

Roberto Nardone

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

720
citations

687220

13
h-index

642610

23
g-index

51
all docs

51
docs citations

51
times ranked

465
citing authors

#	ARTICLE	IF	CITATIONS
1	ERTMS/ETCS Virtual Coupling: Proof of Concept and Numerical Analysis. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2545-2556.	4.7	95
2	Towards Railway Virtual Coupling. , 2018, , .		61
3	Vulnerability modeling and analysis for critical infrastructure protection applications. International Journal of Critical Infrastructure Protection, 2013, 6, 217-227.	2.9	56
4	Enabling the usage of UML in the verification of railway systems: The DAM-rail approach. Reliability Engineering and System Safety, 2013, 120, 112-126.	5.1	44
5	Software Verification and Validation of Safe Autonomous Cars: A Systematic Literature Review. IEEE Access, 2021, 9, 4797-4819.	2.6	38
6	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
7	CAN-Bus Attack Detection With Deep Learning. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5081-5090.	4.7	31
8	Artificial Intelligence in Railway Transport: Taxonomy, Regulations, and Applications. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14011-14024.	4.7	27
9	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
10	Securing MQTT by Blockchain-Based OTP Authentication. Sensors, 2020, 20, 2002.	2.1	22
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	Formal security assessment of Modbus protocol. , 2016, , .		17
13	A simulation framework for supporting design and real-time decisional phases in railway systems. , 2011, , .		16
14	Dynamic state machines for modelling railway control systems. Science of Computer Programming, 2017, 133, 116-153.	1.5	16
15	Estimation of the Energy Consumption of Mobile Sensors in WSN Environmental Monitoring Applications. , 2013, , .		14
16	A model-driven approach for vulnerability evaluation of modern physical protection systems. Software and Systems Modeling, 2019, 18, 523-556.	2.2	13
17	Compositional modeling of railway Virtual Coupling with Stochastic Activity Networks. Formal Aspects of Computing, 2021, 33, 989-1007.	1.4	13
18	An Interoperable Testing Environment for ERTMS/ETCS Control Systems. Lecture Notes in Computer Science, 2014, , 147-156.	1.0	13

#	ARTICLE	IF	CITATIONS
19	An Integrated Approach for Availability and QoS Evaluation in Railway Systems. Lecture Notes in Computer Science, 2011, , 171-184.	1.0	11
20	Automatic Resource Allocation for High Availability Cloud Services. Procedia Computer Science, 2015, 52, 980-987.	1.2	11
21	Model-Driven V&V Processes for Computer Based Control Systems: A Unifying Perspective. Lecture Notes in Computer Science, 2012, , 190-204.	1.0	11
22	Cost-energy modelling and profiling of smart domestic grids. International Journal of Grid and Utility Computing, 2016, 7, 257.	0.1	11
23	Low-Power Wide-Area Networks in Intelligent Transportation: Review and Opportunities for Smart-Railways. , 2020, , .		9
24	A Survey on Audio-Video Based Defect Detection Through Deep Learning in Railway Maintenance. IEEE Access, 2022, 10, 65376-65400.	2.6	9
25	An OSLC-based environment for system-level functional testing of ERTMS/ETCS controllers. Journal of Systems and Software, 2020, 161, 110478.	3.3	8
26	A Petri Net Pattern-Oriented Approach for the Design of Physical Protection Systems. Lecture Notes in Computer Science, 2014, , 230-245.	1.0	8
27	Petri net based evaluation of energy consumption in wireless sensor nodes. Journal of High Speed Networks, 2013, 19, 339-358.	0.6	7
28	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
29	Using Bayesian Networks to evaluate the trustworthiness of $\hat{\epsilon}^2$ out of 3 $\hat{\epsilon}^{\text{TM}}$ decision fusion mechanisms in multi-sensor applications. IFAC-PapersOnLine, 2015, 48, 682-687.	0.5	6
30	Improving code coverage in android apps testing by exploiting patterns and automatic test case generation. , 2014, , .		5
31	A Proposal of an Example and Experiments Repository to Foster Industrial Adoption of Formal Methods. Lecture Notes in Computer Science, 2018, , 249-272.	1.0	5
32	Improving Verification Process in Driverless Metro Systems: The MBAT Project. Lecture Notes in Computer Science, 2012, , 231-245.	1.0	5
33	$\hat{\mu}$ GRIMOIRE: A Tool for Smart Micro Grids Modelling and Energy Profiling. Open Cybernetics and Systemics Journal, 2016, 10, 263-282.	0.3	5
34	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
35	An integrated lifetime and network quality model of large WSNs. , 2013, , .		3
36	A Compositional Modelling Approach for Large Sensor Networks Design. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
37	Model-Based Water Quality Assurance in Ground and Surface Provisioning Systems. , 2015, , .		3
38	Test Specification Patterns for Automatic Generation of Test Sequences. Lecture Notes in Computer Science, 2014, , 170-184.	1.0	3
39	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
40	A Cost-Energy Trade-Off Model in Smart Energy Grids. , 2014, , .		2
41	A Novel Query Language for Data Extraction from Social Networks. , 2019, , .		1
42	Towards Model-Based Security Assessment of Cloud Applications. Lecture Notes in Computer Science, 2017, , 773-785.	1.0	0
43	A Model-Based Evaluation Methodology for Smart Energy Systems. , 2018, , .		0
44	Towards Model-Driven Assessment of Clinical Processes. Smart Innovation, Systems and Technologies, 2015, , 121-132.	0.5	0
45	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
46	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