

Daniel A Menascã©

List of Publications by Year in descending order

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742
citing authors

#	ARTICLE	IF	CITATIONS
1	Autonomic Elasticity Control for Multi-Server Queues Under Generic Workload Surges in Cloud Environments. IEEE Transactions on Cloud Computing, 2022, 10, 984-995.	3.1	3
2	A formal analysis of performance-security tradeoffs under frequent task reconfigurations. Future Generation Computer Systems, 2022, 127, 252-262.	4.9	4
3	Trust But Verify: A Framework for the Trustworthiness of Distributed Systems. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 2105-2121.	3.7	1
4	Performance Modeling of Moving Target Defenses with Reconfiguration Limits. IEEE Transactions on Dependable and Secure Computing, 2021, 18, 205-219.	3.7	28
5	A decentralized approach for discovering runtime software architectural models of distributed software systems. Information and Software Technology, 2021, 131, 106476.	3.0	0
6	Stochastic Optimization Algorithm based on Deterministic Approximations. , 2021, , .		0
7	Self-managed Computer Systems: Foundations and Examples. Lecture Notes in Business Information Processing, 2020, , 17-36.	0.8	1
8	Data-Driven Derivation of an Analytic Model for Parallel Servers With Job Replication. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 2435-2452.	4.0	2
9	Autonomic Resource Management Using Analytic Models for Fog/Cloud Computing. , 2019, , .		13
10	Characterization of IoT Workloads. Lecture Notes in Computer Science, 2019, , 1-15.	1.0	7
11	Factory optima: a web-based system for composition and analysis of manufacturing service networks based on a reusable model repository. International Journal of Computer Integrated Manufacturing, 2019, 32, 206-224.	2.9	8
12	TDQN: Trace-driven analytic queuing network modeling of computer systems. Journal of Systems and Software, 2019, 147, 162-171.	3.3	2
13	Efficient modeling and optimizing of checkpointing in concurrent component-based software systems. Journal of Systems and Software, 2018, 139, 1-13.	3.3	6
14	Model-Driven Elasticity Control for Multi-Server Queues under Traffic Surges in Cloud Environments. , 2018, , .		6
15	Stochastic decision optimisation based on deterministic approximations of processes described as closed-form arithmetic simulation. Journal of Decision Systems, 2018, 27, 227-235.	2.2	0
16	FogQN: An Analytic Model for Fog/Cloud Computing. , 2018, , .		15
17	An Analytic Model of Traffic Surges for Multi-Server Queues in Cloud Environments. , 2018, , .		4
18	Analysis and optimization based on reusable knowledge base of process performance models. International Journal of Advanced Manufacturing Technology, 2017, 88, 337-357.	1.5	17

#	ARTICLE	IF	CITATIONS
19	Variable Recovery and Adaptation Connectors for Dynamic Software Product Lines. , 2017, , .		1
20	DARE: A Distributed Adaptation and Failure Recovery Framework for Software Systems. , 2017, , .		13
21	Capacity planning for IaaS cloud providers offering multiple service classes. Future Generation Computer Systems, 2017, 77, 97-111.	4.9	35
22	Performance Modeling of Moving Target Defenses. , 2017, , .		26
23	Analysis and Autonomic Elasticity Control for Multi-Server Queues under Traffic Surges. , 2017, , .		6
24	Manufacturing and contract service networks: Composition, optimization and tradeoff analysis based on a reusable repository of performance models. , 2017, , .		4
25	Performance Model Derivation of Operational Systems through Log Analysis. , 2016, , .		4
26	Modular Modeling and Optimization of Temporal Manufacturing Processes with Inventories. , 2016, , .		0
27	A Taxonomy of Job Scheduling on Distributed Computing Systems. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 3412-3428.	4.0	34
28	Model-based Recovery Connectors for Self-adaptation and Self-healing. , 2016, , .		8
29	Analysis and optimization in smart manufacturing based on a reusable knowledge base for process performance models. , 2015, , .		7
30	Autonomic smart manufacturing. Journal of Decision Systems, 2015, 24, 206-224.	2.2	10
31	Predicting the Effect of Memory Contention in Multi-Core Computers Using Analytic Performance Models. IEEE Transactions on Computers, 2015, 64, 2279-2292.	2.4	10
32	Near-Optimal Allocation of VMs from IaaS Providers by SaaS Providers. , 2015, , .		10
33	Optimizing Stochastic Temporal Manufacturing Processes with Inventories: An Efficient Heuristic Algorithm Based on Deterministic Approximations. , 2015, , 30-46.		2
34	Autonomic Allocation of Communicating Virtual Machines in Hierarchical Cloud Data Centers. , 2014, , .		13
35	A contention aware hybrid evaluator for schedulers of big data applications in computer clusters. , 2014, , .		2
36	A meta-controller method for improving run-time self-architecting in SOA systems. , 2014, , .		6

