Cristiano AndrÃ© da Costa

List of Publications by Year
in descending order

154 papers	3,446 citations	230014 27 h-index	182931 54 g-index
157 all docs	157 docs citations	157 times ranked	3418 citing authors

#	Article	IF	Citations
1	Serverless computing for Internet of Things: A systematic literature review. Future Generation Computer Systems, 2022, 128, 299-316.	4.9	38
2	First and second COVID-19 waves in Brazil: A cross-sectional study of patientsâ€™ characteristics related to hospitalization and in-hospital mortality. The Lancet Regional Health Americas, 2022, 6, 100107.	1.5	47
3	A predictive maintenance model for optimizing production schedule using deep neural networks. Journal of Manufacturing Systems, 2022, 62, 450-462.	7.6	30
4	Semantic interoperability in health records standards: a systematic literature review. Health and Technology, 2022, 12, 255-272.	2.1	46
5	Method for evaluating roughness and valley areas coefficients of surfaces acquired by laser scanner. Scientific Reports, 2022, 12, 1486.	1.6	2
6	Federated Learning for Healthcare: Systematic Review and Architecture Proposal. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-23.	2.9	116
7	The HoPE Model Architecture: a Novel Approach to Pregnancy Information Retrieval Based on Conversational Agents. Journal of Healthcare Informatics Research, 2022, , 1-42.	5.3	1
8	A Fog and Blockchain Software Architecture for a Global Scale Vaccination Strategy. IEEE Access, 2022, 10, 44290-44304.	2.6	13
9	A rapid review of machine learning approaches for telemedicine in the scope of COVID-19. Artificial Intelligence in Medicine, 2022, 129, 102312.	3.8	10
10	Smart Hospitals and IoT Sensors: Why Is QoS Essential Here?. Journal of Sensor and Actuator Networks, 2022, 11, 33.	2.3	11
11	Evaluating the use of chatbot during pregnancy: A usability study. Healthcare Analytics, 2022, 2, 100072.	2.6	4
12	DeepSigns: A predictive model based on Deep Learning for the early detection of patient health deterioration. Expert Systems With Applications, 2021, 165, 113905.	4.4	29
13	A Survey About Real-Time Location Systems in Healthcare Environments. Journal of Medical Systems, 2021, 45, 35.	2.2	11
14	A Critical Analysis of Red Ceramic Blocks Roughness Estimation by 2D and 3D Methods. Remote Sensing, 2021, 13, 789.	1.8	3
15	Integrating multiple blockchains to support distributed personal health records. Health Informatics Journal, 2021, 27, 146045822110075.	1.1	5
16	Transformers aftermath. Communications of the ACM, 2021, 64, 154-163.	3.3	7
17	Simplifying IoT data stream enrichment and analytics in the edge. Computers and Electrical Engineering, 2021, 92, 107110.	3.0	4
18	Making the COVID-19 Pandemic a Driver for Digital Health: Brazilian Strategies. JMIR Public Health and Surveillance, 2021, 7, e28643.	1.2	12

