Atif Mashkoor

List of Publications by Year in Descending Order

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	A Literature Review of Using Machine Learning in Software Development Life Cycle Stages. *IEEE Access*, **2021**, 9, 140896-140920	3.5	3
53	Safe and secure cyber-physical systems. *Journal of Software: Evolution and Process*, **2021**, 33, e2340	1	2
52	Validation Obligations: A Novel Approach to Check Compliance between Requirements and their Formal Specification **2021**,		4
51	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	
50	Validation of Formal Models by Timed Probabilistic Simulation. *Lecture Notes in Computer Science*, **2021**, 81-96	0.9	2
49	Evaluating the alignment of sequence diagrams with system behavior. *Procedia Computer Science*, **2021**, 180, 502-506	1.6	1
48	Formal design of scalable conversation protocols using Event-B: Validation, experiments, and benchmarks. *Journal of Software: Evolution and Process*, **2020**, 32, e2209	1	2
47	Design and validation of a C++ code generator from Abstract State Machines specifications. *Journal of Software: Evolution and Process*, **2020**, 32, e2205	1	10
46	Towards Optimal Assembly Line Order Sequencing with Reinforcement Learning: A Case Study **2020**,		2
45	Ensuring safe and consistent coengineering of cyber-physical production systems: A case study. *Journal of Software: Evolution and Process*, **2020**, 33, e2308	1	1
44	Intelligent Autonomous Systems. *Computer*, **2020**, 53, 20-23	1.6	
43	Live and global consistency checking in a collaborative engineering environment **2019**,		3
42	Collaboratively enhanced consistency checking in a cloud-based engineering environment **2019**,		1
41	Security Risk Mitigation of Cyber Physical Systems: A Case Study of a Flight Simulator. *Communications in Computer and Information Science*, **2019**, 129-138	0.3	2
40	Multifaceted Consistency Checking of Collaborative Engineering Artifacts **2019**,		2
39	A systematic literature review of the use of formal methods in medical software systems. *Journal of Software: Evolution and Process*, **2018**, 30, e1943	1	5
38	Incremental Construction of Realizable Choreographies. *Lecture Notes in Computer Science*, **2018**, 1-19	0.9	8

37	Software Safety and Security Risk Mitigation in Cyber-physical Systems. *IEEE Software*, **2018**, 35, 24-29	1.5	63
36	Integrating formal methods into medical software development: The ASM approach. *Science of Computer Programming*, **2018**, 158, 148-167	1.1	14
35	Model-Driven Re-engineering of a Pressure Sensing System: An Experience Report. *Lecture Notes in Computer Science*, **2018**, 264-278	0.9	
34	**2018**,		9
33	An Event-B-based approach to hybrid systems engineering and its application to a hemodialysis machine case study. *Computer Languages, Systems and Structures*, **2018**, 54, 297-315		1
32	Handling Reparation in Incremental Construction of Realizable Conversation Protocols. *Communications in Computer and Information Science*, **2018**, 159-166	0.3	1
31	Formal Verification and Safety Assessment of a Hemodialysis Machine. *Lecture Notes in Computer Science*, **2018**, 241-254	0.9	2
30	AsmetaA: Animator for Abstract State Machines. *Lecture Notes in Computer Science*, **2018**, 369-373	0.9	2
29	**2018**,		1
28	Generation of Behavior-Driven Development C++ Tests from Abstract State Machine Scenarios. *Communications in Computer and Information Science*, **2018**, 146-152	0.3	3
27	Evaluating the suitability of state-based formal methods for industrial deployment. *Software - Practice and Experience*, **2018**, 48, 2350-2379	2.5	14
26	Validation of Transformation from Abstract State Machine Models to C++ Code. *Lecture Notes in Computer Science*, **2018**, 17-32	0.9	4
25	Validation of formal specifications through transformation and animation. *Requirements Engineering*, **2017**, 22, 433-451	2.7	7
24	Refinement-based Validation of Event-B Specifications. *Software and Systems Modeling*, **2017**, 16, 789-808	1.9	6
23	Asm2C++: A Tool for Code Generation from Abstract State Machines to Arduino. *Lecture Notes in Computer Science*, **2017**, 295-301	0.9	17
22	Discovery and classification of user interests on social media. *Information Discovery and Delivery*, **2017**, 45, 130-138	1.4	12
21	Build Software or Buy: A Study on Developing Large Scale Software. *IEEE Access*, **2017**, 5, 24262-24274	3.5	7
20	Conceptual Modelling of Hybrid Systems. *Lecture Notes in Computer Science*, **2017**, 277-290	0.9	2

19	Towards the Trustworthy Development of Active Medical Devices: A Hemodialysis Case Study. *IEEE Embedded Systems Letters*, **2016**, 8, 14-17	1	13
18	Model-driven development of high-assurance active medical devices. *Software Quality Journal*, **2016**, 24, 571-596	1.2	8
17	Unified Syntax for Abstract State Machines. *Lecture Notes in Computer Science*, **2016**, 231-236	0.9	3
16	The Hemodialysis Machine Case Study. *Lecture Notes in Computer Science*, **2016**, 329-343	0.9	19
15	How to Select the Suitable Formal Method for an Industrial Application: A Survey. *Lecture Notes in Computer Science*, **2016**, 213-228	0.9	8
14	Abstract State Machines, Alloy, B, TLA, VDM, and Z. *Lecture Notes in Computer Science*, **2016**,	0.9	2
13	Observation-Level-Driven Formal Modeling **2015**,		4
12	Formal validation and verification of a medical software critical component **2015**,		14
11	Refinement-Based Development of Software-Controlled Safety-Critical Active Medical Devices. *Lecture Notes in Business Information Processing*, **2015**, 120-132	0.6	5
10	Improving the Understandability of Formal Specifications: An Experience Report. *Lecture Notes in Computer Science*, **2014**, 184-199	0.9	10
9	Using Probabilistic Analysis for the Certification of Machine Control Systems. *Lecture Notes in Computer Science*, **2013**, 305-320	0.9	2
8	Formal Probabilistic Analysis of Cyber-Physical Transportation Systems. *Lecture Notes in Computer Science*, **2012**, 419-434	0.9	8
7	Utilizing Event-B for domain engineering: a critical analysis. *Requirements Engineering*, **2011**, 16, 191-207	2.7	16
6	Stepwise Validation of Formal Specifications **2011**,		8
5	Guidelines for Formal Domain Modeling in Event-B **2011**,		5
4	Domain Engineering with Event-B: Some Lessons We Learned **2010**,		8
3	Towards Validation of Requirements Models. *Lecture Notes in Computer Science*, **2010**, 404-404	0.9	8
2	Deriving Software Architectures for CRUD Applications: The FPL Tower Interface Case Study **2007**,		2

1 Model-driven engineering of safety and security software systems: A systematic mapping study and future research directions. *Journal of Software: Evolution and Process*, 1 0