 29(5): ??, September 2024. CODEN ESENFW. ISSN 1382-3256 (print), 1573-7616 (electronic). URL `https://link.springer.com/article/10.1007/s10664-024-10530-z`.

Mariano:2022:ATI

[MCF+22] Benjamin Mariano, Yanju Chen, Yu Feng, Greg Durrett, and Isil Dillig. Automated transpilation of imperative to functional code using neural-guided program synthesis. *Proceedings of the ACM on Programming Languages (PACMPL)*, 6 (OOPSLA1):71:1–71:27, April 2022. CODEN ???? ISSN 2475-1421 (electronic). URL `https://dl.acm.org/doi/10.1145/3527315`.

Martins:2024:DTS

[MCM24] Luana Martins, Heitor Costa, and Ivan Machado. On the diffusion of test smells and their relationship with test code quality of Java projects. *Journal of Software: Evolution and Process*, 36(4):e2532:1–e2532:??,

April 2024. CODEN ???? ISSN 2047-7473 (print), 2047-7481 (electronic).

Michail:2020:JJL

[MKNS20] Dimitrios Michail, Joris Kinable, Barak Naveh, and John V. Sichi. JGraphT — a Java library for graph data structures and algorithms. *ACM Transactions on Mathematical Software*, 46(2): 16:1–16:29, June 2020. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic). URL `https://dl.acm.org/doi/abs/10.1145/3381449`.

Moseler:2021:DFC

[MLBD21] Oliver Moseler, Felix Lemmer, Sebastian Baltes, and Stephan Diehl. On the diversity and frequency of code related to mathematical formulas in real-world Java projects. *The Journal of Systems and Software*, 172 (??):??, February 2021. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0164121220302533`.

Martinez:2022:WDD

[MM22] Matias Martinez and Bruno Gois Mateus. Why did developers migrate Android applications from Java to Kotlin? *IEEE Transactions on Software Engineering*, 48(11):4521–4534, November 2022. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Malavolta:2023:JDC

[MNS+23] Ivano Malavolta, Kishan Nirghin, Gian Luca Scoccia, Simone Romano, Salvatore Lombardi, Giuseppe Scanniello, and Patricia Lago. JavaScript dead code identification, elimination, and empirical assessment. *IEEE Transactions on Software Engineering*, 49(7):3692–3714, July 2023. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Moller:2020:DLJ

[MNT20] Anders Møller, Benjamin Barslev Nielsen, and Martin Toldam Torp. Detecting locations in JavaScript programs affected by breaking library changes. *Proceedings of the ACM on Programming Languages (PACMPL)*, 4(OOPSLA): 187:1–187:25, November 2020. URL `https://dl.acm.org/doi/10.1145/3428255`.

Moraes:2021:OHM

[MPW+21] João Pedro Moraes, Ivanilton Polato, Igor Wiese, Filipe Saraiva, and Gustavo Pinto. From one to hundreds: multilicensing in the JavaScript ecosystem. *Empirical Software Engineering*, 26(3):??, May 2021. CODEN ESENFW. ISSN 1382-3256 (print), 1573-7616 (electronic). URL `http://link.springer.com/article/10.1007/s10664-020-09936-2`.

Mumtaz:2023:IRO

[MSB23] Haris Mumtaz, Paramvir Singh, and Kelly Blincoe. Identifying refactoring opportunities for large packages by analyzing maintainability characteristics in Java OSS. *The Journal of Systems and Software*, 202(??):??, August 2023. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0164121223001127`.

Mahmoudi:2023:OSW

[MSDP23] Amin Mahmoudi, Mahsa Sadeghi, Xiaopeng Deng, and Pengcheng Pan. `OPA Solver`: a web-based software for Ordinal Priority Approach in multiple criteria decision analysis using JavaScript. *SoftwareX*, 24 (??):??, December 2023. CODEN ???? ISSN 2352-7110. URL `http://www.sciencedirect.com/science/article/pii/S235271102300242X`.