#	Article	IF	Citations
19	Internet of Things in active cancer Treatment: A systematic review. Journal of Biomedical Informatics, 2021, 118, 103814.	2.5	18
20	Helastic: On combining threshold-based and Serverless elasticity approaches for optimizing the execution of bioinformatics applications. Journal of Computational Science, 2021, 53, 101407.	1.5	4
21	A feature identification method to explain anomalies in condition monitoring. Computers in Industry, 2021, 133, 103528.	5.7	6
22	DeepBatch: A hybrid deep learning model for interpretable diagnosis of breast cancer in whole-slide images. Expert Systems With Applications, 2021, 185, 115586.	4.4	20
23	Breast cancer intelligent analysis of histopathological data: A systematic review. Applied Soft Computing Journal, 2021, 113, 107886.	4.1	12
24	HealthMon: An approach for monitoring machines degradation using time-series decomposition, clustering, and metaheuristics. Computers and Industrial Engineering, 2021, 162, 107709.	3.4	3
25	FogChain: A Fog Computing Architecture Integrating Blockchain and Internet of Things for Personal Health Records. IEEE Access, 2021, 9, 122723-122737.	2.6	26
26	On revisiting energy and performance in microservices applications: A cloud elasticity-driven approach. Parallel Computing, 2021, 108, 102858.	1.3	8
27	Data structuring of electronic health records: a systematic review. Health and Technology, 2021, 11, 1219-1235.	2.1	4
28	Enhancing performance of IoT applications with load prediction and cloud elasticity. Future Generation Computer Systems, 2020, 109, 689-701.	4.9	14
29	Electronic health records in a Blockchain: A systematic review. Health Informatics Journal, 2020, 26, 1273-1288.	1.1	113
30	ElHealth: Using Internet of Things and data prediction for elastic management of human resources in smart hospitals. Engineering Applications of Artificial Intelligence, 2020, 87, 103285.	4.3	25
31	Context awareness in healthcare: a systematic literature review. Universal Access in the Information Society, 2020, 19, 245-259.	2.1	14
32	Use of Internet of Things With Data Prediction on Healthcare Environments. International Journal of E-Health and Medical Communications, 2020, 11, 1-19.	1.4	3
33	Application of artificial intelligence methods in vital signs analysis of hospitalized patients: A systematic literature review. Applied Soft Computing Journal, 2020, 96, 106612.	4.1	22
34	Predictive maintenance in the Industry 4.0: A systematic literature review. Computers and Industrial Engineering, 2020, 150, 106889.	3.4	391
35	Collaborative humanless model for automatic pothole detection and driver notification. International Journal of Computational Science and Engineering, 2020, 22, 280.	0.4	0
36	ElBench: a microbenchmark to evaluate virtual machine and container strategies on executing elastic applications in the cloud. International Journal of Computational Science and Engineering, 2020, 21, 457.	0.4	0

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37	Fog computing in health: A systematic literature review. Health and Technology, 2020, 10, 1025-1044.	2.1	29
38	A survey on decision-making based on system reliability in the context of Industry 4.0. Journal of Manufacturing Systems, 2020, 56, 133-156.	7.6	78
39	Looking at energy through the lens of Industry 4.0: A systematic literature review of concerns and challenges. Computers and Industrial Engineering, 2020, 143, 106426.	3.4	65
40	Segmentation of Masses on Mammograms Using Data Augmentation and Deep Learning. Journal of Digital Imaging, 2020, 33, 858-868.	1.6	45
41	Exploring publish/subscribe, multilevel cloud elasticity, and data compression in telemedicine. Computer Methods and Programs in Biomedicine, 2020, 191, 105403.	2.6	4
42	Intelligent personal assistants: A systematic literature review. Expert Systems With Applications, 2020, 147, 113193.	4.4	129
43	Towards combining data prediction and internet of things to manage milk production on dairy cows. Computers and Electronics in Agriculture, 2020, 169, 105156.	3.7	36
44	Conversational agents in business: A systematic literature review and future research directions. Computer Science Review, 2020, 36, 100239.	10.2	63
45	Baptizo: A sensor fusion based model for tracking the identity of human poses. Information Fusion, 2020, 62, 1-13.	11.7	8
46	When SDN meets C-RAN: A survey exploring multi-point coordination, interference, and performance. Journal of Network and Computer Applications, 2020, 162, 102655.	5.8	9
47	L7SP: a layer seven service provider for private blockchain systems. International Journal of Blockchains and Cryptocurrencies, 2020, 1, 236.	0.2	0
48	Looking at performance metrics and scalability challenges in the context of microservices: a survey. International Journal of High Performance Computing and Networking, 2020, 16, 221.	0.4	0
49	A Survey of Sensors in Healthcare Workflow Monitoring. ACM Computing Surveys, 2019, 51, 1-37.	16.1	23
50	Toward a Model for Personal Health Record Interoperability. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 867-873.	3.9	43
51	New Method for Evaluating Surface Roughness Parameters Acquired by Laser Scanning. Scientific Reports, 2019, 9, 15038.	1.6	37
52	Towards Evaluating Proactive and Reactive Approaches on Reorganizing Human Resources in IoT-Based Smart Hospitals. Sensors, 2019, 19, 3800.	2.1	6
53	On Providing Multi-Level Quality of Service for Operating Rooms of the Future. Sensors, 2019, 19, 2303.	2.1	6
54	Elastic-RAN: An adaptable multi-level elasticity model for Cloud Radio Access Networks. Computer Communications, 2019, 142-143, 34-47.	3.1	6

