Ernesto Exposito

List of Publications by Year
in descending order

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91	1,300	840585 11	414303 32
papers	citations	h-index	g-index

107	107	107	1464
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enabling Technologies for Green Internet of Things. IEEE Systems Journal, 2017, 11, 983-994.	2.9	268
2	Towards the Deployment of Machine Learning Solutions in Network Traffic Classification: A Systematic Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 1988-2014.	24.8	204
3	Handling big data: research challenges and future directions. Journal of Supercomputing, 2016, 72, 1494-1516.	2.4	103
4	A Semantic Big Data Platform for Integrating Heterogeneous Wearable Data in Healthcare. Journal of Medical Systems, 2015, 39, 185.	2.2	83
5	Industry 4.0: survey from a system integration perspective. International Journal of Computer Integrated Manufacturing, 2020, 33, 1017-1041.	2.9	78
6	A Model-Driven Methodology for the Design of Autonomic and Cognitive IoT-Based Systems: Application to Healthcare. IEEE Transactions on Emerging Topics in Computational Intelligence, 2017, 1, 224-234.	3.4	69
7	Autonomic computing in manufacturing process coordination in industry 4.0 context. Journal of Industrial Information Integration, 2020, 19, 100159.	4.3	44
8	MAPE-K as a service-oriented architecture. IEEE Latin America Transactions, 2017, 15, 1163-1175.	1.2	33
9	A collaborative methodology for tacit knowledge management: Application to scientific research. Future Generation Computer Systems, 2016, 54, 450-455.	4.9	30
10	On Blockchain Integration with Supply Chain: Overview on Data Transparency. Logistics, 2021, 5, 46.	2.4	26
11	ARMISCOM: Autonomic reflective middleware for management service composition. , 2012, , .		24
12	Knowledge as a Service Framework for Disaster Data Management. , 2013, , .		24
13	CARMiCLOC: Context Awareness Middleware in Cloud Computing. , 2015, , .		22
14	Digital factory system for dynamic manufacturing network supporting networked collaborative product development. Data and Knowledge Engineering, 2016, 105, 130-154.	2.1	20
15	QoS-oriented MPTCP Extensions for Multimedia Multi-homed Systems. , 2012, , .		16
16	Building self-optimized communication systems based on applicative cross-layer information. Computer Standards and Interfaces, 2009, 31, 354-361.	3.8	11
17	yPBL methodology: A problem-based learning method applied to software engineering. , 2010, , .		10
18	QoS-aware multipath-TCP extensions for mobile and multimedia applications. , 2011, , .		9

#	Article	IF	Citations
19	Sensor observation streams within cloud-based IoT platforms: Challenges and directions. , 2017, , .		9
20	Fog computing for the integration of agents and web services in an autonomic reflexive middleware. Service Oriented Computing and Applications, 2018, 12, 333-347.	1.3	9
21	Introducing a cross-layer interpreter for multimedia streams. Computer Networks, 2008, 52, 1125-1141.	3.2	8
22	A framework of models for QoS-oriented adaptive deployment of multi-layer communication services in group cooperative activities. Computer Communications, 2008, 31, 3003-3017.	3.1	8
23	A Multimedia Ontology Driven Architecture framework (MODA) for networked multimedia systems. , 2009, , .		8
24	ARMISCOM: self-healing service composition. Service Oriented Computing and Applications, 2017, 11, 345-365.	1.3	8
25	Collaborative knowledge as a service applied to the disaster management domain. International Journal of Cloud Computing, 2015, 4, 5.	0.3	7
26	Multipath TCP Architecture for Infotainment Multimedia Applications in Vehicular Networks. , 2015, , .		7
27	Computing Resource Allocation Scheme for DAG-Based IOTA Nodes. Sensors, 2021, 21, 4703.	2.1	7
28	Compositional Architecture Pattern for QoS-Oriented Communication Mechanisms. , 0, , .		6
29	New generation of transport protocols for autonomous systems. , 2010, , .		6
30	An energy-aware TCP for multimedia streaming. , 2013, , .		6
31	Towards the internet of everything: Deployment scenarios for a QoO-aware integration platform. , 2018, , .		6
32	Differential VoIP service in Wi-Fi networks and priority QoS maps. , 2005, , .		5
33	Seeking VoIP QoS in physical space. , 2005, , .		5
34	Using the XQoS platform for designing and developing the QoS-seeker system. , 0, , .		5
35	A Cross-Layer Approach to Enhance QoS for Multimedia Applications Over Satellite. Wireless Personal Communications, 2009, 50, 305-328.	1.8	5
36	AODA: An Autonomic and Ontology-Driven Architecture for Service-Oriented and Event-Driven Systems. , 2012, , .		5

