Barbora Buhnova

List of Publications by Year in descending order

57 papers	1,142 citations	687363 13 h-index	454955 30 g-index
62 all docs	62 docs citations	62 times ranked	896 citing authors

#	Article	IF	Citations
1	Frustrations Steering Women Away From Software Engineering. IEEE Software, 2022, 39, 63-69.	1.8	7
2	A hybrid machine learning model for intrusion detection in VANET. Computing (Vienna/New York), 2022, 104, 503-531.	4.8	39
3	On Autonomous Dynamic Software Ecosystems. IEEE Transactions on Engineering Management, 2022, 69, 3633-3647.	3.5	7
4	A Cross-Domain Landscape of ICT Services in Smart Cities. Springer Optimization and Its Applications, 2022, , 63-95.	0.9	7
5	Game Achievement Analysis: Process Mining Approach. Lecture Notes in Computer Science, 2022, , 68-82.	1.3	0
6	Cybersecurity Analysis via Process Mining: A Systematic Literature Review. Lecture Notes in Computer Science, 2022, , 393-407.	1.3	3
7	Lightweight intrusion detection for edge computing networks using deep forest and bio-inspired algorithms. Computers and Electrical Engineering, 2022, 100, 107901.	4.8	9
8	Predictive Simulation within the Process of Building Trust. , 2022, , .		1
9	AI-Based Software Defect Prediction for Trustworthy Android Apps. , 2022, , .		1
10	Applying Process Discovery to Cybersecurity Training: An Experience Report. , 2022, , .		2
11	Effective measures to foster girlsâ€™ interest in secondary computer science education. Education and Information Technologies, 2021, 26, 2811-2829.	5.7	25
12	A Hybrid Data-driven Model for Intrusion Detection in VANET. Procedia Computer Science, 2021, 184, 516-523.	2.0	23
13	Recent Advances in Machine-Learning Driven Intrusion Detection in Transportation: Survey. Procedia Computer Science, 2021, 184, 877-886.	2.0	37
14	Towards faster big data analytics for antiâ€jamming applications in vehicular adâ€hoc network. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4280.	3.9	9
15	Using process mining for Git log analysis of projects in a software development course. Education and Information Technologies, 2021, 26, 5939-5969.	5.7	8
16	Architecture design evaluation of PaaS cloud applications using generated prototypes: PaaSArch Cloud Prototyper tool. Journal of Systems and Software, 2020, 169, 110701.	4.5	2
17	Improving Big Data Clustering for Jamming Detection in Smart Mobility. IFIP Advances in Information and Communication Technology, 2020, , 78-91.	0.7	2
18	Girl-Friendly Computer Science Classroom: Czechitas Experience Report. Communications in Computer and Information Science, 2020, , 125-137.	0.5	11

#	Article	IF	Citations
19	Simulation Games Platform for Unintentional Perpetrator Attack Vector Identification. , 2020, , .		3
20	Towards Process Mining Utilization in Insider Threat Detection from Audit Logs. , 2020, , .		5
21	The Suitability of Graph Databases for Big Data Analysis: A Benchmark. , 2020, , .		5
22	A Cross-Domain Comparative Study of Big Data Architectures. International Journal of Cooperative Information Systems, 2020, 29, 2030001.	0.8	0
23	PaaSArch: Quality Evaluation Tool for PaaS Cloud Applications Using Generated Prototypes. , 2019, , .		3
24	STRAIT: A Tool for Automated Software Reliability Growth Analysis. , 2019, , .		1
25	(Do Not) Trust in Ecosystems. , 2019, , .		28
26	A Research Roadmap of Big Data Clustering Algorithms for Future Internet of Things. International Journal of Organizational and Collective Intelligence, 2019, 9, 16-30.	0.3	5
27	Women Want to Learn Tech: Lessons from the Czechitas Education Project. , 2019, , .		10
28	Assisting women in career change towards software engineering. , 2019, , .		2
29	Quality Management for Big 3D Data Analytics: A Case Study of Protein Data Bank. , 2019, , .		1
30	Scaling Big Data Applications in Smart City with Coresets. , 2019, , .		7
31	Big Data for Internet of Things: A Survey. Future Generation Computer Systems, 2018, 87, 601-614.	7.5	215
32	Value-Driven Conceptualization of Services in the Smart City: A Layered Approach. New Economic Windows, 2018, , 85-98.	1.0	13
33	Moving towards Smart Cities: A Selection of Middleware for Fog-to-Cloud Services. Applied Sciences (Switzerland), 2018, 8, 2220.	2.5	10
34	Moving to the Edge-Cloud-of-Things: Recent Advances and Future Research Directions. Electronics (Switzerland), 2018, 7, 309.	3.1	57
35	Investigating the role of smartness for sustainability: insights from the Smart Grid domain. Sustainability Science, 2018, 13, 1299-1309.	4.9	48
36	Towards Discovering the Limits of Smart Grid Communication Infrastructure. Springer Proceedings in Business and Economics, 2018, , 87-99.	0.3	6

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37	Exploring Big Data Clustering Algorithms for Internet of Things Applications. , 2018, , .		18
38	A Systems View of Companiesâ€™ Communication in Online Social Environments. Journal of Organisational Transformation and Social Change, 2017, 14, 21-38.	0.4	4
39	Smart mobile technologies for the city of the future. , 2017, , .		3
40	Weather forecast based scheduling for demand response optimization in smart grids. , 2017, , .		6
41	System for Collection and Processing of Smart Home Sensor Data. , 2017, , .		7
42	Multi-Criteria Decision Analysis Methods in the Mobile Cloud Offloading Paradigm. Journal of Sensor and Actuator Networks, 2017, 6, 25.	3.9	16
43	ICT architecture for the Smart Grid: Concept overview. , 2016, , .		7
44	Anomaly detection in Smart Grid data: An experience report. , 2016, , .		37
45	Local load optimization in smart grids with Bayesian networks. , 2016, , .		7
46	Performance Challenges, Current Bad Practices, and Hints in PaaS Cloud Application Design. Performance Evaluation Review, 2016, 43, 3-12.	0.6	7
47	Architectural Tactics for the Design of Efficient PaaS Cloud Applications. , 2016, , .		6
48	Stateful component-based performance models. Software and Systems Modeling, 2014, 13, 1319-1343.	2.7	7
49	Guest editorial to the Special Issue on Component-Based Software Engineering and Software Architecture. Science of Computer Programming, 2014, 90, 67-70.	1.9	0
50	Software Architecture Optimization Methods: A Systematic Literature Review. IEEE Transactions on Software Engineering, 2013, 39, 658-683.	5.6	221
51	Architecture-Based Reliability Prediction with the Palladio Component Model. IEEE Transactions on Software Engineering, 2012, 38, 1319-1339.	5.6	82
52	Reliability-driven deployment optimization for embedded systems. Journal of Systems and Software, 2011, 84, 835-846.	4.5	35
53	Architecture-Driven Reliability and Energy Optimization for Complex Embedded Systems. Lecture Notes in Computer Science, 2010, , 52-67.	1.3	28
54	Parameterized Reliability Prediction for Component-Based Software Architectures. Lecture Notes in Computer Science, 2010, , 36-51.	1.3	27

#	Article	IF	Citations
55	Overview of Research Challenges towards Smart Grid Quality by Design. , 0, , .		3
56	Modelling System of Systems Interface Contract Behaviour. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 245, 1-15.	0.8	5
57	Better Scrum through Essence. Software - Practice and Experience, 0, , .	3.6	4