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55	Analyzing the performance of a blockchain-based personal health record implementation. Journal of Biomedical Informatics, 2019, 92, 103140.	2.5	107
56	Survey of conversational agents in health. Expert Systems With Applications, 2019, 129, 56-67.	4.4	204
57	On providing on-the-fly resizing of the elasticity grain when executing HPC applications in the cloud. International Journal of Computational Science and Engineering, 2019, 20, 439.	0.4	0
58	A systematic literature review of data forecast and internet of things on the e-health landscape. International Journal of Computational Medicine and Healthcare, 2019, 1, 34.	0.0	1
59	Educational data modelling using curve fitting and average uniform algorithm. International Journal of Grid and Utility Computing, 2019, 10, 3.	0.1	1
60	Reducing Cost and Time-to-Market on Supporting Driver Assistance Systems to Avoid Rear-end Collisions in Vehicles Traffic. , 2019, , .		2
61	A Strategy Using Continuous Simulation to Mitigate Effort Estimation Risks in Software Projects. IEEE Latin America Transactions, 2019, 17, 1390-1398.	1.2	2
62	Toward analyzing mutual interference on infrared-enabled depth cameras. Computer Vision and Image Understanding, 2019, 178, 1-15.	3.0	6
63	Nuoxus: A proactive caching model to manage multimedia content distribution on fog radio access networks. Future Generation Computer Systems, 2019, 93, 143-155.	4.9	7
64	Towards providing middleware-level proactive resource reorganisation for elastic HPC applications in the cloud. International Journal of Grid and Utility Computing, 2019, 10, 76.	0.1	2
65	A Survey on Global Management View: Toward Combining System Monitoring, Resource Management, and Load Prediction. Journal of Grid Computing, 2019, 17, 473-502.	2.5	19
66	AgriPrediction: A proactive internet of things model to anticipate problems and improve production in agricultural crops. Computers and Electronics in Agriculture, 2019, 161, 202-213.	3.7	73
67	GTTracker: Location-aware hierarchical model for identifying M-commerce business opportunities. Peer-to-Peer Networking and Applications, 2019, 12, 13-31.	2.6	2
68	Towards Characterizing Architecture and Performance in Blockchain: A Survey. International Journal of Blockchains and Cryptocurrencies, 2019, 1, 1.	0.2	0
69	Pipel: Exploiting Resource Reorganization to Optimize Performance of Pipeline-Structured Applications in the Cloud. International Journal of Computational Systems Engineering, 2019, 5, 1.	0.2	0
70	A Hospital Bed Allocation Hybrid Model Based on Situation Awareness. CIN - Computers Informatics Nursing, 2018, 36, 249-255.	0.3	11
71	ElCity: An Elastic Multilevel Energy Saving Model for Smart Cities. IEEE Transactions on Sustainable Computing, 2018, 3, 30-43.	2.2	19
72	MigPF: Towards on self-organizing process rescheduling of Bulk-Synchronous Parallel applications. Future Generation Computer Systems, 2018, 78, 272-286.	4.9	5

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73	A lightweight plug-and-play elasticity service for self-organizing resource provisioning on parallel applications. Future Generation Computer Systems, 2018, 78, 176-190.	4.9	14
74	Spontaneous Social Network: toward dynamic virtual communities based on context-aware computing. Expert Systems With Applications, 2018, 95, 72-87.	4.4	7
75	Explorando o paradigma Publish/Subscribe e a elasticidade em nÃveis aplicados ao procedimento de Telemedicina. Revista Brasileira De ComputaÃ§Ã£o Aplicada, 2018, 10, 11-22.	0.1	0
76	A Proposal for Postpartum Support Based on Natural Language Generation Model. , 2018, , .		6
77	Internet of Health Things: Toward intelligent vital signs monitoring in hospital wards. Artificial Intelligence in Medicine, 2018, 89, 61-69.	3.8	187
78	Towards Combining Reactive and Proactive Cloud Elasticity on Running HPC Applications. , 2018, , .		3
79	INTERACT: Um modelo baseado em contextos para motivaÃ§Ã£o de interaÃ§Ãµes em Redes Sociais Educacionais. Revista ObservatÃ³rio, 2018, 4, 399-420.	0.0	0
80	OmniPHR: A distributed architecture model to integrate personal health records. Journal of Biomedical Informatics, 2017, 71, 70-81.	2.5	304
81	A Semantic-Based Model for Triage Patients in Emergency Departments. Journal of Medical Systems, 2017, 41, 65.	2.2	4
82	A Mapping Study on Mobile Games for Patients of Chronic Diseases. Journal of Medical Systems, 2017, 41, 138.	2.2	5
83	Towards Enabling Live Thresholding as Utility to Manage Elastic Master-Slave Applications in the Cloud. Journal of Grid Computing, 2017, 15, 535-556.	2.5	6
84	Elastipipe: On Providing Cloud Elasticity for Pipeline-structured Applications. Lecture Notes on Data Engineering and Communications Technologies, 2017, , 293-304.	0.5	0
85	Brokel: Towards enabling multi-level cloud elasticity on publish/subscribe brokers. International Journal of Distributed Sensor Networks, 2017, 13, 155014771772886.	1.3	2
86	On exploring proactive cloud elasticity for internet of things demands. , 2017, , .		3
87	PEPCONTEXTUAL: definiÃ§Ã£o de um prontuÃ¡rio eletrÃ´nico de paciente ciente de contexto. Revista Brasileira De ComputaÃ§Ã£o Aplicada, 2017, 9, 43.	0.1	0
88	Personal Health Records: A Systematic Literature Review. Journal of Medical Internet Research, 2017, 19, e13.	2.1	257
89	On providing on-the-fly resizing of the elasticity grain when executing HPC applications in the cloud. International Journal of Computational Science and Engineering, 2017, 1, 1.	0.4	0
90	Observing Network Performance and Congestion on Managing Assets with RFID and Cloud Computing. Journal of Computer and Communications, 2017, 05, 43-66.	0.6	3