Murawski:2021:GSI

[MT21] Andrzej S. Murawski and Nikos Tzevelekos. Game semantics for interface middleweight Java. *Journal of the ACM*, 68(1): 4:1–4:51, February 2021. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735X (electronic). URL `https://dl.acm.org/doi/10.1145/3428676`.

Midolo:2023:ATS

[MT23] Alessandro Midolo, , and Emiliano Tramontana. An automatic transformer from sequential to parallel Java code. *Future Internet*, 15(9):306, September 08, 2023. CODEN ???? ISSN 1999-5903. URL `https://www.mdpi.com/1999-5903/15/9/306`.

Moller:2020:EAO

[MV20] Anders Møller and Oskar Haarklou Veileborg. Eliminating abstraction overhead of Java stream pipelines using ahead-of-time program optimization. *Proceedings of the ACM on Programming Languages (PACMPL)*, 4 (OOPSLA):168:1–168:29, November 2020. URL `https://dl.acm.org/doi/10.1145/3428236`.

Naseer:2023:JCF

[NB23] Usama Naseer and Theophilus A. Benson. JS capsules: a framework for capturing fine-grained JavaScript memory measurements for the mobile Web. *Proceedings of the ACM on Measurement and Analysis of Computing Systems (POMACS)*, 7(1):14:1–14:??, March 2023. CODEN ???? ISSN 2476-1249. URL `https://dl.acm.org/doi/10.1145/3579327`.

Ntantogian:2021:NNJ

[NBA+21] Christoforos Ntantogian, Panagiotis Bountakas, Dimitris Antonaropoulos, Constantinos Patsakis, and Christos Xenakis. NodeXP: NOde.js server-side JavaScript injection vulnerability DEtection and eXPloitation. *Journal of Infor-*

mation Security and Applications (JISA), 58(??):??, May 2021. CODEN ???? ISSN 2214-2126. URL http://www.sciencedirect.com/science/article/pii/S221421262100003X.

Nascimento:2022:JAD

[NFH22] Romulo Nascimento, Eduardo Figueiredo, and Andre Hora. JavaScript API deprecation landscape: a survey and mining study. *IEEE Software*, 39(3): 96–105, May/June 2022. CODEN IESOEG. ISSN 0740-7459 (print), 1937-4194 (electronic).

Nowicki:2023:PEJ

[NGB23] Marek Nowicki, Lukasz Górski, and Piotr Bała. Performance evaluation of Java/PCJ implementation of parallel algorithms on the cloud (extended version). *Concurrency and Computation: Practice and Experience*, 35(15): e6536:1–e6536:??, July 10, 2023. CODEN CCPEBO. ISSN 1532-0626 (print), 1532-0634 (electronic).

Nicolini:2024:UNJb

[NHF24] Thiago Nicolini, Andre Hora, and Eduardo Figueiredo. On the usage of new JavaScript features through transpilers: The Babel case. *IEEE Software*, 41(1):105–112, January/February 2024. CODEN IESOEG. ISSN 0740-7459 (print), 1937-4194 (electronic).

Nigro:2022:PPK

[Nig22] Libero Nigro. Performance of parallel K-means algorithms in Java. *Algorithms (Basel)*, 15(4), April 2022. CODEN ALGOCH. ISSN 1999-4893 (electronic). URL https://www.mdpi.com/1999-4893/15/4/117.

Narechania:2025:PLU

[NOEAE25] Arpit Narechania, Kaustubh Odak, Mennatallah El-Assady, and Alex Endert. ProvenanceWidgets: a library of UI control elements to track and dynamically overlay analytic provenance. *IEEE Transactions on Visualization and Computer Graphics*, 31(1):1235–1245, January 2025. CODEN ITVGEA. ISSN 1077-2626.

Nie:2020:UEI

[NPZ+20] Pengyu Nie, Marinela Parovic, Zhiqiang Zang, Sarfraz Khurshid, Aleksandar Milicevic, and Milos Gligoric. Unifying execution of imperative generators and declarative specifications. *Proceedings of the ACM on Programming Languages (PACMPL)*, 4 (OOPSLA):217:1–217:26, November 2020. URL https://dl.acm.org/doi/10.1145/3428285.

