

# 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	Towards Railway Virtual Coupling. , 2018, , .		61
2	Vulnerability modeling and analysis for critical infrastructure protection applications. International Journal of Critical Infrastructure Protection, 2013, 6, 217-227.	2.9	56
3	Model-Driven Availability Evaluation of Railway Control Systems. Lecture Notes in Computer Science, 2011, , 15-28.	1.0	31
4	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
5	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
6	Exploiting Bayesian Networks for the Analysis of Combined Attack Trees. Electronic Notes in Theoretical Computer Science, 2015, 310, 91-111.	0.9	26
7	A MULTIFORMALISM MODULAR APPROACH TO ERTMS/ETCS FAILURE MODELING. International Journal of Reliability, Quality and Safety Engineering, 2014, 21, 1450001.	0.4	25
8	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
9	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
10	Formal security assessment of Modbus protocol. , 2016, , .		17
11	Estimation of the Energy Consumption of Mobile Sensors in WSN Environmental Monitoring Applications. , 2013, , .		14
12	A model-driven approach for vulnerability evaluation of modern physical protection systems. Software and Systems Modeling, 2019, 18, 523-556.	2.2	13
13	Compositional modeling of railway Virtual Coupling with Stochastic Activity Networks. Formal Aspects of Computing, 2021, 33, 989-1007.	1.4	13
14	An Interoperable Testing Environment for ERTMS/ETCS Control Systems. Lecture Notes in Computer Science, 2014, , 147-156.	1.0	13
15	Automatic Resource Allocation for High Availability Cloud Services. Procedia Computer Science, 2015, 52, 980-987.	1.2	11
16	Model-Driven V&V Processes for Computer Based Control Systems: A Unifying Perspective. Lecture Notes in Computer Science, 2012, , 190-204.	1.0	11
17	Cost-energy modelling and profiling of smart domestic grids. International Journal of Grid and Utility Computing, 2016, 7, 257.	0.1	11
18	Petri Net Modelling of Physical Vulnerability. Lecture Notes in Computer Science, 2013, , 128-139.	1.0	10

#	ARTICLE	IF	CITATIONS
19	Model-Driven Estimation of Distributed Vulnerability in Complex Railway Networks. , 2013, , .		9
20	Trustworthiness Evaluation of Multi-sensor Situation Recognition in Transit Surveillance Scenarios. Lecture Notes in Computer Science, 2013, , 442-456.	1.0	9
21	An OSLC-based environment for system-level functional testing of ERTMS/ETCS controllers. Journal of Systems and Software, 2020, 161, 110478.	3.3	8
22	A Petri Net Pattern-Oriented Approach for the Design of Physical Protection Systems. Lecture Notes in Computer Science, 2014, , 230-245.	1.0	8
23	Petri net based evaluation of energy consumption in wireless sensor nodes. Journal of High Speed Networks, 2013, 19, 339-358.	0.6	7
24	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
25	Cyber Resilience Meta-Modelling: The Railway Communication Case Study. Electronics (Switzerland), 2021, 10, 583.	1.8	7
26	Resilience learning through self adaptation in digital twins of human-cyber-physical systems. , 2021, , .		7
27	Adaptive monitoring of marine disasters with intelligent mobile sensor networks. , 2010, , .		6
28	Using Bayesian Networks to evaluate the trustworthiness of $\hat{C}^2$ out of 3 $\hat{C}^2$ ™ decision fusion mechanisms in multi-sensor applications. IFAC-PapersOnLine, 2015, 48, 682-687.	0.5	6
29	Multiformalism and Transformation Inheritance for Dependability Analysis of Critical Systems. Lecture Notes in Computer Science, 2010, , 215-228.	1.0	6
30	Improving code coverage in android apps testing by exploiting patterns and automatic test case generation. , 2014, , .		5
31	Finding Resilient and Energy-saving Control Strategies in Smart Homes. Procedia Computer Science, 2016, 83, 976-981.	1.2	5
32	Improving Verification Process in Driverless Metro Systems: The MBAT Project. Lecture Notes in Computer Science, 2012, , 231-245.	1.0	5
33	ÂµGRIMOIRE: A Tool for Smart Micro Grids Modelling and Energy Profiling. Open Cybernetics and Systemics Journal, 2016, 10, 263-282.	0.3	5
34	Using Bayesian networks for highly available cloud-based web applications. Journal of Reliable Intelligent Environments, 2015, 1, 87-100.	3.8	4
35	Exploring the Impact of Data Poisoning Attacks on Machine Learning Model Reliability. Procedia Computer Science, 2021, 192, 2624-2632.	1.2	4
36	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

#	ARTICLE	IF	CITATIONS
37	An integrated lifetime and network quality model of large WSNs. , 2013, , .		3
38	A Compositional Modelling Approach for Large Sensor Networks Design. , 2013, , .		3
39	Model-Based Water Quality Assurance in Ground and Surface Provisioning Systems. , 2015, , .		3
40	Test Specification Patterns for Automatic Generation of Test Sequences. Lecture Notes in Computer Science, 2014, , 170-184.	1.0	3
41	Fuzzy Decision Fusion and Multiformalism Modelling in Physical Security Monitoring. Studies in Computational Intelligence, 2016, , 71-100.	0.7	3
42	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
43	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
44	A Cost-Energy Trade-Off Model in Smart Energy Grids. , 2014, , .		2
45	A model driven approach for assessing survivability requirements of critical infrastructures. Journal of High Speed Networks, 2017, 23, 175-186.	0.6	2
46	Automatic Generation of Smart Human-Machine Interfaces. , 2020, , .		2
47	Model-Based Vulnerability Assessment of Self-Adaptive Protection Systems. Studies in Computational Intelligence, 2016, , 439-449.	0.7	2
48	Towards a Unified Definition of Cyber and Physical Vulnerability in Critical Infrastructures. , 2017, , .		1
49	Risk Assessment and Monitoring in Intelligent Data-Centric Systems. , 2018, , 29-52.		1
50	Improving Classification Trustworthiness in Random Forests. , 2021, , .		1
51	A Model Analysis of a Distributed Monitoring System Using a Multi-formalism Approach. Lecture Notes in Computer Science, 2006, , 499-508.	1.0	1
52	A Privacy-Oriented Approach for Depression Signs Detection Based on Speech Analysis. Electronics (Switzerland), 2021, 10, 2986.	1.8	1
53	Towards Model-Driven Assessment of Clinical Processes. Smart Innovation, Systems and Technologies, 2015, , 121-132.	0.5	0
54	Describing Smart City Problems with Distributed Vulnerability. Intelligent Systems Reference Library, 2021, , 167-188.	1.0	0

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	A flexible simulation-based framework for model-based/data-driven dependability evaluation. , 2020, , .		0