

Edmundo Monteiro

List of Publications by Year in descending order

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Version: 2024-02-01

181
papers

2,732
citations

331670

21
h-index

233421

45
g-index

193
all docs

193
docs citations

193
times ranked

2757
citing authors

#	ARTICLE	IF	CITATIONS
1	Security for the Internet of Things: A Survey of Existing Protocols and Open Research Issues. IEEE Communications Surveys and Tutorials, 2015, 17, 1294-1312.	39.4	834
2	Cognitive radio: survey on communication protocols, spectrum decision issues, and future research directions. Wireless Networks, 2012, 18, 147-164.	3.0	137
3	Security in the integration of low-power Wireless Sensor Networks with the Internet: A survey. Ad Hoc Networks, 2015, 24, 264-287.	5.5	79
4	Research challenges in QoS routing. Computer Communications, 2006, 29, 563-581.	5.1	76
5	A resilient Internet of Things architecture for smart cities. Annales Des Telecommunications/Annals of Telecommunications, 2017, 72, 19-30.	2.5	68
6	An Overview of Quality of Experience Measurement Challenges for Video Applications in IP Networks. Lecture Notes in Computer Science, 2010, , 252-263.	1.3	67
7	Quality of resilience as a network reliability characterization tool. IEEE Network, 2009, 23, 11-19.	6.9	66
8	Fog orchestration for the Internet of Everything: state-of-the-art and research challenges. Journal of Internet Services and Applications, 2018, 9, .	2.1	65
9	Service placement for latency reduction in the internet of things. Annales Des Telecommunications/Annals of Telecommunications, 2017, 72, 105-115.	2.5	55
10	Cross-layer routing metrics for mesh networks: Current status and research directions. Computer Communications, 2011, 34, 681-703.	5.1	53
11	Edge caching with mobility prediction in virtualized LTE mobile networks. Future Generation Computer Systems, 2017, 70, 148-162.	7.5	51
12	5G and the Fog " Survey of related technologies and research directions. , 2016, , .		46
13	The EuQoS system: a solution for QoS routing in heterogeneous networks [Quality of Service based Routing Algorithms for Heterogeneous Networks]. , 2007, 45, 96-103.		45
14	Enabling Network-Layer Security on IPv6 Wireless Sensor Networks. , 2010, , .		43
15	Current and Future Trends in Mobile Device Forensics. ACM Computing Surveys, 2019, 51, 1-31.	23.0	40
16	Why is IPSec a viable option for wireless sensor networks. , 2008, , .		39
17	Network-layer security for the Internet of Things using TinyOS and BLIP. International Journal of Communication Systems, 2014, 27, 1938-1963.	2.5	37
18	Routing Metric for Interference and Channel Diversity in Multi-Radio Wireless Mesh Networks. Lecture Notes in Computer Science, 2009, , 55-68.	1.3	36