Ni:2022:JTD

[NXL+22] Chao Ni, Xin Xia, David Lo, Xiaohu Yang, and Ahmed E. Hassan. Just-in-time defect prediction on JavaScript projects: a replication study. *ACM*

Transactions on Software Engineering and Methodology, 31(4): 76:1–76:??, October 2022. CODEN ATSMER. ISSN 1049-331X (print), 1557-7392 (electronic). URL `https://dl.acm.org/doi/10.1145/3508479`.

Ortin:2020:HTS

[ORPPG20] Francisco Ortin, Oscar Rodriguez-Prieto, Nicolas Pascual, and Miguel Garcia. Heterogeneous tree structure classification to label Java programmers according to their expertise level. *Future Generation Computer Systems*, 105(??):380–394, April 2020. CODEN FGSEVI. ISSN 0167-739X (print), 1872-7115 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0167739X1931516X`.

Pizzolotto:2024:MDB

[PBC24] Davide Pizzolotto, Stefano Berlato, and Mariano Ceccato. Mitigating debugger-based attacks to Java applications with self-debugging. *ACM Transactions on Software Engineering and Methodology*, 33(4): 107:1–107:??, May 2024. CODEN ATSMER. ISSN 1049-331X (print), 1557-7392 (electronic). URL `https://dl.acm.org/doi/10.1145/3631971`.

P:2021:FSM

[PJJM21] Jevitha K. P., Swaminathan Jayaraman, Bharat Jayaraman, and Sethumadhavan M. Finite-state model extraction and visualization from Java program execution. *Software—Practice and Experience*, 51(2):409–437, February 2021. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Park:2023:DCC

[PKB23] Hyukwoo Park, Seonghyun Kim, and Boram Bae. Dynamic code compression for JavaScript engine. *Software—Practice and Experience*, 53(5): 1196–1217, May 2023. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Perez:2020:OPN

[PNM+20] Taciano D. Perez, Marcelo V. Neves, Diego Medaglia, Pedro H. G. Monteiro, and César A. F. De Rose. Orthogonal persistence in nonvolatile memory architectures: a persistent heap design and its implementation for a Java Virtual Machine. *Software—Practice and Experience*, 50(4):368–387, April 2020. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Pinheiro:2020:MCA

[PVR+20] Pedro Pinheiro, José Carlos Viana, Márcio Ribeiro, Leo Fernandes, Fabiano Ferrari, Rohit Gheyi, and Baldoino Fonseca. Mutating code annotations: an empirical evaluation on Java and C# programs. *Science of Computer Programming*, 191(??):??, June 1, 2020. CODEN SCPGD4. ISSN 0167-6423 (print), 1872-7964 (elec-

tronic). URL http://www.sciencedirect.com/science/article/pii/S0167642320300290.

Palma:2025:FSH

[PWSG25] Marco Edoardo Palma, Alex Wolf, Pasquale Salza, and Harald C. Gall. On-the-fly syntax highlighting: Generalisation and speed-ups. *IEEE Transactions on Software Engineering*, 51(2):355–370, February 2025. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Ramsey:2022:BRR

[Ram22] Norman Ramsey. Beyond relooper: recursive translation of unstructured control flow to structured control flow (functional pearl). *Proceedings of the ACM on Programming Languages (PACMPL)*, 6(ICFP): 90:1–90:??, August 2022. CODEN ???? ISSN 2475-1421 (electronic). URL https://dl.acm.org/doi/10.1145/3547621.

Rosales:2023:LSC

[RBRB23] Eduardo Rosales, Matteo Basso, Andrea Rosà, and Walter Binder. Large-scale characterization of Java streams. *Software—Practice and Experience*, 53 (9):1763–1792, September 2023. CODEN SPEXBL. ISSN 0038-0644 (print), 1097-024X (electronic).

Robillard:2020:LLW

[RK20] M. P. Robillard and K. Kutschera. Lessons learned while migrating from Swing to JavaFX. *IEEE Software*, 37(3):78–85, May/June 2020. CODEN IESOEG. ISSN 0740-7459 (print), 1937-4194 (electronic).

