Sanja Lazarova-Molnar

List of Publications by Year
in descending order

69 papers	933 citations	840119 11 h-index	610482 24 g-index
71 all docs	71 docs citations	71 times ranked	769 citing authors

#	Article	IF	Citations
1	SmartCityWare: A Service-Oriented Middleware for Cloud and Fog Enabled Smart City Services. IEEE Access, 2017, 5, 17576-17588.	2.6	112
2	Leveraging the Capabilities of Industry 4.0 for Improving Energy Efficiency in Smart Factories. IEEE Access, 2019, 7, 18008-18020.	2.6	95
3	A framework for data-driven digital twins of smart manufacturing systems. Computers in Industry, 2022, 136, 103586.	5.7	79
4	Protein-protein interaction based on pairwise similarity. BMC Bioinformatics, 2009, 10, 150.	1.2	47
5	Fault detection and diagnosis for smart buildings: State of the art, trends and challenges. , 2016, , .		35
6	Simulation and Modeling Efforts to Support Decision Making in Healthcare Supply Chain Management. Scientific World Journal, The, 2014, 2014, 1-16.	0.8	34
7	A Service-Oriented Middleware for Building Collaborative UAVs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 74, 309-321.	2.0	29
8	Reliability Assessment in the Context of Industry 4.0: Data as a Game Changer. Procedia Computer Science, 2019, 151, 691-698.	1.2	28
9	CE-BEMS: A cloud-enabled building energy management system. , 2016, , .		22
10	Collaborative data analytics for smart buildings: opportunities and models. Cluster Computing, 2019, 22, 1065-1077.	3.5	21
11	Cloud of Things: Optimizing smart city services. , 2017, , .		19
12	A service-oriented middleware for cloud of things and fog computing supporting smart city applications. , 2017, , .		19
13	Towards Data-Driven Reliability Modeling for Cyber-Physical Production Systems. Procedia Computer Science, 2021, 184, 589-596.	1.2	19
14	Reliability of cyber physical systems with focus on building management systems. , 2016, , .		18
15	A fresh look at majority multiplexing when devices get into the picture. , 2007, , .		16
16	A Combination of Compositional Index and Genetic Algorithm for Predicting Transmembrane Helical Segments. PLoS ONE, 2011, 6, e21821.	1.1	15
17	Data analytics framework for Industry 4.0: enabling collaboration for added benefits. IET Collaborative Intelligent Manufacturing, 2019, 1, 117-125.	1.9	15
18	Reliability modeling of cyber-physical systems: A holistic overview and challenges. , 2017, , .		14

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19	Middleware requirements for collaborative unmanned aerial vehicles. , 2013, , .		13
20	Challenge. , 2015, , .		13
21	Energy Cloud: Services for Smart Buildings. , 2018, , 117-134.		13
22	Commercial Buildings Energy Performance within Context - Occupants in Spotlight. , 2015, , .		13
23	Hybrid modeling of collaborative freight transportation planning using agent-based simulation, auction-based mechanisms, and optimization. Simulation, 2022, 98, 753-771.	1.1	13
24	Software Engineering Issues for Cyber-Physical Systems. , 2016, , .		11
25	SBDaaS: Smart building diagnostics as a service on the cloud. , 2016, , .		11
26	Challenges in the Data Collection for Diagnostics of Smart Buildings. Lecture Notes in Electrical Engineering, 2016, , 941-951.	0.3	11
27	A new data-driven controllability measure with application in intelligent buildings. Energy and Buildings, 2017, 138, 526-529.	3.1	11
28	Towards Service-Oriented Middleware for Fog and Cloud Integrated Cyber Physical Systems. , 2017, , .		10
29	Towards Collaborative Data Analytics for Smart Buildings. Lecture Notes in Electrical Engineering, 2017, , 459-466.	0.3	9
30	Collaborative Data Analytics for Industry 4.0: Challenges, Opportunities and Models. , 2018, , .		9
31	Towards smart buildings performance testing as a service. , 2018, , .		8
32	Applications of Integrated IoT-Fog-Cloud Systems to Smart Cities: A Survey. Electronics (Switzerland), 2021, 10, 2918.	1.8	8
33	Middleware to support cyber-physical systems. , 2016, , .		7
34	Assessment of Building Intelligence Requirements for Real Time Performance Testing in Smart Buildings. , 2019, , .		7
35	Deriving Simulation Models from Data: Steps of Simulation Studies Revisited. , 2019, , .		7
36	A framework for collaborative cloud-based fault detection and diagnosis in smart buildings. , 2017, , .		7