#	ARTICLE	IF	CITATIONS
19	A comparative analysis of simulators for the Cloud to Fog continuum. Simulation Modelling Practice and Theory, 2020, 101, 102029.	3.8	34
20	Service Orchestration in Fog Environments. , 2017, , .		33
21	A survey on security attacks and countermeasures with primary user detection in cognitive radio networks. Eurasip Journal on Information Security, 2015, 2015, .	2.2	32
22	On the Effectiveness of End-to-End Security for Internet-Integrated Sensing Applications. , 2012, , .		29
23	A Resource Reservation Protocol Supporting QoS-aware Multicast Trees for Next Generation Networks. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	26
24	Virtualizing Programmable Logic Controllers: Toward a Convergent Approach. IEEE Embedded Systems Letters, 2016, 8, 69-72.	1.9	24
25	Intrusion and anomaly detection for the next-generation of industrial automation and control systems. Future Generation Computer Systems, 2021, 119, 50-67.	7.5	24
26	Application-Layer Security for the WoT: Extending CoAP to Support End-to-End Message Security for Internet-Integrated Sensing Applications. Lecture Notes in Computer Science, 2013, , 140-153.	1.3	24
27	Scalable Resource Provisioning for Multi-User Communications in Next Generation Networks. , 2008, , .		21
28	EuQoS: End-to-End Quality of Service over Heterogeneous Networks. Computer Communications, 2009, 32, 1355-1370.	5.1	21
29	A Comprehensive Security Analysis of a SCADA Protocol: From OSINT to Mitigation. IEEE Access, 2019, 7, 42156-42168.	4.2	21
30	A secure interconnection model for IPv6 enabled wireless sensor networks. , 2010, , .		20
31	A Two-Tier Adaptive Data Aggregation Approach for M2M Group-Communication. IEEE Sensors Journal, 2016, 16, 823-835.	4.7	20
32	Neutral Operation of the Minimum Energy Node in energy-harvesting environments. , 2017, , .		18
33	Specialized Honeypots for SCADA Systems. Intelligent Systems, Control and Automation: Science and Engineering, 2015, , 251-269.	0.5	17
34	A Rank Scheduling Mechanism for Fog Environments. , 2018, , .		14
35	MMC04-3: A Unifying Architecture for Publish-Subscribe Services in the Next Generation IP Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	13
36	Mobile Forensic Data Analysis: Suspicious Pattern Detection in Mobile Evidence. IEEE Access, 2018, 6, 59705-59727.	4.2	13

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37	A comment on simulating LRD traffic with pareto ON/OFF sources. , 2005, , .		12
38	WiMAX for Emergency Services: An Empirical Evaluation. , 2007, , .		12
39	Attacking SCADA systems: A practical perspective. , 2017, , .		12
40	CWMP extensions for enhanced management of domestic network services. , 2010, , .		11
41	Enhanced caching strategies at the edge of LTE mobile networks. , 2016, , .		11
42	An Approach to Support Traffic Classes in IP Networks. Lecture Notes in Computer Science, 2000, , 285-299.	1.3	11
43	Multi-user session control in the next generation wireless system. , 2006, , .		10
44	Tutamen: An Integrated Personal Mobile and Adaptable Video Platform for Health and Protection. IFIP Advances in Information and Communication Technology, 2013, , 442-451.	0.7	10
45	<title>Quality of service routing in the differentiated services framework</title>. , 2001, , .		9
46	Integration of PXE-based desktop solutions into broadband access networks. , 2010, , .		9
47	A Multi-Scale Tomographic Algorithm for Detecting and Classifying Traffic Anomalies. , 2007, , .		8
48	QoS Mapping and Adaptation in Next Generation Networks. , 2007, , .		8
49	Mobility management for multi-user sessions in next generation wireless systems. Computer Communications, 2008, 31, 915-934.	5.1	8
50	The impact of interference-aware routing metrics on video streaming in Wireless Mesh Networks. Ad Hoc Networks, 2011, 9, 652-661.	5.5	8
51	On the feasibility of secure application-layer communications on the Web of Things. , 2012, , .		8
52	A framework for Wireless Sensor Networks performance monitoring. , 2012, , .		8
53	LiveCity: A Secure Live Video-to-Video Interactive City Infrastructure. International Federation for Information Processing, 2012, , 260-267.	0.4	8
54	Development of an Integrated Solution for Intrusion Detection: A Model Based on Data Correlation. , 2006, , .		7

