

Samuel Kounev

List of Publications by Year in descending order

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46
papers

727
citations

759233

12
h-index

677142

22
g-index

48
all docs

48
docs citations

48
times ranked

428
citing authors

#	ARTICLE	IF	CITATIONS
1	TeaStore: A Micro-Service Reference Application for Benchmarking, Modeling and Resource Management Research. , 2018, , .		71
2	Evaluating approaches to resource demand estimation. Performance Evaluation, 2015, 92, 51-71.	1.2	63
3	SimQPN – A tool and methodology for analyzing queueing Petri net models by means of simulation. Performance Evaluation, 2006, 63, 364-394.	1.2	61
4	Automated extraction of palladio component models from running enterprise Java applications. , 2009, , .		42
5	Chameleon: A Hybrid, Proactive Auto-Scaling Mechanism on a Level-Playing Field. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 800-813.	5.6	40
6	Autonomic QoS control in enterprise Grid environments using online simulation. Journal of Systems and Software, 2009, 82, 486-502.	4.5	36
7	Model-Based Self-Aware Performance and Resource Management Using the Descartes Modeling Language. IEEE Transactions on Software Engineering, 2017, 43, 432-452.	5.6	32
8	Sizeless. , 2021, , .		31
9	An Overview on Approaches for Coordination of Platoons. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10049-10065.	8.0	30
10	Modeling run-time adaptation at the system architecture level in dynamic service-oriented environments. Service Oriented Computing and Applications, 2014, 8, 73-89.	1.6	28
11	Architecture-level software performance abstractions for online performance prediction. Science of Computer Programming, 2014, 90, 71-92.	1.9	27
12	A Model-Based Approach to Designing Self-Aware IT Systems and Infrastructures. Computer, 2016, 49, 53-61.	1.1	27
13	An Expandable Extraction Framework for Architectural Performance Models. , 2017, , .		22
14	Autonomic Forecasting Method Selection: Examination and Ways Ahead. , 2019, , .		21
15	Performance modeling and analysis of message-oriented event-driven systems. Software and Systems Modeling, 2013, 12, 705-729.	2.7	20
16	The Impact of the German Strategy for Containment of Coronavirus SARS-CoV-2 on Training Characteristics, Physical Activity and Sleep of Highly Trained Kayakers and Canoeists: A Retrospective Observational Study. Frontiers in Sports and Active Living, 2020, 2, 579830.	1.8	20
17	A machine learning-based workflow for automatic detection of anomalies in machine tools. ISA Transactions, 2022, 125, 445-458.	5.7	14
18	On the Value of Service Demand Estimation for Auto-scaling. Lecture Notes in Computer Science, 2018, , 142-156.	1.3	13

#	ARTICLE	IF	CITATIONS
19	A Reference Architecture for Online Performance Model Extraction in Virtualized Environments. , 2016, , .		11
20	Time Series Forecasting for Self-Aware Systems. Proceedings of the IEEE, 2020, 108, 1068-1093.	21.3	11
21	Online model learning for self-aware computing infrastructures. Journal of Systems and Software, 2019, 147, 1-16.	4.5	10
22	Self-Tuning Resource Demand Estimation. , 2017, , .		9
23	A literature review on optimization techniques for adaptation planning in adaptive systems: State of the art and research directions. Information and Software Technology, 2022, 149, 106940.	4.4	8
24	Integrating Statistical Response Time Models in Architectural Performance Models. , 2019, , .		7
25	Detecting Parametric Dependencies for Performance Models Using Feature Selection Techniques. , 2019, , .		7
26	Model-Based Autonomic and Performance-Aware System Adaptation in Heterogeneous Resource Environments: A Case Study. , 2015, , .		6
27	SuanMing: Explainable Prediction of Performance Degradations in Microservice Applications. , 2021, , .		6
28	Tackling the rich vehicle routing problem with nature-inspired algorithms. Applied Intelligence, 2022, 52, 9476-9500.	5.3	6
29	A case study on the stability of performance tests for serverless applications. Journal of Systems and Software, 2022, 189, 111294.	4.5	6
30	Utilizing Clustering to Optimize Resource Demand Estimation Approaches. , 2019, , .		5
31	SARDE. ACM Transactions on Autonomous and Adaptive Systems, 2021, 15, 1-31.	0.8	5
32	Model-Based Performance Predictions for SDN-Based Networks: A Case Study. Lecture Notes in Computer Science, 2020, , 82-98.	1.3	5
33	Towards Adaptive Car-to-Cloud Communication. , 2019, , .		4
34	Why Is It Not Solved Yet?. , 2022, , .		4
35	Online Power Consumption Estimation for Functions in Cloud Applications. , 2019, , .		3
36	Towards Self-Aware Multirotor Formations. Computers, 2020, 9, 7.	3.3	3

#	ARTICLE	IF	CITATIONS
37	A Taxonomy of Techniques for SLO Failure Prediction in Software Systems. Computers, 2020, 9, 10.	3.3	3
38	Performance Evaluation for a Post-Quantum Public-Key Cryptosystem. , 2021, , .		2
39	Run-Time Models for Online Performance and Resource Management in Data Centers. , 2017, , 485-505.		1
40	Systematic Search for Optimal Resource Configurations of Distributed Applications. , 2019, , .		1
41	Towards a Cryptography Benchmark: A View on Attribute Based Encryption Schemes. , 2022, , .		1
42	A Simulation-Based Optimization Framework for Online Adaptation of Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 513-532.	0.3	0
43	Elasticity of Cloud Platforms. , 2020, , 319-340.		0
44	Resource Demand Estimation. , 2020, , 365-388.		0
45	Software Testing Strategies for Detecting Hypercall Handlers' Aging-related Bugs. , 2021, , .		0
46	Investigating the Predictability of QoS Metrics in Cellular Networks. , 2022, , .		0