Romano:2020:WVT

[RW20] A. Romano and W. Wang. WasmView: Visual testing for WebAssembly applications. In *2020 IEEE/ACM 42nd International Conference on Software Engineering: Companion Proceedings (ICSE-Companion)*, pages 13–16. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 2020. URL https://ieeexplore.ieee.org/document/9270402.

Sultana:2021:USM

[SAC21] Kazi Zakia Sultana, Vaibhav Anu, and Tai-Yin Chong. Using software metrics for predicting vulnerable classes and methods in Java projects: a machine learning approach. *Journal of Software: Evolution and Process*, 33(3):e2303:1–e2303:??, March 2021. CODEN ???? ISSN 2047-7473 (print), 2047-7481 (electronic).

Sayar:2023:DSJ

[SBBL23] Imen Sayar, Alexandre Bartel, Eric Bodden, and Yves Le Traon. An in-depth study of Java deserialization remote-code execution exploits and vulnerabilities. *ACM Transactions on Software Engineering and Methodology*, 32(1):25:1–

25:??, January 2023. CODEN ATSMER. ISSN 1049-331X (print), 1557-7392 (electronic). URL https://dl.acm.org/doi/10.1145/3554732.

Seth:2025:CEE

[SBW25] Aishwarya Seth, Saikath Bhattacharya, and Laurie Williams. Comparing effectiveness and efficiency of Interactive Application Security Testing (IAST) and Runtime Application Self-Protection (RASP) tools in a large Java-based system. *Empirical Software Engineering*, 30(3):??, May 2025. CODEN ESENFW. ISSN 1382-3256 (print), 1573-7616 (electronic). URL https://link.springer.com/article/10.1007/s10664-025-10621-5.

Song:2025:OCS

[SDT+25] Leo Song, Steven H. H. Ding, Yuan Tian, Li Tao Li, Weihan Ou, Philippe Charland, and Andrew Walenstein. Obfuscated clone search in JavaScript based on reinforcement subsequence learning. *ACM Transactions on Software Engineering and Methodology*, 34(6):160:1–160:??, July 2025. CODEN ATSMER. ISSN 1049-331X (print), 1557-7392 (electronic).

Silva:2024:ECR

[SGG+24] Denini Silva, Martin Gruber, Satyajit Gokhale, Ellen Arteca, Alexi Turcotte, Marcelo d'Amorim, Wing Lam, Stefan Winter, and Jonathan Bell. The effects of computational resources on flaky tests. *IEEE Transactions on Software Engineering*, 50(12):3104–3121, December 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Shen:2023:CSM

[SGHM23] Bowen Shen, Muhammad Ali Gulzar, Fei He, and Na Meng. A characterization study of merge conflicts in Java projects. *ACM Transactions on Software Engineering and Methodology*, 32(2):40:1–40:??, April 2023. CODEN ATSMER. ISSN 1049-331X (print), 1557-7392 (electronic). URL https://dl.acm.org/doi/10.1145/3546944.

Shimari:2021:NNO

[SIK+21] Kazumasa Shimari, Takashi Ishio, Tetsuya Kanda, Naoto Ishida, and Katsuro Inoue. NOD4J: Near-omniscient debugging tool for Java using size-limited execution trace. *Science of Computer Programming*, 206(??):??, June 1, 2021. CODEN SCPGD4. ISSN 0167-6423 (print), 1872-7964 (electronic). URL http://www.sciencedirect.com/science/article/pii/S016764232100023X.

Sherman:2023:JPW

[SNA+23] Elena Sherman, Yannic Noller, Cyrille Artho, Franck van Breugel, Anto Nanah Ji, John Kellerman, Parssa Khazra, Filip Kliber, Gaurang Kudale, Pavel Parízek, Corina S. Pasareanu,

Ron Pressler, Matt Walker, Hongru Wang, and Qiuchen Yan. The Java Pathfinder Workshop 2022. *ACM SIGSOFT Software Engineering Notes*, 48(1):19–21, January 2023. CODEN SFENDP. ISSN 0163-5948 (print), 1943-5843 (electronic). URL `https://dl.acm.org/doi/10.1145/3573074.3573080`.