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91	Elastic Management of Physical Spaces and Objects in Multi-Hospital Environments. , 2016, , .		1
92	A proposal of knowledge base for applications in the scope of HIV/AIDS. , 2016, , .		0
93	Automatic clocking and idleness management in enterprise environments using wireless sensors. , 2016, , .		0
94	Proposal of a network congestion-aware RFID model for online management of assets. , 2016, , .		0
95	Towards a multilevel energy saving model for smart cities. , 2016, , .		0
96	Jointâ€analysis of performance and energy consumption when enabling cloud elasticity for synchronous HPC applications. Concurrency Computation Practice and Experience, 2016, 28, 1548-1571.	1.4	9
97	Exploring cloud elasticity on developing an EPCGlobal-compliant middleware. , 2016, , .		1
98	AutoElastic: Automatic Resource Elasticity for High Performance Applications in the Cloud. IEEE Transactions on Cloud Computing, 2016, 4, 6-19.	3.1	63
99	Hefestos: an intelligent system applied to ubiquitous accessibility. Universal Access in the Information Society, 2016, 15, 589-607.	2.1	29
100	A model for learning objects adaptation in light of mobile and context-aware computing. Personal and Ubiquitous Computing, 2016, 20, 167-184.	1.9	37
101	A food allergy risk detection model based on situation awareness. Journal of Applied Computing Research, 2016, 5, .	0.4	1
102	Using Computational Geometry to Improve Process Rescheduling on Round-Based Parallel Applications. Scalable Computing, 2016, 17, .	0.7	0
103	A Proposal of Dynamic Content Search in aUbiquitous Tourist Guid. , 2015, , .		0
104	MigBSP++: Improving process rescheduling on Bulk-Synchronous Parallel applications. , 2015, , .		0
105	A Context-Aware Spontaneous Mobile Social Network. , 2015, , .		4
106	On the replacement of objects from round-based applications over heterogeneous environments. Software - Practice and Experience, 2015, 45, 633-656.	2.5	2
107	Towards Cloud-based Asynchronous Elasticity for Iterative HPC Applications. Journal of Physics: Conference Series, 2015, 649, 012006.	0.3	3
108	Cloud elasticity for HPC applications: Observing energy, performance and cost. , 2015, , .		0

