

Earl T Barr

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7550214/publications.pdf>

Version: 2024-02-01

47
papers

3,439
citations

840585

11
h-index

752573

20
g-index

47
all docs

47
docs citations

47
times ranked

1615
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Aide-mÃ©moire: Improving a Project's Collective Memory via Pull Request Issue Links. ACM Transactions on Software Engineering and Methodology, 2023, 32, 1-36. | 4.8 | 0 |
| 2 | The Assessor's Dilemma: Improving Bug Repair via Empirical Game Theory. IEEE Transactions on Software Engineering, 2021, 47, 2143-2161. | 4.3 | 7 |
| 3 | Today Was a Good Day: The Daily Life of Software Developers. IEEE Transactions on Software Engineering, 2021, 47, 863-880. | 4.3 | 39 |
| 4 | Getting Ahead of the Arms Race: Hothousing the Coevolution of VirusTotal with a Packer. Entropy, 2021, 23, 395. | 1.1 | 11 |
| 5 | Artefact Relation Graphs for Unit Test Reuse Recommendation. , 2021, , . | | 4 |
| 6 | Trident: Controlling Side Effects in Automated Program Repair. IEEE Transactions on Software Engineering, 2021, , 1-1. | 4.3 | 2 |
| 7 | Game-theoretic analysis of development practices: Challenges and opportunities. Journal of Systems and Software, 2020, 159, 110424. | 3.3 | 13 |
| 8 | Detecting Malware with Information Complexity. Entropy, 2020, 22, 575. | 1.1 | 6 |
| 9 | POSIT. , 2020, , . | | 5 |
| 10 | A Survey of Machine Learning for Big Code and Naturalness. ACM Computing Surveys, 2019, 51, 1-37. | 16.1 | 383 |
| 11 | Approximate Oracles and Synergy in Software Energy Search Spaces. IEEE Transactions on Software Engineering, 2019, 45, 1150-1169. | 4.3 | 19 |
| 12 | The arms race: Adversarial search defeats entropy used to detect malware. Expert Systems With Applications, 2019, 118, 246-260. | 4.4 | 27 |
| 13 | Deep learning type inference. , 2018, , . | | 100 |
| 14 | RefiNym: using names to refine types. , 2018, , . | | 17 |
| 15 | Darwinian data structure selection. , 2018, , . | | 14 |
| 16 | Making data-driven porting decisions with Tuscan. , 2018, , . | | 1 |
| 17 | Mining Semantic Loop Idioms. IEEE Transactions on Software Engineering, 2018, 44, 651-668. | 4.3 | 14 |
| 18 | Understanding the syntactic rule usage in java. Journal of Systems and Software, 2017, 123, 160-172. | 3.3 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | To Type or Not to Type: Quantifying Detectable Bugs in JavaScript. , 2017, , . | | 50 |
| 20 | Optimising Darwinian Data Structures on Google Guava. Lecture Notes in Computer Science, 2017, , 161-167. | 1.0 | 6 |
| 21 | Time-travel debugging for JavaScript/Node.js. , 2016, , . | | 19 |
| 22 | Casper: Automatic tracking of null dereferences to inception with causality traces. Journal of Systems and Software, 2016, 122, 52-62. | 3.3 | 4 |
| 23 | On the naturalness of software. Communications of the ACM, 2016, 59, 122-131. | 3.3 | 158 |
| 24 | Suggesting accurate method and class names. , 2015, , . | | 247 |
| 25 | Is the cure worse than the disease? overfitting in automated program repair. , 2015, , . | | 203 |
| 26 | The Oracle Problem in Software Testing: A Survey. IEEE Transactions on Software Engineering, 2015, 41, 507-525. | 4.3 | 608 |
| 27 | Automated software transplantation. , 2015, , . | | 90 |
| 28 | Automated Transplantation of Call Graph and Layout Features into Kate. Lecture Notes in Computer Science, 2015, , 262-268. | 1.0 | 17 |
| 29 | The plastic surgery hypothesis. , 2014, , . | | 136 |
| 30 | Tardis. , 2014, , . | | 16 |
| 31 | Learning natural coding conventions. , 2014, , . | | 250 |
| 32 | Capturing and Exploiting IDE Interactions. , 2014, , . | | 6 |
| 33 | Comparing static bug finders and statistical prediction. , 2014, , . | | 76 |
| 34 | Uncertainty, risk, and information value in software requirements and architecture. , 2014, , . | | 76 |
| 35 | Tardis. ACM SIGPLAN Notices, 2014, 49, 67-82. | 0.2 | 7 |
| 36 | What effect does Distributed Version Control have on OSS project organization?. , 2013, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Collecting a heap of shapes. , 2013, , . | | 4 |
| 38 | Automatic detection of floating-point exceptions. , 2013, , . | | 72 |
| 39 | Automatic detection of floating-point exceptions. ACM SIGPLAN Notices, 2013, 48, 549-560. | 0.2 | 19 |
| 40 | Reusing debugging knowledge via trace-based bug search. , 2012, , . | | 14 |
| 41 | Liberating the programmer with prorogued programming. , 2012, , . | | 6 |
| 42 | Reusing debugging knowledge via trace-based bug search. ACM SIGPLAN Notices, 2012, 47, 927-942. | 0.2 | 1 |
| 43 | On the naturalness of software. , 2012, , . | | 345 |
| 44 | Cohesive and Isolated Development with Branches. Lecture Notes in Computer Science, 2012, , 316-331. | 1.0 | 48 |
| 45 | BQL. , 2011, , . | | 3 |
| 46 | Has the bug really been fixed?. , 2010, , . | | 63 |
| 47 | The promises and perils of mining git. , 2009, , . | | 220 |