Sanchez:2024:MTP

[SPS+24] Ana B. Sánchez, José A. Parejo, Sergio Segura, Amador Durán, and Mike Papadakis. Mutation testing in practice: Insights from open-source software developers. *IEEE Transactions on Software Engineering*, 50(5): 1130–1143, May 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Schneider:2023:AES

[SS23a] Simon Schneider and Riccardo Scandariato. Automatic extraction of security-rich dataflow diagrams for microservice applications written in Java. *The Journal of Systems and Software*, 202(??):??, August 2023. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0164121223001176`.

Silva:2023:EHL

[SS23b] Rui S. Silva and João L. Sobral. Efficient high-level programming in plain Java. *International Journal of Parallel Programming*, 51(1):22–42, February 2023. CODEN IJPPE5. ISSN 0885-7458 (print), 1573-7640 (electronic). URL `https://link.springer.com/article/10.1007/s10766-022-00747-0`.

Sasikumar:2022:CAD

[SV22] K. Sasikumar and B. Vijayakumar. Comparative analysis of different data replication strategies in cloud environment. *International Journal of Image and Graphics (IJIG)*, 22 (05):??, October 2022. ISSN 0219-4678. URL `https://www.worldscientific.com/doi/10.1142/S0219467822500425`.

Soto-Valero:2023:CBD

[SVDHB23] César Soto-Valero, Thomas Durieux, Nicolas Harrand, and Benoit Baudry. Coverage-based debloating for Java bytecode. *ACM Transactions on Software Engineering and Methodology*, 32(2):38:1–38:??, April 2023. CODEN ATSMER. ISSN 1049-331X (print), 1557-7392 (electronic). URL `https://dl.acm.org/doi/10.1145/3546948`.

Soto-Valero:2023:AST

[SVTTB23] César Soto-Valero, Deepika Tiwari, Tim Toady, and Benoit Baudry. Automatic specialization of third-party Java dependencies. *IEEE Transactions on Software Engineering*, 49(11):5027–5045, November 2023. CODEN IESEDJ.

ISSN 0098-5589 (print), 1939-3520 (electronic).

Turcotte:2022:SDD

[TAM+22] Alexi Turcotte, Ellen Arteca, Ashish Mishra, Saba Alimadadi, and Frank Tip. Stubbifier: debloating dynamic server-side JavaScript applications. *Empirical Software Engineering*, 27(7):??, December 2022. CODEN ESENFW. ISSN 1382-3256 (print), 1573-7616 (electronic). URL `https://link.springer.com/article/10.1007/s10664-022-10195-6`.

Tomasdottir:2020:AJL

[TAV20] K. F. Tómasdóttir, M. Aniche, and A. Van Deursen. The adoption of JavaScript linters in practice: A case study on ESLint. *IEEE Transactions on Software Engineering*, 46(8):863–891, 2020. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Traini:2023:TEA

[TCDT23] Luca Traini, Vittorio Cortellessa, Daniele Di Pompeo, and Michele Tucci. Towards effective assessment of steady state performance in Java software: are we there yet? *Empirical Software Engineering*, 28(1):??, January 2023. CODEN ESENFW. ISSN 1382-3256 (print), 1573-7616 (electronic). URL `https://link.springer.com/article/10.1007/s10664-022-10247-x`.

Trautsch:2020:UIT

[THG20] Fabian Trautsch, Steffen Herbold, and Jens Grabowski. Are unit and integration test definitions still valid for modern Java projects? An empirical study on open-source projects. *The Journal of Systems and Software*, 159(??):??, January 2020. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0164121219301955`.

Troussas:2025:RLB

[TKMS25] Christos Troussas, Akrivi Krouska, Phivos Mylonas, and Cleo Sgouropoulou. Reinforcement learning-based dynamic fuzzy weight adjustment for adaptive user interfaces in educational software. *Future Internet*, 17(4):166, April 9, 2025. CODEN ???? ISSN 1999-5903. URL `https://www.mdpi.com/1999-5903/17/4/166`.

