

# Pietro Ferrara

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52  
papers

294  
citations

10  
h-index

14  
g-index

55  
ext. papers

358  
ext. citations

0.9  
avg, IF

3.82  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 52 | A suite of abstract domains for static analysis of string values. <i>Software - Practice and Experience</i> , <b>2015</b> , 45, 245-287                    | 2.5 | 28        |
| 51 | SAILS <b>2012</b> ,  |     | 23        |
| 50 | Hybrid security analysis of web JavaScript code via dynamic partial evaluation <b>2014</b> ,   |     | 22        |
| 49 | Static Analysis of String Values. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 505-521   | 0.9 | 18        |
| 48 | A Survey on Product Operators in Abstract Interpretation. <i>Electronic Proceedings in Theoretical Computer Science</i> , <i>EPTCS</i> ,129, 325-336       |     | 14        |
| 47 | Datacentric Semantics for Verification of Privacy Policy Compliance by Mobile Applications. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 61-79 | 0.9 | 13        |
| 46 | Safer unsafe code for .NET <b>2008</b> ,   |     | 12        |
| 45 | Generic Combination of Heap and Value Analyses in Abstract Interpretation. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 302-321                | 0.9 | 11        |
| 44 | Static analysis for discovering IoT vulnerabilities. <i>International Journal on Software Tools for Technology Transfer</i> , <b>2021</b> , 23, 71-88      | 1.3 | 11        |
| 43 | MorphDroid <b>2015</b> ,   |     | 10        |
| 42 | Automatic Inference of Access Permissions. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 202-218  | 0.9 | 10        |
| 41 | TVAL+ : TVLA and Value Analyses Together. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 63-77   | 0.9 | 10        |
| 40 | Static analysis of Android Auto infotainment and on-board diagnostics II apps. <i>Software - Practice and Experience</i> , <b>2019</b> , 49, 1131          | 2.5 | 8         |
| 39 | Static Identification of Injection Attacks in Java. <i>ACM Transactions on Programming Languages and Systems</i> , <b>2019</b> , 41, 1-58                  | 1.6 | 8         |
| 38 | Static Type Analysis of Pattern Matching by Abstract Interpretation. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 186-200                      | 0.9 | 8         |
| 37 | Vulnerability analysis of Android auto infotainment apps <b>2018</b> ,   |     | 8         |
| 36 | Static Analysis Via Abstract Interpretation of the Happens-Before Memory Model <b>2008</b> , 116-133   |     | 7         |

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|----|---|-----|---|
| 35 | Privacy Analysis of Android Apps: Implicit Flows and Quantitative Analysis. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 3-23                     | 0.9 | 6 |
| 34 | Static analysis techniques for robotics software verification <b>2013</b> ,   |     | 6 |
| 33 | Tailoring Taint Analysis to GDPR. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 63-76  | 0.9 | 6 |
| 32 | Static analysis for independent app developers <b>2014</b> ,  |     | 5 |
| 31 | Checkmate: A Generic Static Analyzer of Java Multithreaded Programs <b>2009</b> ,   |     | 4 |
| 30 | Linear Approximation of Continuous Systems with Trapezoid Step Functions. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 98-114                     | 0.9 | 4 |
| 29 | DAPA: Degradation-Aware Privacy Analysis of Android Apps. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 32-46                                      | 0.9 | 4 |
| 28 | Automatic detection, correction, and visualization of security vulnerabilities in mobile apps <b>2015</b> ,   |     | 3 |
| 27 | Static Analysis of the Determinism of Multithreaded Programs <b>2008</b> ,  |     | 3 |
| 26 | (mathsf {BackFlow}): Backward Context-Sensitive Flow Reconstruction of Taint Analysis Results. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 23-43 | 0.9 | 3 |
| 25 | Automatic Inference of Heap Properties Exploiting Value Domains. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 393-411                             | 0.9 | 3 |
| 24 | The abstract domain of Trapezoid Step Functions. <i>Computer Languages, Systems and Structures</i> , <b>2015</b> , 43, 41-68                                  |     | 2 |
| 23 | From CIL to Java bytecode: Semantics-based translation for static analysis leveraging. <i>Science of Computer Programming</i> , <b>2020</b> , 191, 102392     | 1.1 | 2 |
| 22 | Combining Symbolic and Numerical Domains for Information Leakage Analysis. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 98-135                    | 0.9 | 2 |
| 21 | Cross-program taint analysis for IoT systems <b>2020</b> ,  |     | 2 |
| 20 | A generic framework for heap and value analyses of object-oriented programming languages. <i>Theoretical Computer Science</i> , <b>2016</b> , 631, 43-72      | 1.1 | 2 |
| 19 | Static Analysis of Android Apps Interaction with Automotive CAN. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 114-123                             | 0.9 | 2 |
| 18 | SDLI: Static Detection of Leaks Across Intents <b>2018</b> ,  |     | 2 |

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|----|---|-----|---|
| 17 | Twinning Automata and Regular Expressions for String Static Analysis. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 267-290                                      | 0.9 | 2 |
| 16 | Relational String Abstract Domains. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 20-42  | 0.9 | 1 |
| 15 | Intents Analysis of Android Apps for Confidentiality Leakage Detection. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 43-65                          | 0.4 | 1 |
| 14 | Certifying Decision Trees Against Evasion Attacks by Program Analysis. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 421-438                                     | 0.9 | 1 |
| 13 | Visual Configuration of Mobile Privacy Policies. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 338-355   | 0.9 | 1 |
| 12 | ShamDroid: gracefully degrading functionality in the presence of limited resource access <b>2015</b> ,  |     | 1 |
| 11 | Static analysis for dummies: experiencing LiSA <b>2021</b> ,  |     | 1 |
| 10 | FASE <b>2016</b> ,  |     | 1 |
| 9  | Pinpointing mobile malware using code analysis <b>2016</b> ,  |     | 1 |
| 8  | CIL to Java-bytecode translation for static analysis leveraging <b>2018</b> ,   |     | 1 |
| 7  | Static analysis for independent app developers. <i>ACM SIGPLAN Notices</i> , <b>2014</b> , 49, 847-860  | 0.2 | 0 |
| 6  | SARL: OO Framework Specification for Static Analysis. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 3-20   | 0.9 |   |
| 5  | Using Abstract Interpretation to Correct Synchronization Faults. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 187-208   | 0.9 |   |
| 4  | The Domain of Parametric Hypercubes for Static Analysis of Computer Games Software. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 447-463                        | 0.9 |   |
| 3  | TouchCost: Cost Analysis of TouchDevelop Scripts. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 109-124  | 0.9 |   |
| 2  | Static Privacy Analysis by Flow Reconstruction of Tainted Data. <i>International Journal of Software Engineering and Knowledge Engineering</i> , <b>2021</b> , 31, 973-1016 |     | 1 |
| 1  | Certifying machine learning models against evasion attacks by program analysis. <i>Journal of Computer Security</i> , <b>2022</b> , 1-28                                    | 0.8 |   |