

Carlos Juiz

List of Publications by Year in descending order

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102
papers

1,206
citations

706676

14
h-index

488211

31
g-index

112
all docs

112
docs citations

112
times ranked

954
citing authors

#	ARTICLE	IF	CITATIONS
1	Veri Merkezi Topolojilerindeki Anahtarlama AygÄ±tlarÄ±nda Enerji Tasarrufuna YÄ¶nelik Aritmetik Ä±alÄ±Åma. Journal of Polytechnic, 2022, 25, 785-797.	0.4	2
2	Arithmetic Framework to Optimize Packet Forwarding among End Devices in Generic Edge Computing Environments. Sensors, 2022, 22, 421.	2.1	4
3	Modeling an Edge Computing Arithmetic Framework for IoT Environments. Sensors, 2022, 22, 1084.	2.1	5
4	A general method for evaluating the overhead when consolidating servers: performance degradation in virtual machines and containers. Journal of Supercomputing, 2022, 78, 11345-11372.	2.4	7
5	Performance and energy consumption tradeoff in server consolidation. BenchCouncil Transactions on Benchmarks, Standards and Evaluations, 2022, 2, 100060.	1.5	0
6	Model for the Intent to Adopt Green IT in the Context of Organizations. IEEE Access, 2022, 10, 65636-65657.	2.6	1
7	On the classification and quantification of server consolidation overheads. Journal of Supercomputing, 2021, 77, 23-43.	2.4	5
8	Success and Hindrance Factors of AHA-Oriented Open Service Platforms. Communications in Computer and Information Science, 2021, , 656-668.	0.4	2
9	Modelling a Plain N-Hypercube Topology for Migration in Fog Computing. Lecture Notes in Electrical Engineering, 2021, , 595-608.	0.3	3
10	Modeling of a Generic Edge Computing Application Design. Sensors, 2021, 21, 7276.	2.1	4
11	Delving Into the IT Governance-Management Communication Interface. International Journal of Digital Strategy, Governance, and Business Transformation, 2021, 11, 1-37.	0.4	2
12	Optimization policy for file replica placement in fog domains. Concurrency Computation Practice and Experience, 2020, 32, e5343.	1.4	7
13	Virtual machine consolidation: a systematic review of its overhead influencing factors. Journal of Supercomputing, 2020, 76, 324-361.	2.4	16
14	The \$\$CiS^2\$\$: a new metric for performance and energy trade-off in consolidated servers. Cluster Computing, 2020, 23, 2769-2788.	3.5	8
15	Exploring the relationships between dynamic capabilities and IT governance. Transforming Government: People, Process and Policy, 2020, 14, 149-169.	1.3	13
16	MQTT Algebraic Formal Modelling Using ACP. , 2020, , .		0
17	Governing IT in HEIs: Systematic Mapping Review. Business Systems Research, 2020, 11, 93-109.	0.5	6
18	Extending Software Development Governance to meet IT Governance. , 2020, , .		1

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19	Uncovering Two Decades of Open Innovation Benefits: A Qualitative Meta-Analysis. International Journal of Innovation and Technology Management, 2020, 17, .	0.8	5
20	A lightweight decentralized service placement policy for performance optimization in fog computing. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 2435-2452.	3.3	101
21	YAFS: A Simulator for IoT Scenarios in Fog Computing. IEEE Access, 2019, 7, 91745-91758.	2.6	136
22	How to Improve Board Accountability in ISO/IEC 38500 Based on IT Governance Implementations. International Journal on IT/Business Alignment and Governance, 2019, 10, 22-39.	0.7	2
23	Analyzing the Applicability of a Multi-Criteria Decision Method in Fog Computing Placement Problem. , 2019, , .		4
24	Evaluation and efficiency comparison of evolutionary algorithms for service placement optimization in fog architectures. Future Generation Computer Systems, 2019, 97, 131-144.	4.9	82
25	A Platform for Lightweight Deployment of IoT Applications Based on a Function-as-a-Service Model. IEEE Latin America Transactions, 2019, 17, 1155-1162.	1.2	1
26	Algebraic Formal Modelling for HTTP Main Methods using ACP. , 2019, , .		0
27	Virtualization and consolidation: a systematic review of the past 10 years of research on energy and performance. Journal of Supercomputing, 2019, 75, 808-836.	2.4	23
28	Availability-Aware Service Placement Policy in Fog Computing Based on Graph Partitions. IEEE Internet of Things Journal, 2019, 6, 3641-3651.	5.5	75
29	TOWARDS A SEMANTIC RESEARCH INFORMATION SYSTEM BASED ON RESEARCHERS' CV DOCUMENTS. International Journal for Quality Research, 2019, 13, 131-144.	0.5	1
30	Migration-Aware Genetic Optimization for MapReduce Scheduling and Replica Placement in Hadoop. Journal of Grid Computing, 2018, 16, 265-284.	2.5	27
31	Resource optimization of container orchestration: a case study in multi-cloud microservices-based applications. Journal of Supercomputing, 2018, 74, 2956-2983.	2.4	56
32	Genetic Algorithm for Multi-Objective Optimization of Container Allocation in Cloud Architecture. Journal of Grid Computing, 2018, 16, 113-135.	2.5	138
33	Cascading ISO/IEC 38500 based Balanced Score Cards to improve board accountability. Procedia Computer Science, 2018, 138, 417-424.	1.2	7
34	Multi-Objective Optimization for Virtual Machine Allocation and Replica Placement in Virtualized Hadoop. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 2568-2581.	4.0	37
35	Governing technology debt. , 2018, , .		3
36	Comparing centrality indices for network usage optimization of data placement policies in fog devices. , 2018, , .		14