Tiwari:2024:MPB

[TMB24] Deepika Tiwari, Martin Monperrus, and Benoit Baudry. Mimicking production behavior with generated mocks. *IEEE Transactions on Software Engineering*, 50(11):2921–2946, November 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Toledo:2024:AUF

[Tol24] Sivan Toledo. Algorithm 1051: UltimateKalman, flexible

Kalman filtering and smoothing using orthogonal transformations. *ACM Transactions on Mathematical Software*, 50 (4):27:1–27:??, December 2024. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic). URL `https://dl.acm.org/doi/10.1145/3699958`.

Torres:2023:ICC

[TOO+23] Adriano Torres, Caio Oliveira, Márcio Okimoto, Diego Marcílio, Pedro Queiroga, Fernando Castor, Rodrigo Bonifácio, Edna Dias Canedo, Márcio Ribeiro, and Eduardo Monteiro. An investigation of confusing code patterns in JavaScript. *The Journal of Systems and Software*, 203(??):??, September 2023. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0164121223001267`.

Trubiani:2023:ADS

[TPBF23] Catia Trubiani, Riccardo Pinciroli, Andrea Biaggi, and Francesca Arcelli Fontana. Automated detection of software performance antipatterns in Java-based applications. *IEEE Transactions on Software Engineering*, 49(4):2873–2891, April 2023. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Thome:2020:IAE

[TSBB20] J. Thomé, L. K. Shar, D. Bianculli, and L. Briand. An integrated approach for effective injection vulnerability analysis of Web applications through security slicing and hybrid constraint solving. *IEEE Transactions on Software Engineering*, 46(2):163–195, February 2020. CODEN IESEDJ. ISSN 2326-3881.

Tang:2025:DCE

[TZL+25] Yixuan Tang, Jingxuan Zhang, Xiaochen Li, Zhiqiu Huang, and He Jiang. Detecting compiler error recovery defects via program mutation exploration. *IEEE Transactions on Software Engineering*, 51(2):389–412, February 2025. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

vanOorschot:2023:MEMb

[vO23] Paul C. van Oorschot. Memory errors and memory safety: a look at Java and Rust. *IEEE Security & Privacy*, 21(3):62–68, May/June 2023. ISSN 1540-7993 (print), 1558-4046 (electronic).

Wirfs-Brock:2020:JFY

[WBE20] Allen Wirfs-Brock and Brendan Eich. JavaScript: the first 20 years. *Proceedings of the ACM on Programming Languages (PACMPL)*, 4(HOPL):77:1–77:189, June 2020. URL `https://dl.acm.org/doi/abs/10.1145/3386327`.

Wijaya:2023:NJD

[WFD23] Agung Danu Wijaya, Dedy

Farhamsa, and Darmawati Darwis. netDFT: JAVA Density Functional Theory for solid. *SoftwareX*, 23(??):??, July 2023. CODEN ???? ISSN 2352-7110. URL http://www.sciencedirect.com/science/article/pii/S2352711023001413.

Wang:2025:ESB

[WFW25] Ziyuan Wang, Yun Fang, and Nannan Wang. An empirical study on bugs in TypeScript programming language. *The Journal of Systems and Software*, 226(??):??, August 2025. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic). URL https://www.sciencedirect.com/science/article/pii/S016412122500113X.

Wang:2023:SCJ

[WHP+23] Chao Wang, Hao He, Uma Pal, Darko Marinov, and Minghui Zhou. Suboptimal comments in Java projects: From independent comment changes to commenting practices. *ACM Transactions on Software Engineering and Methodology*, 32(2):45:1–45:??, April 2023. CODEN ATSMER. ISSN 1049-331X (print), 1557-7392 (electronic). URL https://dl.acm.org/doi/10.1145/3546949.