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37	A Smart Diagnostic Model for an Autonomic Service Bus Based on a Probabilistic Reasoning Approach. , 2013, , .		5
38	Dynamic manufacturing network â€“ from flat semantic graphs to composite models. International Journal of Production Research, 2019, 57, 6569-6578.	4.9	5
39	Design Principles of a QoS-Oriented Transport Protocol. Lecture Notes in Computer Science, 2004, , 151-159.	1.0	5
40	IntegraciÃ³n SOA-MAS en Ambientes Inteligentes. DYNA (Colombia), 2018, 85, 268-282.	0.2	5
41	Predicting Location-Dependent QoS for Wireless Networks. Lecture Notes in Computer Science, 2005, , 328-340.	1.0	4
42	A model-based approach for self-adaptive Transport protocols. Computer Communications, 2008, 31, 2699-2705.	3.1	4
43	Semantic and Architectural Framework for Autonomic Transport Services. , 2009, , .		4
44	Survey on Quality of Observation within Sensor Web systems. IET Wireless Sensor Systems, 2017, 7, 163-177.	1.3	4
45	Challenges for the Self-Safety in Autonomous Vehicles. , 2018, , .		4
46	Towards a New Generation of Generic Transport Protocols. Lecture Notes in Computer Science, 2001, , 492-506.	1.0	4
47	Towards user-centric configuration and deployment of multimedia services: A semantic framework. , 2009, , .		3
48	An Ontology-Based Framework for Autonomous QoS Management in Home Networks. , 2010, , .		3
49	Towards autonomic multipath transport for infotainment-like systems. , 2012, , .		3
50	QoSâ€aware and autonomicâ€oriented multiâ€path TCP extensions for mobile and multimedia applications. International Journal of Pervasive Computing and Communications, 2012, 8, 306-328.	1.1	3
51	ATP: A Microprotocol Approach to Autonomic Communication. IEEE Transactions on Computers, 2013, 62, 2131-2140.	2.4	3
52	Towards a semantic-driven and scalable publish/subscribe framework. International Journal of Internet Protocol Technology, 2013, 7, 165.	0.2	3
53	Model Based Enterprise Modeling for Testing PLM Interoperability in Dynamic Manufacturing Network. Lecture Notes in Business Information Processing, 2015, , 141-153.	0.8	3
54	A novel statistical based feature extraction approach for the inner-class feature estimation using linear regression. , 2018, , .		3