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37	Mobile Crowdsourcing of Data for Fault Detection and Diagnosis in Smart Buildings. , 2016, , .		6
38	A Practical Approach to Validation of Buildings' Sensor Data: A Commissioning Experience Report. , 2017, , .		6
39	On the Complexity of Smart Buildings Occupant Behavior. , 2017, , .		6
40	Towards Data-Driven Digital Twins for Smart Manufacturing. Lecture Notes in Networks and Systems, 2021, , 445-454.	0.5	6
41	Fusion of Data and Expert Knowledge for Fault Tree Reliability Analysis of Cyber-Physical Systems. , 2021, , .		6
42	Requirements for Data-Driven Reliability Modeling and Simulation of Smart Manufacturing Systems. , 2021, , .		6
43	A genetic algorithm to enhance transmembrane helices prediction. , 2011, , .		5
44	Mobile crowdsourcing of occupant feedback in smart buildings. ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing, 2017, 17, 5-14.	0.5	5
45	Evolution of Feature-Oriented Software: How to Stay on Course and Avoid the Cliffs of Modularity Drift. Communications in Computer and Information Science, 2015, , 183-201.	0.4	5
46	Towards a Rigorous Consideration of Occupant Behaviours of Residential Households for Effective Electrical Energy Savings: An Overview. Energies, 2022, 15, 1741.	1.6	5
47	A simulation-based approach to enhancing project schedules by the inclusion of remedial action scenarios. , 2011, , .		4
48	Modeling and simulation of epidemic spread: Recent advances. , 2013, , .		4
49	Reliability Analysis of Cyber-Physical Systems. Simulation Foundations, Methods and Applications, 2020, , 385-405.	0.8	4
50	Middleware Challenges for Cyber-Physical Systems. Scalable Computing, 2017, 18, .	0.7	4
51	Collaborative data-driven reliability analysis of multi-state fault trees. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2023, 237, 886-896.	0.6	4
52	Reliability the Fourth Optimization Pillar of Nanoelectronics. , 2007, , .		3
53	Floating Task: Introducing and Simulating a Higher Degree of Uncertainty in Project Schedules. , 2010, , .		3
54	Recent trends in solving the deterministic resource constrained Project Scheduling Problem. , 2013, , .		3

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55	Simulation-based Feature Selection for Software Requirements Baseline. Journal of Software, 2012, 7, .	0.6	3
56	Proxels for Reliability Assessment of Future Nano-Architectures. , 2007, , .		2
57	Poster Abstract. , 2015, , .		2
58	Comparative Evaluation of Threshold Modelling for Smart Buildingsâ€™ Performance Testing. , 2018, , .		2
59	Accurate Nano-Circuits Reliability Evaluations Based on Combining Numerical Simulations with Monte Carlo. , 2007, , .		1
60	True state-space complexity prediction: By the proxel-based simulation method. , 2009, , .		1
61	Performance Modeling of Data Dissemination in Vehicular Ad Hoc Networks. , 2013, , .		1
62	Modeling and simulation for enterprise decision-making: Successful projects and approaches. , 2015, , .		1
63	A Discrete-Event Simulation tool for decision support in selecting project scheduling strategies. , 2017, , .		1
64	Towards a framework for comprehensive and systematic reliability evaluation of building management systems. , 2017, , .		1
65	Towards systematic reliability modeling of smart buildings. , 2017, , .		1
66	Project Schedule Simulation: Incorporating Human Factorsâ€™ Uncertainty and Featuresâ€™ Priority in Task Modeling. Journal of Software, 2015, 10, 939-960.	0.6	1
67	A Workflow for Continuous Performance Testing in Smart Buildings. Lecture Notes in Computer Science, 2018, , 54-59.	1.0	1
68	Why Nano-DSP Will be Fan-In Constrained. , 2007, , .		0
69	Proxel-Based Performability Analysis of Non-Markovian Phased-Mission Systems. , 2010, , .		0