

Atif Mashkoor

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.

54
papers

375
citations

10
h-index

16
g-index

63
ext. papers

488
ext. citations

1.1
avg, IF

4.41
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 54 | Software Safety and Security Risk Mitigation in Cyber-physical Systems. <i>IEEE Software</i> , 2018 , 35, 24-29 | 1.5 | 63 |
| 53 | The Hemodialysis Machine Case Study. <i>Lecture Notes in Computer Science</i> , 2016 , 329-343 | 0.9 | 19 |
| 52 | Asm2C++: A Tool for Code Generation from Abstract State Machines to Arduino. <i>Lecture Notes in Computer Science</i> , 2017 , 295-301 | 0.9 | 17 |
| 51 | Utilizing Event-B for domain engineering: a critical analysis. <i>Requirements Engineering</i> , 2011 , 16, 191-207 | 2.7 | 16 |
| 50 | Integrating formal methods into medical software development: The ASM approach. <i>Science of Computer Programming</i> , 2018 , 158, 148-167 | 1.1 | 14 |
| 49 | Formal validation and verification of a medical software critical component 2015 , | | 14 |
| 48 | Evaluating the suitability of state-based formal methods for industrial deployment. <i>Software - Practice and Experience</i> , 2018 , 48, 2350-2379 | 2.5 | 14 |
| 47 | Towards the Trustworthy Development of Active Medical Devices: A Hemodialysis Case Study. <i>IEEE Embedded Systems Letters</i> , 2016 , 8, 14-17 | 1 | 13 |
| 46 | Discovery and classification of user interests on social media. <i>Information Discovery and Delivery</i> , 2017 , 45, 130-138 | 1.4 | 12 |
| 45 | Improving the Understandability of Formal Specifications: An Experience Report. <i>Lecture Notes in Computer Science</i> , 2014 , 184-199 | 0.9 | 10 |
| 44 | Design and validation of a C++ code generator from Abstract State Machines specifications. <i>Journal of Software: Evolution and Process</i> , 2020 , 32, e2205 | 1 | 10 |
| 43 | 2018 , | | 9 |
| 42 | Incremental Construction of Realizable Choreographies. <i>Lecture Notes in Computer Science</i> , 2018 , 1-19 | 0.9 | 8 |
| 41 | Model-driven development of high-assurance active medical devices. <i>Software Quality Journal</i> , 2016 , 24, 571-596 | 1.2 | 8 |
| 40 | Domain Engineering with Event-B: Some Lessons We Learned 2010 , | | 8 |
| 39 | Stepwise Validation of Formal Specifications 2011 , | | 8 |
| 38 | Towards Validation of Requirements Models. <i>Lecture Notes in Computer Science</i> , 2010 , 404-404 | 0.9 | 8 |

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| 37 | Formal Probabilistic Analysis of Cyber-Physical Transportation Systems. <i>Lecture Notes in Computer Science</i> , 2012 , 419-434 | 0.9 | 8 |
| 36 | How to Select the Suitable Formal Method for an Industrial Application: A Survey. <i>Lecture Notes in Computer Science</i> , 2016 , 213-228 | 0.9 | 8 |
| 35 | Validation of formal specifications through transformation and animation. <i>Requirements Engineering</i> , 2017 , 22, 433-451 | 2.7 | 7 |
| 34 | Build Software or Buy: A Study on Developing Large Scale Software. <i>IEEE Access</i> , 2017 , 5, 24262-24274 | 3.5 | 7 |
| 33 | Refinement-based Validation of Event-B Specifications. <i>Software and Systems Modeling</i> , 2017 , 16, 789-808 | 0.9 | 6 |
| 32 | A systematic literature review of the use of formal methods in medical software systems. <i>Journal of Software: Evolution and Process</i> , 2018 , 30, e1943 | 1 | 5 |
| 31 | Guidelines for Formal Domain Modeling in Event-B 2011 , | | 5 |
| 30 | Refinement-Based Development of Software-Controlled Safety-Critical Active Medical Devices. <i>Lecture Notes in Business Information Processing</i> , 2015 , 120-132 | 0.6 | 5 |
| 29 | Observation-Level-Driven Formal Modeling 2015 , | | 4 |
| 28 | Validation Obligations: A Novel Approach to Check Compliance between Requirements and their Formal Specification 2021 , | | 4 |
| 27 | Validation of Transformation from Abstract State Machine Models to C++ Code. <i>Lecture Notes in Computer Science</i> , 2018 , 17-32 | 0.9 | 4 |
| 26 | Live and global consistency checking in a collaborative engineering environment 2019 , | | 3 |
| 25 | A Literature Review of Using Machine Learning in Software Development Life Cycle Stages. <i>IEEE Access</i> , 2021 , 9, 140896-140920 | 3.5 | 3 |
| 24 | Unified Syntax for Abstract State Machines. <i>Lecture Notes in Computer Science</i> , 2016 , 231-236 | 0.9 | 3 |
| 23 | Generation of Behavior-Driven Development C++ Tests from Abstract State Machine Scenarios. <i>Communications in Computer and Information Science</i> , 2018 , 146-152 | 0.3 | 3 |
| 22 | Deriving Software Architectures for CRUD Applications: The FPL Tower Interface Case Study 2007 , | | 2 |
| 21 | Security Risk Mitigation of Cyber Physical Systems: A Case Study of a Flight Simulator. <i>Communications in Computer and Information Science</i> , 2019 , 129-138 | 0.3 | 2 |
| 20 | Formal Verification and Safety Assessment of a Hemodialysis Machine. <i>Lecture Notes in Computer Science</i> , 2018 , 241-254 | 0.9 | 2 |

