Stefano Marrone

List of Publications by Year
in descending order

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57 papers	601 citations	759055 12 h-index	752573 20 g-index
63 all docs	63 docs citations	63 times ranked	432 citing authors

#	Article	IF	Citations
1	Sensitivity of Machine Learning Approaches to Fake and Untrusted Data in Healthcare Domain. Journal of Sensor and Actuator Networks, 2022, 11, 21.	2.3	3
2	Cyber Resilience Meta-Modelling: The Railway Communication Case Study. Electronics (Switzerland), 2021, 10, 583.	1.8	7
3	Resilience learning through self adaptation in digital twins of human-cyber-physical systems. , 2021, , .		7
4	Improving Classification Trustworthiness in Random Forests. , 2021, , .		1
5	Compositional modeling of railway Virtual Coupling with Stochastic Activity Networks. Formal Aspects of Computing, 2021, 33, 989-1007.	1.4	13
6	Exploring the Impact of Data Poisoning Attacks on Machine Learning Model Reliability. Procedia Computer Science, 2021, 192, 2624-2632.	1.2	4
7	Describing Smart City Problems with Distributed Vulnerability. Intelligent Systems Reference Library, 2021, , 167-188.	1.0	0
8	A Privacy-Oriented Approach for Depression Signs Detection Based on Speech Analysis. Electronics (Switzerland), 2021, 10, 2986.	1.8	1
9	An OSLC-based environment for system-level functional testing of ERTMS/ETCS controllers. Journal of Systems and Software, 2020, 161, 110478.	3.3	8
10	Automatic Generation of Smart Human-Machine Interfaces. , 2020, , .		2
11	Safety integrity through self-adaptation for multi-sensor event detection: Methodology and case-study. Future Generation Computer Systems, 2020, 112, 965-981.	4.9	19
12	A flexible simulation-based framework for model-based/data-driven dependability evaluation. , 2020, , .		0
13	Towards a model-driven engineering approach for the assessment of non-functional properties using multi-formalism. Software and Systems Modeling, 2019, 18, 2241-2264.	2.2	7
14	A model-driven approach for vulnerability evaluation of modern physical protection systems. Software and Systems Modeling, 2019, 18, 523-556.	2.2	13
15	Risk Assessment and Monitoring in Intelligent Data-Centric Systems. , 2018, , 29-52.		1
16	Towards Railway Virtual Coupling. , 2018, , .		61
17	A model driven approach for assessing survivability requirements of critical infrastructures. Journal of High Speed Networks, 2017, 23, 175-186.	0.6	2
18	Towards a Unified Definition of Cyber and Physical Vulnerability in Critical Infrastructures. , 2017, , .		1

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19	A Framework to Evaluate 5G Networks for Smart and Fail-Safe Communications in ERTMS/ETCS. Lecture Notes in Computer Science, 2017, , 34-50.	1.0	3
20	Formal security assessment of Modbus protocol. , 2016, , .		17
21	Finding Resilient and Energy-saving Control Strategies in Smart Homes. Procedia Computer Science, 2016, 83, 976-981.	1.2	5
22	Model-Based Vulnerability Assessment of Self-Adaptive Protection Systems. Studies in Computational Intelligence, 2016, , 439-449.	0.7	2
23	Cost-energy modelling and profiling of smart domestic grids. International Journal of Grid and Utility Computing, 2016, 7, 257.	0.1	11
24	ÂµGRIMOIRE: A Tool for Smart Micro Grids Modelling and Energy Profiling. Open Cybernetics and Systemics Journal, 2016, 10, 263-282.	0.3	5
25	Fuzzy Decision Fusion and Multiformalism Modelling in Physical Security Monitoring. Studies in Computational Intelligence, 2016, , 71-100.	0.7	3
26	Using Bayesian networks for highly available cloud-based web applications. Journal of Reliable Intelligent Environments, 2015, 1, 87-100.	3.8	4
27	Model-Based Water Quality Assurance in Ground and Surface Provisioning Systems. , 2015, , .		3
28	Exploiting Bayesian Networks for the Analysis of Combined Attack Trees. Electronic Notes in Theoretical Computer Science, 2015, 310, 91-111.	0.9	26
29	Automatic Resource Allocation for High Availability Cloud Services. Procedia Computer Science, 2015, 52, 980-987.	1.2	11
30	On synergies of cyber and physical security modelling in vulnerability assessment of railway systems. Computers and Electrical Engineering, 2015, 47, 275-285.	3.0	31
31	Using Bayesian Networks to evaluate the trustworthiness of â€˜2 out of 3â€™ decision fusion mechanisms in multi-sensor applications. IFAC-PapersOnLine, 2015, 48, 682-687.	0.5	6
32	Towards Model-Driven Assessment of Clinical Processes. Smart Innovation, Systems and Technologies, 2015, , 121-132.	0.5	0
33	A MULTIFORMALISM MODULAR APPROACH TO ERTMS/ETCS FAILURE MODELING. International Journal of Reliability, Quality and Safety Engineering, 2014, 21, 1450001.	0.4	25
34	A Cost-Energy Trade-Off Model in Smart Energy Grids. , 2014, , .		2
35	Improving code coverage in android apps testing by exploiting patterns and automatic test case generation. , 2014, , .		5
36	Towards Model-Driven V&V assessment of railway control systems. International Journal on Software Tools for Technology Transfer, 2014, 16, 669-683.	1.7	23