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37	OSPF Algebraic Formal Modelling using ACP - A Formal Description on OSPF Routing Protocol. , 2018, , .		0
38	Algebraic Formal Modelling for EIGRP using ACP - Formal Description Modelling on EIGRP Routing Protocol. , 2018, , .		0
39	Study on OSPF Algebraic Formal Modelling Using ACP. Elektronika Ir Elektrotehnika, 2018, 24, .	0.4	3
40	Improving the Energy Efficiency in Cloud Computing Data Centres Through Resource Allocation Techniques. , 2017, , 211-236.		9
41	Towards an enhanced VM placement solution for power-aware cloud environments. , 2017, , .		0
42	Why the governance of projects, programs and portfolios (PPP) cannot be separated from the governance of IT standard. , 2017, , .		7
43	e-Health should be governed as other assets in healthcare organizations. , 2017, , .		1
44	Analysing human mobility patterns of hiking activities through complex network theory. PLoS ONE, 2017, 12, e0177712.	1.1	12
45	An Up-to-date Survey in Barriers to Open Innovation. Journal of Technology Management and Innovation, 2016, 11, 137-152.	0.5	13
46	Use of Mobile Devices in the Classroom to Increase Motivation and Participation of Engineering University Students. IEEE Latin America Transactions, 2016, 14, 411-416.	1.2	8
47	Cloud Resource Management to Improve Energy Efficiency Based on Local Nodes Optimizations. Procedia Computer Science, 2016, 83, 878-885.	1.2	6
48	Balancing Performances in Online VM Placement. Advances in Intelligent Systems and Computing, 2016, , 153-162.	0.5	9
49	Current prospects towards energy-efficient top HPC systems. Computer Science and Information Systems, 2016, 13, 151-171.	0.7	4
50	To govern IT, or not to govern IT?. Communications of the ACM, 2015, 58, 58-64.	3.3	45
51	Community-based VM placement framework. Journal of Supercomputing, 2015, 71, 4504-4528.	2.4	19
52	Enhanced Service Discovery via Shared Context in a Distributed Architecture. , 2015, , .		0
53	Community-based complex cloud data center. Physica A: Statistical Mechanics and Its Applications, 2015, 419, 356-372.	1.2	9
54	Opportunities and Challenges for Green HPC. Advances in Intelligent Systems and Computing, 2015, , 45-54.	0.5	1

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55	Indicators and functionalities of exploitation of academic staff CV using semantic web technologies. , 2014, , .		0
56	Sustainability in Web server systems. Computers in Industry, 2014, 65, 401-407.	5.7	3
57	Complex Cloud Datacenters. IERI Procedia, 2014, 7, 8-14.	0.3	2
58	Implementing Good Governance Principles for the Public Sector in Information Technology Governance Frameworks. Open Journal of Accounting, 2014, 03, 9-27.	0.4	37
59	Performance improvement of web caching in Web 2.0 via knowledge discovery. Journal of Systems and Software, 2013, 86, 2970-2980.	3.3	2
60	Research line on improving energy efficiency in web servers. , 2013, , .		2
61	Integration of Emergency Web App for accessing the emergency services by mobile phones. , 2013, , .		2
62	An Approximation of Energy Efficiency in Web Systems. Procedia Computer Science, 2013, 18, 2595-2598.	1.2	4
63	Business/IT Projects Alignment through the Project Portfolio Approval Process as IT Governance Instrument. Procedia, Social and Behavioral Sciences, 2012, 65, 70-75.	0.5	11
64	Adaptive admission control algorithm in a QoS-aware Web system. Information Sciences, 2012, 199, 58-77.	4.0	12
65	Improving Web Cache Performance via Adaptive Content Fragmentation Design. , 2011, , .		4
66	From the Origins of Performance Evaluation to New Green ICT Performance Engineering. Lecture Notes in Computer Science, 2011, , 49-60.	1.0	1
67	An up-to-date survey in web load balancing. World Wide Web, 2011, 14, 105-131.	2.7	39
68	Transforming passive users into service providers via semantic enhanced service oriented architecture. , 2011, , .		0
69	Accommodating Short and Long Web Traffic Flows over a DiffServ Architecture. Lecture Notes in Computer Science, 2011, , 14-28.	1.0	1
70	OWL-M Extension for Semantic Representations of Ontology Alignments. , 2010, , .		5
71	A Statistically Customisable Web Benchmarking Tool. Electronic Notes in Theoretical Computer Science, 2009, 232, 89-99.	0.9	4
72	Analysis of burstiness monitoring and detection in an adaptive Web system. Computer Networks, 2009, 53, 668-679.	3.2	11