Walker:2023:JLF

[WKJ+23] Matt Walker, Parssa Khazra, Anto Nanah Ji, Hongru Wang, and Franck van Breugel. jpf-logic: a framework for checking temporal logic properties of Java code. *ACM SIGSOFT Software Engineering Notes*, 48(1):32–36, January 2023. CODEN SFENDP. ISSN 0163-5948 (print), 1943-5843 (electronic). URL https://dl.acm.org/doi/10.1145/3573074.3573083.

Wu:2024:TSF

[WLC+24] Mingyu Wu, Zhe Li, Haibo Chen, Binyu Zang, Shaojun Wang, Lei Yu, Sanhong Li, and Haitao Song. Toward an SGX-friendly Java runtime. *IEEE Transactions on Computers*, 73(1):44–57, January 2024. CODEN ITCOB4. ISSN 0018-9340 (print), 1557-9956 (electronic).

Wang:2025:IJM

[WLKZ25] Weidong Wang, Dian Li, Yujian Kang, and Yang Zhao. An intelligent Java method name recommendation framework via two-phase neural networks. *Empirical Software Engineering*, 30(1):??, January 2025. CODEN ESENFW. ISSN 1382-3256 (print), 1573-7616 (electronic). URL https://link.springer.com/article/10.1007/s10664-024-10574-1.

Wang:2022:WDC

[WWW+22] Ying Wang, Rongxin Wu, Chao Wang, Ming Wen, Yepang Liu, Shing-Chi Cheung, Hai Yu, Chang Xu, and Zhiliang Zhu. Will dependency conflicts affect my program's semantics? *IEEE Transactions on Software Engineering*, 48(7):2295–2316, July

2022. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Wang:2025:BEC

[WXG+25] Yicheng Wang, Lijie Xu, Tian Guo, Wensheng Dou, Hongbin Zeng, Wei Wang, Jun Wei, and Tao Huang. BridgeGC: an efficient cross-level garbage collector for big data frameworks. *ACM Transactions on Architecture and Code Optimization*, 22 (2):68:1–68:??, June 2025. CODEN ???? ISSN 1544-3566 (print), 1544-3973 (electronic).

Xu:2024:FJE

[XWJ+24] Haoran Xu, Yongjun Wang, Zhiyuan Jiang, Shuhui Fan, Shaojing Fu, and Peidai Xie. Fuzzing JavaScript engines with a syntax-aware neural program model. *Computers & Security*, 144(??):??, September 2024. CODEN CPSEDU. ISSN 0167-4048 (print), 1872-6208 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0167404824002529`.

Xue:2024:ACM

[XWY+24] Pengyu Xue, Linhao Wu, Zhongxing Yu, Zhi Jin, Zhen Yang, Xinyi Li, Zhenyu Yang, and Yue Tan. Automated commit message generation with large language models: an empirical study and beyond. *IEEE Transactions on Software Engineering*, 50(12):3208–3224, December 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Yan:2023:TWS

[YAP23] Qiuchen Yan, Cyrille Artho, and Pavel Parízek. Towards wider support for Java string functions. *ACM SIGSOFT Software Engineering Notes*, 48(1):37, January 2023. CODEN SFENDP. ISSN 0163-5948 (print), 1943-5843 (electronic). URL `https://dl.acm.org/doi/10.1145/3573074.3573084`.

Yuan:2020:AAR

[YB20] Y. Yuan and W. Banzhaf. ARJA: Automated repair of Java programs via multi-objective genetic programming. *IEEE Transactions on Software Engineering*, 46(10):1040–1067, October 2020. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Yu:2021:CUE

[YBSM21] Zhongxing Yu, Chenggang Bai, Lionel Seinturier, and Martin Monperrus. Characterizing the usage, evolution and impact of Java annotations in practice. *IEEE Transactions on Software Engineering*, 47(5):969–986, 2021. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Zozas:2023:FPC

[ZBA23] Ioannis Zozas, Stamatia Bibi, and Apostolos Ampatzoglou. Forecasting the principal of code

technical debt in JavaScript applications. *IEEE Transactions on Software Engineering*, 49(4): 2498–2512, April 2023. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Zhang:2024:DVT