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55	An Autonomic Cognitive Pattern for Smart IoT-Based System Manageability. ACM Transactions on Internet Technology, 2019, 19, 1-17.	3.0	3
56	An Active Network Approach to Support Multimedia Relays. Lecture Notes in Computer Science, 2002, , 353-364.	1.0	3
57	UML-SDL modelling of the FPTP QoS oriented transport protocol. , 0, , .		2
58	Architecture and Models for Self-Adaptability of Transport Protocols. , 2007, , .		2
59	A Semantic Approach to User-Based QoS Provision for Multimedia Services in Home Networks. , 2010, , .		2
60	Towards an ontology and DHT-based publish/subscribe scalable system. , 2012, , .		2
61	iQAS: An integration platform for QoI assessment as a service for smart cities. , 2016, , .		2
62	Knowledge as a Service Framework for Collaborative Data Management in Cloud Environments - Disaster Domain. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2016, , 183-209.	0.5	2
63	A perspective of adaptation in healthcare. Studies in Health Technology and Informatics, 2014, 205, 206-10.	0.2	2
64	Multimedia Ontology-Driven Architecture for Multimedia Systems. , 2010, , .		1
65	QoS-Aware and Ontology-Driven Autonomic Service Bus. , 2012, , .		1
66	Towards a semantic and MPTCP-based Autonomic Transport protocol for mobile and multimedia applications. , 2012, , .		1
67	yPBL: An Active, Collaborative and Project-Based Learning Methodology in the Domain of Software Engineering. Journal of Integrated Design and Process Science, 2014, 18, 77-95.	0.2	1
68	Energy saving mechanisms on high communication layers. Journal of High Speed Networks, 2014, 20, 113-129.	0.6	1
69	An autonomic traffic analysis proposal using Machine Learning techniques. , 2017, , .		1
70	Knowledge as a Service Framework for Collaborative Data Management in Cloud Environments - Disaster Domain. , 2016, , 588-614.		1
71	Enhancing TFRC for Video Streaming by Agnostically Using Applicative Cross Layer Semantics and Measure. Lecture Notes in Computer Science, 2009, , 1-13.	1.0	1
72	A Wearable Machine Learning Solution for Internet Traffic Classification in Satellite Communications. Lecture Notes in Computer Science, 2019, , 202-215.	1.0	1

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73	Modeling, simulation, and emulation of QoS oriented transport mechanisms. , 2005, , .		0
74	The QoSxlabel: a quality of service cross-layer label. , 0, , .		0
75	A model-based coordinated adaptability framework for QoS management in cooperative mobile and wireless applications. , 2006, , .		0
76	Towards an unified experimentation framework for protocol engineering. , 2006, , .		0
77	A model based approach to communication protocol's self-adaptation. , 2007, , .		0
78	Towards these of Models for Autonomic Network Management. International Federation for Information Processing, 2008, , 459-470.	0.4	0
79	MOPAS 2010 Preface. , 2010, , .		0
80	Open service-oriented architecture for transport protocols. International Journal of Internet Protocol Technology, 2010, 5, 190.	0.2	0
81	QoS-driven Autonomic Abilities through a Multi-homed Transport Protocol. , 2013, , .		0
82	QoS and scalability management in an autonomic cloud-based networked service bus. , 2013, , .		0
83	Reducing Energy Cost of Keepalive Messages in 3G Mobiles. , 2013, , .		0
84	Distributed chronicles for recognition of failures in web services composition. , 2013, , .		0
85	A Generic Framework for Quality-Based Autonomic Adaptation Within Sensor-Based Systems. Lecture Notes in Computer Science, 2017, , 21-32.	1.0	0
86	Architecture Transformation and Refinement for Model-Driven Adaptability Management: Application to QoS Provisioning in Group Communication. Lecture Notes in Computer Science, 2006, , 220-227.	1.0	0
87	The EuQoS System. , 2008, , 131-177.		0
88	Semantic Network Adaptation Based on QoS Pattern Recognition for Multimedia Streams. Communications in Computer and Information Science, 2009, , 267-274.	0.4	0
89	Knowledge Base for an Autonomic Transport Layer. Lecture Notes in Computer Science, 2011, , 174-185.	1.0	0
90	An Ontology-driven Adaptive System for the Patient Treatment Management. , 2016, , .		0

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91	Semantic-Driven Architecture for Autonomic Management of Cyber-Physical Systems (CPS) for Industry 4.0. Communications in Computer and Information Science, 2019, , 5-17.	0.4	0