Matthias Volk

List of Publications by Year
in descending order

16 papers	535 citations	1306789 7 h-index	1125271 13 g-index
17 all docs	17 docs citations	17 times ranked	326 citing authors

#	Article	IF	Citations
1	A Storm is Coming: A Modern Probabilistic Model Checker. Lecture Notes in Computer Science, 2017, , 592-600.	1.0	244
2	PROPhESY: A PRObabilistic ParamEter SYnthesis Tool. Lecture Notes in Computer Science, 2015, , 214-231.	1.0	78
3	Fast Dynamic Fault Tree Analysis by Model Checking Techniques. IEEE Transactions on Industrial Informatics, 2018, 14, 370-379.	7.2	74
4	The probabilistic model checker Storm. International Journal on Software Tools for Technology Transfer, 2022, 24, 589-610.	1.7	55
5	Safety analysis for vehicle guidance systems with dynamic fault trees. Reliability Engineering and System Safety, 2019, 186, 37-50.	5.1	40
6	Model-Based Safety Analysis for Vehicle Guidance Systems. Lecture Notes in Computer Science, 2017, , 3-19.	1.0	8
7	Automated Fine Tuning of Probabilistic Self-Stabilizing Algorithms. , 2017, , .		7
8	One Net Fits All. Lecture Notes in Computer Science, 2018, , 272-293.	1.0	7
9	DFT modeling approach for operational risk assessment of railway infrastructure. International Journal on Software Tools for Technology Transfer, 2022, 24, 331-350.	1.7	6
10	A DFT Modeling Approach for Infrastructure Reliability Analysis of Railway Station Areas. Lecture Notes in Computer Science, 2019, , 40-58.	1.0	4
11	Synergizing Reliability Modeling Languages: BDMPs without Repairs and DFTs. , 2019, , .		3
12	Scalable Reliability Analysis by Lazy Verification. Lecture Notes in Computer Science, 2021, , 180-197.	1.0	2
13	Model Checking the Multi-Formalism Language FIGARO. , 2021, , .		1
14	Formal Verification of Rewriting Rules for Dynamic Fault Trees. Lecture Notes in Computer Science, 2019, , 513-531.	1.0	1
15	Synthesizing optimal bias in randomized self-stabilization. Distributed Computing, 2022, 35, 37-57.	0.7	1
16	Modelling and Analysis of Fire Sprinklers by Verifying Dynamic Fault Trees. , 2021, , .		0