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| 19 | AsmetaA: Animator for Abstract State Machines. <i>Lecture Notes in Computer Science</i> , 2018 , 369-373 | 0.9 | 2 |
| 18 | Using Probabilistic Analysis for the Certification of Machine Control Systems. <i>Lecture Notes in Computer Science</i> , 2013 , 305-320 | 0.9 | 2 |
| 17 | Conceptual Modelling of Hybrid Systems. <i>Lecture Notes in Computer Science</i> , 2017 , 277-290 | 0.9 | 2 |
| 16 | Formal design of scalable conversation protocols using Event-B: Validation, experiments, and benchmarks. <i>Journal of Software: Evolution and Process</i> , 2020 , 32, e2209 | 1 | 2 |
| 15 | Towards Optimal Assembly Line Order Sequencing with Reinforcement Learning: A Case Study 2020 , | | 2 |
| 14 | Safe and secure cyber-physical systems. <i>Journal of Software: Evolution and Process</i> , 2021 , 33, e2340 | 1 | 2 |
| 13 | Abstract State Machines, Alloy, B, TLA, VDM, and Z. <i>Lecture Notes in Computer Science</i> , 2016 , | 0.9 | 2 |
| 12 | Multifaceted Consistency Checking of Collaborative Engineering Artifacts 2019 , | | 2 |
| 11 | Validation of Formal Models by Timed Probabilistic Simulation. <i>Lecture Notes in Computer Science</i> , 2021 , 81-96 | 0.9 | 2 |
| 10 | An Event-B-based approach to hybrid systems engineering and its application to a hemodialysis machine case study. <i>Computer Languages, Systems and Structures</i> , 2018 , 54, 297-315 | | 1 |
| 9 | Collaboratively enhanced consistency checking in a cloud-based engineering environment 2019 , | | 1 |
| 8 | Handling Reparation in Incremental Construction of Realizable Conversation Protocols. <i>Communications in Computer and Information Science</i> , 2018 , 159-166 | 0.3 | 1 |
| 7 | Ensuring safe and consistent coengineering of cyber-physical production systems: A case study. <i>Journal of Software: Evolution and Process</i> , 2020 , 33, e2308 | 1 | 1 |
| 6 | Evaluating the alignment of sequence diagrams with system behavior. <i>Procedia Computer Science</i> , 2021 , 180, 502-506 | 1.6 | 1 |
| 5 | 2018 , | | 1 |
| 4 | Model-driven engineering of safety and security software systems: A systematic mapping study and future research directions. <i>Journal of Software: Evolution and Process</i> , | 1 | 0 |
| 3 | Model-Driven Re-engineering of a Pressure Sensing System: An Experience Report. <i>Lecture Notes in Computer Science</i> , 2018 , 264-278 | 0.9 | |
| 2 | Intelligent Autonomous Systems. <i>Computer</i> , 2020 , 53, 20-23 | 1.6 | |

- 1 A Conceptual Model for Mitigation of Root Causes of Uncertainty in Cyber-Physical Systems. *Communications in Computer and Information Science*, **2021**, 9-17 0.3