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37	Toward smart manufacturing using decision analytics. , 2014, , .		8
38	Efficient Response Time Approximations for Multiclass Fork and Join Queues in Open and Closed Queuing Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1437-1446.	4.0	23
39	Self-protecting and self-optimizing database systems. , 2013, , .		3
40	Analytic Models of Applications in Multi-core Computers. , 2013, , .		5
41	Countering Network-Centric Insider Threats through Self-Protective Autonomic Rule Generation. , 2012, , .		6
42	An Autonomic Framework for Integrating Security and Quality of Service Support in Databases. , 2012, , .		11
43	Decision-Guided Self-Architecting Framework for integrated distribution and Energy Management. , 2011, , .		2
44	Defeating the insider threat via autonomic network capabilities. , 2011, , .		6
45	SASSY: A Framework for Self-Architecting Service-Oriented Systems. IEEE Software, 2011, 28, 78-85.	2.1	94
46	Utility-Based Optimal Service Selection for Business Processes in Service Oriented Architectures. , 2010, , .		16
47	Qos architectural patterns for self-architecting software systems. , 2010, , .		21
48	Self-Architecting Software SYstems (SASSY) from QoS-annotated activity models. , 2009, , .		17
49	The Insider Threat Security Architecture: A Framework for an Integrated, Inseparable, and Uninterrupted Self-Protection Mechanism. , 2009, , .		15
50	Policy-Based Enforcement of Database Security Configuration through Autonomic Capabilities. , 2008, , .		12
51	Utility-based QoS Brokering in Service Oriented Architectures. , 2007, , .		62
52	A business-oriented load dispatching framework for online auction sites. , 2007, , .		5
53	Two-level workload characterization of online auctions. Electronic Commerce Research and Applications, 2007, 6, 192-208.	2.5	12
54	Improving the Performance of Online Auctions Through Server-side Activity-based Caching. World Wide Web, 2007, 10, 181-204.	2.7	3

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55	Student Perceptions of Engineering Entrepreneurship: An Exploratory Study. Journal of Engineering Education, 2006, 95, 153-164.	1.9	55
56	A method for evaluating the impact of software configuration parameters on e-commerce sites. , 2005, , .		28
57	Server-Side Caching Strategies for Online Auction Sites. Lecture Notes in Computer Science, 2005, , 231-244.	1.0	3
58	MARVIN: A Web-Based System for Representing, Retrieving, and Visualizing Analogies. World Wide Web, 2004, 7, 385-419.	2.7	3
59	Simple analytic modeling of software contention. Performance Evaluation Review, 2002, 29, 24-30.	0.4	15
60	Analyzing robot behavior in e-business sites. Performance Evaluation Review, 2001, 29, 338-339.	0.4	4
61	Reusable component interconnection patterns for distributed software architectures. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2001, 26, 69-77.	0.5	3
62	Business-oriented resource management policies for e-commerce servers. Performance Evaluation, 2000, 42, 223-239.	0.9	100
63	In search of invariants for e-business workloads. , 2000, , .		102
64	Pythia and Pythia/WK: tools for the performance analysis of mass storage systems. Software - Practice and Experience, 1997, 27, 1035-1054.	2.5	1
65	An analytic model of hierarchical mass storage systems with network-attached storage devices. Performance Evaluation Review, 1996, 24, 180-189.	0.4	12