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109	Exploring the social Internet of Things concept in a univeristy campus using NFC. , 2015, , .		2
110	An intelligent model for logistics management based on geofencing algorithms and RFID technology. Expert Systems With Applications, 2015, 42, 6082-6097.	4.4	83
111	Rescheduling and checkpointing as strategies to run synchronous parallel programs on P2P desktop grids. , 2015, , .		1
112	Onisciente: um modelo de geraÃ§Ã£o de contexto baseado em RFID e sensores. Revista Brasileira De ComputaÃ§Ã£o Aplicada, 2015, 7, .	0.1	0
113	Internet of things scalability: Analyzing the bottlenecks and proposing alternatives. , 2014, , .		8
114	Faster seam carving with minimum energy windows. , 2014, , .		1
115	LoadEFT: Efficient scheduler proposal for electronic funds transfer companies. , 2014, , .		0
116	Redesigning transaction load balancing on electronic funds transfer scenarios. , 2014, , .		0
117	Towards a quality model for model composition effort. , 2014, , .		2
118	Future directions for providing better IoT infrastructure. , 2014, , .		25
119	A multi-tiered model for context-aware systems. , 2014, , .		0
120	A spontaneous social network based on mobile devices. Social Network Analysis and Mining, 2014, 4, 1.	1.9	6
121	A novel framework for supporting the exponential worldwide adoption of electronic transactions. , 2014, , .		0
122	UbitourAR: A ubiquitous tourism model based on augmented reality. Journal of Applied Computing Research, 2014, 4, .	0.4	4
123	SWTRACK: An intelligent model for cargo tracking based on off-the-shelf mobile devices. Expert Systems With Applications, 2013, 40, 2023-2031.	4.4	43
124	Developing a ubiquitous tourist guide. , 2013, , .		3
125	A smart wheelchair based on ubiquitous computing. , 2013, , .		4
126	Towards a distributed architecture for context-aware mobile applications in UbiComp. , 2013, , .		8

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127	Expert user discovery in a spontaneous social network an approach using knowledge retrieval. , 2013, , .		1
128	A proposal of an infrastructure for load-balancing transactions on electronic funds transfer systems. Journal of Applied Computing Research, 2013, 2, .	0.4	0
129	DynamiCC. , 2012, , .		0
130	Hefestos. , 2012, , .		7
131	Mingle spontaneous social network. , 2012, , .		2
132	Implementing a Spontaneous Social Network for Managing Ubiquitous Interactions. , 2012, , .		3
133	U'Ductor: A Model for Supporting Ubiquitous Chronic Disease Care Management. , 2012, , .		1
134	Efficient combination of DNS, P2P and mobile devices for improving commerce between supliers and consumers. , 2012, , .		0
135	A distributed architecture for dynamic contexts composition in Ubicomp. , 2012, , .		1
136	Managing adaptation in Ubicomp. , 2012, , .		3
137	A model for context awareness in Ubicomp. , 2012, , .		10
138	Towards a programming model for context-aware applications. Computer Languages, Systems and Structures, 2012, 38, 199-213.	1.4	6
139	A Proposal of a Mobile Payment System Based on Android. , 2012, , .		0
140	A Model for Mobile Payment in Ubiquitous Commerce. , 2011, , .		1
141	MUCS: A model for ubiquitous commerce support. Electronic Commerce Research and Applications, 2011, 10, 237-246.	2.5	23
142	An ontology-based repository for a spontaneous social network. , 2011, , .		4
143	A Model to Explore Business Opportunities in Ubiquitous Environments. , 2010, , .		0
144	A Primer of Ubiquitous Computing Challenges and Trends. , 2010, , 282-303.		3

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145	Continuum: A service-based software infrastructure for ubiquitous computing. , 2009, , .		3
146	Toward a General Software Infrastructure for Ubiquitous Computing. IEEE Pervasive Computing, 2008, 7, 64-73.	1.1	101
147	On the control of adaptation in ubiquitous computing. , 2008, , .		3
148	GHolo: a multiparadigm model oriented to development of grid systems. Future Generation Computer Systems, 2005, 21, 227-237.	4.9	5
149	Multiparadigm Model Oriented to Development of Grid Systems. Lecture Notes in Computer Science, 2004, , 2-9.	1.0	0
150	Zoom Preditivo: PrediÃ§Ã£o de InteraÃ§Ã£o na VisualizaÃ§Ã£o de Dados na I4.0 Utilizando o PrincÃpio de InovaÃ§Ã£o. , 0, , .		0
151	UnivChain: um modelo para autenticaÃ§Ã£o de documentos acadÃªmicos baseado em blockchain. , 0, , .		0
152	Combinando Internet das Coisas, InteligÃªncia Artificial e Blockchain para Monitorar a Cadeia de AgroquÃmicos. , 0, , .		1
153	Impact of Thresholds and Load Patterns when Executing HPC Applications with Cloud Elasticity. CLEI Electronic Journal, 0, , .	0.2	0
154	On Proposing an Intelligent Model for Tracking Agrochemicals. Internet Technology Letters, 0, , .	1.4	1