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73	Web Mining Service (WMS), a Public and Free Service for Web Data Mining. , 2009, , .		1
74	Adaptive admission control algorithm in a QoS-aware Web system. , 2009, , .		3
75	Web Performance and Behavior Ontology. , 2008, , .		3
76	Scalable QoS Content-Aware Load Balancing Algorithm for a Web Switch Based on Classical Policies. , 2008, , .		6
77	Web performance engineering based on ontological languages and semantic web. International Journal of Computer Applications in Technology, 2008, 33, 300.	0.3	1
78	Semantic Interactions for Context-Aware and Service-Oriented Architecture. Lecture Notes in Computer Science, 2008, , 407-414.	1.0	1
79	An approach to ontology-aided performance engineering through NFR framework. , 2007, , .		6
80	Handling HTTP flows over a DiffServ framework. , 2007, , .		1
81	Promoting web traffic over a DiffServ architecture. , 2007, , .		0
82	Service Differentiation and QoS in a Scalable Content-Aware Load Balancing Algorithm. , 2007, , .		5
83	Performance assessment of intelligent distributed systems through software performance ontology engineering (SPOE). Software Quality Journal, 2007, 15, 53-67.	1.4	5
84	A Token Bucket Model with Assured Forwarding for Web Traffic. , 2007, , 298-307.		0
85	Performance-related ontologies and semantic web applications for on-line performance assessment of intelligent systems. Science of Computer Programming, 2006, 61, 27-37.	1.5	17
86	Predictive-adaptive algorithm for a cluster-based network web servers. IEEE Latin America Transactions, 2006, 4, 62-68.	1.2	1
87	Performance-related Ontologies for Ubiquitous Intelligence based on Semantic Web Applications. , 2006, , .		1
88	Context-Broker Service Architecture for Aml Systems Through Mobile-Agents and Ontologies as Middleware. Lecture Notes in Computer Science, 2006, , 907-916.	1.0	1
89	Evaluating the performance of architectures in MASCOT. Science of Computer Programming, 2005, 57, 45-60.	1.5	0
90	Web Operational Analysis Through Performance-Related Ontologies in OWL for Intelligent Applications. Lecture Notes in Computer Science, 2005, , 612-614.	1.0	4

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91	Performance assessment on ambient intelligent applications through ontologies. , 2005, , .		7
92	Integrating System Performance Engineering into MASCOT Methodology through Discrete-Event Simulation. Lecture Notes in Computer Science, 2004, , 278-292.	1.0	3
93	Performance Analysis of a Predictive and Adaptive Algorithm in Cluster-Based Network Servers with Resource Allocation. Lecture Notes in Computer Science, 2004, , 615-626.	1.0	0
94	Performance modelling of pools in soft real-time design architectures. Simulation Modelling Practice and Theory, 2002, 9, 215-240.	0.4	9
95	Performance Modelling of Interaction Protocols in Soft Real-Time Design Architectures. Lecture Notes in Computer Science, 2001, , 300-316.	1.0	3
96	Improved performance model of a real-time software element: the producer-consumer. , 0, , .		4
97	Performance analysis of multiclass data transfer elements in soft real-time systems. , 0, , .		1
98	Performance analysis of pools in soft real-time design architectures. , 0, , .		0
99	Performance modelling of interaction protocols for component-based system design using object-oriented simulation. , 0, , .		1
100	Adapting MASCOT methodology to software performance engineering using object-oriented simulation. , 0, , .		1
101	Comparison of predictive techniques in cluster-based network servers with resource allocation. , 0, , .		6
102	Semantic Model for Facial Emotion to Improve the Human Computer Interaction in Aml. Advances in Soft Computing, 0, , 139-148.	0.4	2