Simona Bernardi

List of Publications by Year
in descending order

47 papers	839 citations	759233 12 h-index	677142 22 g-index
47 all docs	47 docs citations	47 times ranked	520 citing authors

#	Article	IF	Citations
1	From UML sequence diagrams and statecharts to analysable petri net models. , 2002, , .		170
2	A dependability profile within MARTE. Software and Systems Modeling, 2011, 10, 313-336.	2.7	140
3	Dependability modeling and analysis of software systems specified with UML. ACM Computing Surveys, 2012, 45, 1-48.	23.0	69
4	Performance evaluation of UML design with Stochastic Well-formed Nets. Journal of Systems and Software, 2007, 80, 1843-1865.	4.5	53
5	Timing-Failure Risk Assessment of UML Design Using Time Petri Net Bound Techniques. IEEE Transactions on Industrial Informatics, 2011, 7, 90-104.	11.3	53
6	Computation of Performance Bounds for Real-Time Systems Using Time Petri Nets. IEEE Transactions on Industrial Informatics, 2009, 5, 168-180.	11.3	37
7	Model-Driven Dependability Assessment of Software Systems. , 2013, , .		36
8	Model-Driven Availability Evaluation of Railway Control Systems. Lecture Notes in Computer Science, 2011, , 15-28.	1.3	31
9	A UML profile for dependability analysis of real-time embedded systems. , 2007, , .		23
10	Adding Dependability Analysis Capabilities to the MARTE Profile. Lecture Notes in Computer Science, 2008, , 736-750.	1.3	21
11	Modelling Security of Critical Infrastructures: A Survivability Assessment. Computer Journal, 2015, 58, 2313-2327.	2.4	20
12	Modeling Performance of Hadoop Applications: A Journey from Queueing Networks to Stochastic Well Formed Nets. Lecture Notes in Computer Science, 2016, , 599-613.	1.3	20
13	Dependability analysis of DES based on MARTE and UML state machines models. Discrete Event Dynamic Systems: Theory and Applications, 2012, 22, 163-178.	1.5	18
14	A Min-Max Problem for the Computation of the Cycle Time Lower Bound in Interval-Based Time Petri Nets. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 1167-1181.	9.3	13
15	Performance Analysis of Apache Storm Applications Using Stochastic Petri Nets. , 2017, , .		13
16	Quantitative Analysis of Apache Storm Applications: The NewsAsset Case Study. Information Systems Frontiers, 2019, 21, 67-85.	6.4	12
17	Towards a Methodological Approach to Specification and Analysis of Dependable Automation Systems. Lecture Notes in Computer Science, 2004, , 36-51.	1.3	11
18	Modelling and analysing resilience as a security issue within UML. , 2010, , .		10

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19	An Evaluation Framework for Comparative Analysis of Generalized Stochastic Petri Net Simulation Techniques. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2834-2844.	9.3	10
20	Dependability Analysis Techniques. , 2013, , 73-90.		9
21	Towards a model-driven engineering approach for the assessment of non-functional properties using multi-formalism. Software and Systems Modeling, 2019, 18, 2241-2264.	2.7	7
22	Performance aware open-world software in a 3-layer architecture. , 2010, , .		6
23	A model-based approach for the specification and verification of clinical guidelines. , 2014, , .		6
24	A systematic approach for performance evaluation using process mining: the POSIDONIA operations case study. , 2016, , .		6
25	A systematic approach for performance assessment using process mining. Empirical Software Engineering, 2018, 23, 3394-3441.	3.9	6
26	Toward a decision support system for the clinical pathways assessment. Discrete Event Dynamic Systems: Theory and Applications, 2019, 29, 91-125.	1.5	6
27	A model-driven approach to survivability requirement assessment for critical systems. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2016, 230, 485-501.	0.7	5
28	Dependability Modeling and Assessment in UML-Based Software Development. Scientific World Journal, The, 2012, 2012, 1-11.	2.1	4
29	ITPN-PerfBound: A Performance Bound Tool for Interval Time Petri Nets. Lecture Notes in Computer Science, 2009, , 50-53.	1.3	4
30	From Software Models to Dependability Analysis Models. , 2013, , 105-131.		4
31	Reliability and Availability Requirements Engineering within the Unified Process Using a Dependability Analysis and Modeling Profile. , 2010, , .		3
32	Using Process Mining and Model-Driven Engineering to Enhance Security of Web Information Systems. , 2017, , .		3
33	Living with Uncertainty in Model-Based Development. , 2021, , 159-185.		3
34	DICE simulation: a tool for software performance assessment at the design stage. Automated Software Engineering, 2022, 29, 1.	2.9	3
35	A model driven approach for assessing survivability requirements of critical infrastructures. Journal of High Speed Networks, 2017, 23, 175-186.	0.8	2
36	Detection of Integrity Attacks to Smart Grids using Process Mining and Time-Evolving Graphs. , 2018, , .		2

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37	Integrating TPNs and Performance Bound Techniques in ITPN-PerfBound: A New Import Functionality. , 2009, , .		0
38	Conclusions and Advanced Open Issues. , 2013, , 133-149.		0
39	Dependability Modeling and Analysis Profile. , 2013, , 51-71.		0
40	Dependability Concepts. , 2013, , 9-18.		0
41	Dependability Assessment and Software Life Cycle. , 2013, , 1-7.		0
42	Software Models. , 2013, , 19-40.		0
43	Dependability Domain Model. , 2013, , 41-50.		0
44	Proposals for Dependability Assessment. , 2013, , 91-104.		0
45	Modelling and Verification of Survivability Requirements for Critical Systems. Lecture Notes in Computer Science, 2015, , 86-100.	1.3	0
46	A Meta-Model-Based Approach to the Definition of the Analysis Results of Petri-Net Models. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 104-116.	0.5	0
47	Dependability Modeling of Software Systems with UML and DAM: A Guide for Real-Time Practitioners. , 2022, 1, 146-163.		0