

Maria Luisa Villani

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,633
citations

759233

12
h-index

552781

26
g-index

47
all docs

47
docs citations

47
times ranked

1002
citing authors

#	ARTICLE	IF	CITATIONS
1	An approach for QoS-aware service composition based on genetic algorithms. , 2005, , .		668
2	A framework for QoS-aware binding and re-binding of composite web services. Journal of Systems and Software, 2008, 81, 1754-1769.	4.5	255
3	QoS-aware replanning of composite Web services. , 2005, , .		209
4	WAX: An integrated conceptual framework for the analysis of cyber-socio-technical systems. Safety Science, 2021, 136, 105142.	4.9	46
5	Serious games for industrial safety: An approach for developing resilience early warning indicators. Safety Science, 2019, 118, 316-331.	4.9	39
6	Negotiation of Service Level Agreements: An Architecture and a Search-Based Approach. Lecture Notes in Computer Science, 2007, , 295-306.	1.3	39
7	Creative design of emergency management scenarios driven by semantics: An application to smart cities. Information Systems, 2019, 81, 21-48.	3.6	37
8	Service Composition (re)Binding Driven by Applicationâ€™Specific QoS. Lecture Notes in Computer Science, 2006, , 141-152.	1.3	36
9	Smart City Ontologies and Their Applications: A Systematic Literature Review. Sustainability, 2021, 13, 5578.	3.2	32
10	DELFIN+: An efficient deadlock detection tool for CCS processes. Journal of Computer and System Sciences, 2006, 72, 1397-1412.	1.2	29
11	Incremental construction of systems: An efficient characterization of the lacking sub-system. Science of Computer Programming, 2013, 78, 1346-1367.	1.9	26
12	Ant Colony Optimization for Deadlock Detection in Concurrent Systems. , 2011, , .		24
13	Building climate change into risk assessments. Natural Hazards, 2016, 84, 1307-1325.	3.4	24
14	Using heuristic search for finding deadlocks in concurrent systems. Information and Computation, 2005, 202, 191-226.	0.7	21
15	Managing coordination and cooperation in distributed software processes: the GENESIS environment. Software Process Improvement and Practice, 2004, 9, 239-263.	1.1	20
16	A Flexible Architecture for Cognitive Sensing of Activities in Ambient Assisted Living. , 2017, , .		14
17	A comprehensive system for semantic spatiotemporal assessment of risk in urban areas. Journal of Contingencies and Crisis Management, 2020, 28, 178-193.	2.8	12
18	Semantics-based services for a low carbon society: An application onÂ€emissions trading system data and scenarios management. Environmental Modelling and Software, 2015, 64, 124-142.	4.5	11

#	ARTICLE	IF	CITATIONS
19	Model Checking Multithreaded Programs by Means of Reduced Models. <i>Electronic Notes in Theoretical Computer Science</i> , 2004, 110, 55-74.	0.9	10
20	Formal Verification of Concurrent Systems via Directed Model Checking. <i>Electronic Notes in Theoretical Computer Science</i> , 2007, 185, 93-105.	0.9	9
21	FlowManager: a workflow management system based on Petri nets. , 0, , .		7
22	A methodology for modeling and measuring interdependencies of information and communications systems used for public administration and eGovernment services. <i>International Journal of Critical Infrastructure Protection</i> , 2016, 14, 18-27.	4.6	7
23	Dynamic composition of web applications in human-centered processes. , 2009, , .		6
24	Gamified Software to Support the Design of Business Innovation. <i>Information (Switzerland)</i> , 2018, 9, 324.	2.9	6
25	Enhancing Creativity in Risk Assessment of Complex Sociotechnical Systems. <i>Lecture Notes in Computer Science</i> , 2017, , 294-309.	1.3	6
26	A DOMAIN SPECIFIC LANGUAGE FOR THE DESCRIPTION AND THE SIMULATION OF SYSTEMS OF INTERACTING SYSTEMS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2012, 15, 1250072.	1.4	5
27	A Lateral Thinking Framework for Semantic Modelling of Emergencies in Smart Cities. <i>Lecture Notes in Computer Science</i> , 2014, , 334-348.	1.3	5
28	Discovery of SOA patterns via model checking. , 2007, , .		4
29	A Semantics-Based Approach to Generation of Emergency Management Scenario Models. <i>Proceedings of the I-ESA Conference</i> , 2014, , 163-173.	0.4	4
30	Building component families to support adaptation. , 2005, , .		3
31	Crowd Sensitive Indicators for Proactive Safety Management: A Theoretical Framework. , 2020, , .		3
32	Gamified Decision Making for a Participatory Post-Crisis Recovery: A Model based Process. , 2020, , .		3
33	Semantic Modeling of Cascading Risks in Interoperable Socio-technical Systems. <i>Proceedings of the I-ESA Conference</i> , 2019, , 119-129.	0.4	3
34	M-CREAM: A Tool for Creative Modelling of Emergency Scenarios in Smart Cities. <i>Lecture Notes in Computer Science</i> , 2018, , 83-88.	1.3	2
35	Abstracting Models from Execution Traces for Performing Formal Verification. <i>Communications in Computer and Information Science</i> , 2009, , 143-150.	0.5	2
36	A Knowledge Graph to Digitalise Functional Resonance Analyses in the Safety Area. <i>Contributions To Management Science</i> , 2022, , 259-269.	0.5	2

#	ARTICLE	IF	CITATIONS
37	Towards ontological foundations of knowledge related to the emissions trading system. , 2013, , .		1
38	Towards Temporal Analysis of Integrated Scenarios for Sustainable Innovation. Lecture Notes in Computer Science, 2016, , 544-551.	1.3	1
39	A Gamified Approach to Participatory Modelling of Water System Risks. Lecture Notes in Computer Science, 2018, , 168-180.	1.3	1
40	A Rule-based Approach for Modelling Behaviour in Crisis and Emergency Scenarios. , 2012, , 93-103.		1
41	ContentP2P: a peer-to-peer content management system. , 0, , .		0
42	A new characterisation of hereditary pi rings. Israel Journal of Mathematics, 2003, 133, 93-146.	0.8	0
43	Modular formal verification of specifications of concurrent systems. Software Testing Verification and Reliability, 2008, 18, 5-28.	2.0	0
44	Semantic Modeling of the Emissions Trading System. , 2013, , .		0
45	TEMPORANA: Flexible Temporal Query Processing for Supporting System Behavior Detection across Complex Scenarios. , 2016, , .		0
46	Creative Sparks for Collaborative Innovation. Lecture Notes in Information Systems and Organisation, 2018, , 109-124.	0.6	0