[ZFC+24] Fangyuan Zhang, Lingling Fan, Sen Chen, Miaoying Cai, Sihan Xu, and Lida Zhao. Does the vulnerability threaten our projects? Automated vulnerable API detection for third-party libraries. *IEEE Transactions on Software Engineering*, 50(11):2906–2920, November 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Zhang:2023:ADJ

[ZKX+23] Ying Zhang, Md Mahir Asef Kabir, Ya Xiao, Danfeng Yao, and Na Meng. Automatic detection of Java cryptographic API misuses: Are we there yet? *IEEE Transactions on Software Engineering*, 49(1): 288–303, January 2023. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Zhong:2025:BCP

[ZLL+25] Wenkang Zhong, Chuanyi Li, Kui Liu, Jidong Ge, Bin Luo, Tegawendé F. Bissyandé, and Vincent Ng. Benchmarking and categorizing the performance of neural program repair systems for Java. *ACM Transactions on Software Engineering and Methodology*, 34(1): 11:1–11:??, January 2025. CODEN ATSMER. ISSN 1049-331X (print), 1557-7392 (electronic). URL `https://dl.acm.org/doi/10.1145/3688834`.

Zerouali:2021:UJP

[ZMD21] Ahmed Zerouali, Tom Mens, and Coen De Roover. On the usage of *javascript*, *Python* and *Ruby* packages in Docker Hub images. *Science of Computer Programming*, 207(??): ??, July 1, 2021. CODEN SCPGD4. ISSN 0167-6423 (print), 1872-7964 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0167642321000460`.

Zhou:2020:ADR

[ZWY+20] Y. Zhou, C. Wang, X. Yan, T. Chen, S. Panichella, and H. Gall. Automatic detection and repair recommendation of directive defects in Java API documentation. *IEEE Transactions on Software Engineering*, 46(9):1004–1023, September 2020. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Zhang:2023:RRB

[ZXX23] Qiang Zhang, Lei Xu, and Baowen Xu. RegCPython: a register-based Python interpreter for better performance. *ACM Transactions on Architecture and Code Optimization*, 20(1):14:1–14:??, March 2023. CODEN ???? ISSN 1544-3566 (print), 1544-3973 (elec-

tronic). URL https://dl.acm.org/doi/10.1145/3568973.

Zhang:2024:ARN

[ZXZ+24] Zejun Zhang, Zhenchang Xing, Dehai Zhao, Xiwei Xu, Liming Zhu, and Qinghua Lu. Automated refactoring of non-idiomatic Python code with Pythonic idioms. *IEEE Transactions on Software Engineering*, 50(11):2827–2848, November 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Zhuo:2020:TEP

[ZZ20] Xilong Zhuo and Chenyi Zhang. TFA: an efficient and precise virtual method call resolution for Java. *Formal Aspects of Computing*, 32(4–6):395–416, November 2020. CODEN FACME5. ISSN 0934-5043 (print), 1433-299X (electronic). URL https://link.springer.com/article/10.1007/s00165-020-00518-z.

Zhou:2023:RSA

[ZZdSO23] Litao Zhou, Yaoda Zhou, and Bruno C. d. S. Oliveira. Recursive subtyping for all. *Proceedings of the ACM on Programming Languages (PACMPL)*, 7(POPL):48:1–48:??, January 2023. CODEN ???? ISSN 2475-1421 (electronic). URL https://dl.acm.org/doi/10.1145/3571241.

Zhou:2024:CGS

[ZZF+24] Zhichao Zhou, Yuming Zhou, Chunrong Fang, Zhenyu Chen, Xiapu Luo, Jingzhu He, and Yutian Tang. Coverage goal selector for combining multiple criteria in search-based unit test generation. *IEEE Transactions on Software Engineering*, 50(4):854–883, April 2024. CODEN IESEDJ. ISSN 0098-5589 (print), 1939-3520 (electronic).

Zhao:2024:GJC

[ZZYD24] Zelong Zhao, Nan Zhang, Bin Yu, and Zhenhua Duan. Generating Java code pairing with ChatGPT. *Theoretical Computer Science*, 1021(??):??, December 21, 2024. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0304397524004961.