

Simona Bernardi

List of Publications by Year in descending order

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47
papers

839
citations

759233

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h-index

677142

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g-index

47
all docs

47
docs citations

47
times ranked

520
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | DICE simulation: a tool for software performance assessment at the design stage. Automated Software Engineering, 2022, 29, 1. | 2.9 | 3 |
| 2 | Dependability Modeling of Software Systems with UML and DAM: A Guide for Real-Time Practitioners. , 2022, 1, 146-163. | | 0 |
| 3 | Living with Uncertainty in Model-Based Development. , 2021, , 159-185. | | 3 |
| 4 | 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 |
| 5 | Quantitative Analysis of Apache Storm Applications: The NewsAsset Case Study. Information Systems Frontiers, 2019, 21, 67-85. | 6.4 | 12 |
| 6 | Toward a decision support system for the clinical pathways assessment. Discrete Event Dynamic Systems: Theory and Applications, 2019, 29, 91-125. | 1.5 | 6 |
| 7 | 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 |
| 8 | A systematic approach for performance assessment using process mining. Empirical Software Engineering, 2018, 23, 3394-3441. | 3.9 | 6 |
| 9 | Detection of Integrity Attacks to Smart Grids using Process Mining and Time-Evolving Graphs. , 2018, , . | | 2 |
| 10 | A model driven approach for assessing survivability requirements of critical infrastructures. Journal of High Speed Networks, 2017, 23, 175-186. | 0.8 | 2 |
| 11 | Performance Analysis of Apache Storm Applications Using Stochastic Petri Nets. , 2017, , . | | 13 |
| 12 | Using Process Mining and Model-Driven Engineering to Enhance Security of Web Information Systems. , 2017, , . | | 3 |
| 13 | 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 |
| 14 | A systematic approach for performance evaluation using process mining: the POSIDONIA operations case study. , 2016, , . | | 6 |
| 15 | 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 |
| 16 | Modelling Security of Critical Infrastructures: A Survivability Assessment. Computer Journal, 2015, 58, 2313-2327. | 2.4 | 20 |
| 17 | Modelling and Verification of Survivability Requirements for Critical Systems. Lecture Notes in Computer Science, 2015, , 86-100. | 1.3 | 0 |
| 18 | A model-based approach for the specification and verification of clinical guidelines. , 2014, , . | | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Conclusions and Advanced Open Issues. , 2013, , 133-149. | | 0 |
| 20 | 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 |
| 21 | Model-Driven Dependability Assessment of Software Systems. , 2013, , . | | 36 |
| 22 | Dependability Analysis Techniques. , 2013, , 73-90. | | 9 |
| 23 | From Software Models to Dependability Analysis Models. , 2013, , 105-131. | | 4 |
| 24 | Dependability Modeling and Analysis Profile. , 2013, , 51-71. | | 0 |
| 25 | Dependability Concepts. , 2013, , 9-18. | | 0 |
| 26 | Dependability Assessment and Software Life Cycle. , 2013, , 1-7. | | 0 |
| 27 | Software Models. , 2013, , 19-40. | | 0 |
| 28 | Dependability Domain Model. , 2013, , 41-50. | | 0 |
| 29 | Proposals for Dependability Assessment. , 2013, , 91-104. | | 0 |
| 30 | Dependability modeling and analysis of software systems specified with UML. ACM Computing Surveys, 2012, 45, 1-48. | 23.0 | 69 |
| 31 | Dependability Modeling and Assessment in UML-Based Software Development. Scientific World Journal, The, 2012, 2012, 1-11. | 2.1 | 4 |
| 32 | 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 |
| 33 | 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 |
| 34 | Model-Driven Availability Evaluation of Railway Control Systems. Lecture Notes in Computer Science, 2011, , 15-28. | 1.3 | 31 |
| 35 | A dependability profile within MARTE. Software and Systems Modeling, 2011, 10, 313-336. | 2.7 | 140 |
| 36 | Modelling and analysing resilience as a security issue within UML. , 2010, , . | | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Performance aware open-world software in a 3-layer architecture. , 2010, , . | | 6 |
| 38 | Reliability and Availability Requirements Engineering within the Unified Process Using a Dependability Analysis and Modeling Profile. , 2010, , . | | 3 |
| 39 | Computation of Performance Bounds for Real-Time Systems Using Time Petri Nets. IEEE Transactions on Industrial Informatics, 2009, 5, 168-180. | 11.3 | 37 |
| 40 | Integrating TPNs and Performance Bound Techniques in ITPN-PerfBound: A New Import Functionality. , 2009, , . | | 0 |
| 41 | ITPN-PerfBound: A Performance Bound Tool for Interval Time Petri Nets. Lecture Notes in Computer Science, 2009, , 50-53. | 1.3 | 4 |
| 42 | Adding Dependability Analysis Capabilities to the MARTE Profile. Lecture Notes in Computer Science, 2008, , 736-750. | 1.3 | 21 |
| 43 | A UML profile for dependability analysis of real-time embedded systems. , 2007, , . | | 23 |
| 44 | Performance evaluation of UML design with Stochastic Well-formed Nets. Journal of Systems and Software, 2007, 80, 1843-1865. | 4.5 | 53 |
| 45 | Towards a Methodological Approach to Specification and Analysis of Dependable Automation Systems. Lecture Notes in Computer Science, 2004, , 36-51. | 1.3 | 11 |
| 46 | From UML sequence diagrams and statecharts to analysable petri net models. , 2002, , . | | 170 |
| 47 | 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 |