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37	A Petri Net Pattern-Oriented Approach for the Design of Physical Protection Systems. Lecture Notes in Computer Science, 2014, , 230-245.	1.0	8
38	An Interoperable Testing Environment for ERTMS/ETCS Control Systems. Lecture Notes in Computer Science, 2014, , 147-156.	1.0	13
39	Test Specification Patterns for Automatic Generation of Test Sequences. Lecture Notes in Computer Science, 2014, , 170-184.	1.0	3
40	An integrated lifetime and network quality model of large WSNs. , 2013, , .		3
41	A Compositional Modelling Approach for Large Sensor Networks Design. , 2013, , .		3
42	Estimation of the Energy Consumption of Mobile Sensors in WSN Environmental Monitoring Applications. , 2013, , .		14
43	Model-Driven Estimation of Distributed Vulnerability in Complex Railway Networks. , 2013, , .		9
44	Vulnerability modeling and analysis for critical infrastructure protection applications. International Journal of Critical Infrastructure Protection, 2013, 6, 217-227.	2.9	56
45	Petri net based evaluation of energy consumption in wireless sensor nodes. Journal of High Speed Networks, 2013, 19, 339-358.	0.6	7
46	Trustworthiness Evaluation of Multi-sensor Situation Recognition in Transit Surveillance Scenarios. Lecture Notes in Computer Science, 2013, , 442-456.	1.0	9
47	Petri Net Modelling of Physical Vulnerability. Lecture Notes in Computer Science, 2013, , 128-139.	1.0	10
48	Model-Driven V&V Processes for Computer Based Control Systems: A Unifying Perspective. Lecture Notes in Computer Science, 2012, , 190-204.	1.0	11
49	Improving Verification Process in Driverless Metro Systems: The MBAT Project. Lecture Notes in Computer Science, 2012, , 231-245.	1.0	5
50	A SAN-Based Modeling Approach to Performance Evaluation of an IMS-Compliant Conferencing Framework. Lecture Notes in Computer Science, 2012, , 308-333.	1.0	4
51	Model-Driven Availability Evaluation of Railway Control Systems. Lecture Notes in Computer Science, 2011, , 15-28.	1.0	31
52	Adaptive monitoring of marine disasters with intelligent mobile sensor networks. , 2010, , .		6
53	Multiformalism and Transformation Inheritance for Dependability Analysis of Critical Systems. Lecture Notes in Computer Science, 2010, , 215-228.	1.0	6
54	A new modeling approach to the safety evaluation of N-modular redundant computer systems in presence of imperfect maintenance. Reliability Engineering and System Safety, 2009, 94, 1422-1432.	5.1	30

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55	A Model Analysis of a Distributed Monitoring System Using a Multi-formalism Approach. Lecture Notes in Computer Science, 2006, , 499-508.	1.0	1
56	Combining Heterogeneity, Compositionality, and Automatic Generation in Formal Modelling. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 17-33.	0.5	0
57	A Model-Driven Methodology to Evaluate Performability of Metro Systems. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 259-270.	0.5	0