#	ARTICLE	IF	CITATIONS
55	QoS Support for Multi-user Sessions in IP-based Next Generation Networks. Mobile Networks and Applications, 2008, 13, 366.	3.3	7
56	Efficient and secure M2M communications for smart metering. , 2014, , .		7
57	Virtualization of Residential Gateways: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 1462-1482.	39.4	7
58	Q3M " QoS Architecture for Multi-user Mobile Multimedia Sessions in 4G systems. Lecture Notes in Computer Science, 2007, , 38-49.	1.3	7
59	Scalable Multimedia Group Communications through the Over-Provisioning of Network Resources. Lecture Notes in Computer Science, 2008, , 52-63.	1.3	7
60	Multi-Class Measurement Based Admission Control for a QoS Framework with Dynamic Resource Management. Journal of Network and Systems Management, 2007, 15, 219-240.	4.9	6
61	Interdomain quality of service routing: setting the grounds for the way ahead. Annales Des Telecommunications/Annals of Telecommunications, 2008, 63, 683-695.	2.5	6
62	QoE-based packet dropper controllers for multimedia streaming in WiMAX networks. , 2011, , .		6
63	End-to-end transparent transport-layer security for Internet-integrated mobile sensing devices. , 2016, , .		6
64	Privacy in the Cloud: A Survey of Existing Solutions and Research Challenges. IEEE Access, 2021, 9, 10473-10497.	4.2	6
65	A Proposal for Inter-domain QoS Routing Based on Distributed Overlay Entities and QBCP. Lecture Notes in Computer Science, 2004, , 257-267.	1.3	6
66	QoS Mapping and Adaptation Control for Multi-user Sessions over Heterogeneous Wireless Networks. , 2007, , .		6
67	Session-aware popularity-based resource allocation for assured differentiated services. , 2002, 40, 104-111.		5
68	MNet - a new multicast approach for the future Internet. , 0, , .		5
69	A Framework for the establishment of inter-domain, on-demand VPNs. , 2008, , .		5
70	Speech Quality Aware Admission Control for Fixed IEEE 802.16 Wireless MAN. , 2008, , .		5
71	Trust and reputation management for critical infrastructure protection. International Journal of Electronic Security and Digital Forensics, 2010, 3, 187.	0.2	5
72	Trust based interdependency weighting for on-line risk monitoring in interdependent critical infrastructures. , 2011, , .		5

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73	Cooperative Sensing-Before-Transmit in Ad-Hoc Multi-hop Cognitive Radio Scenarios. Lecture Notes in Computer Science, 2012, , 186-197.	1.3	5
74	Data Aggregation for group communication in Machine-to-Machine environments. , 2014, , .		5
75	Cooperative security management for broadband network environments. Security and Communication Networks, 2015, 8, 3953-3977.	1.5	5
76	Optimal Mapper for OFDM With Index Modulation: A Spectro-Computational Analysis. IEEE Access, 2020, 8, 68365-68378.	4.2	5
77	Stability and Scalability Issues in Hop-by-Hop Class-Based Routing. Lecture Notes in Computer Science, 2003, , 103-116.	1.3	5
78	QoE Assessment of VoIP in Next Generation Networks. Lecture Notes in Computer Science, 2009, , 94-105.	1.3	5
79	<title>QoS metric for packet networks</title>. , 1998, 3529, 70.		4
80	<title>QoStat: a tool for the evaluation of QoS capable routers</title>. , 2001, 4211, 216.		4
81	Mobility Support of Multi-User Services in Next Generation Wireless Systems. Performance, Computing and Communications Conference (IPCCC), IEEE International, 2007, , .	0.0	4
82	Improving the Performance of Route Control Middleboxes in a Competitive Environment. IEEE Network, 2008, 22, 56-64.	6.9	4
83	QoS adaptation in inter-domain services. , 2011, , .		4
84	RAILoB - a Routing Algorithm for Inter-cluster Load Balancing in Wireless Mesh Networks. , 2012, , .		4
85	Group Communication in Machine-to-Machine Environments. Lecture Notes in Computer Science, 2014, , 219-238.	1.3	4
86	What is the Cost of the Index Selector Task for OFDM with Index Modulation?. , 2019, , .		4
87	Service Placement for Latency Reduction in the Fog Using Application Profiles. IEEE Access, 2021, 9, 80821-80834.	4.2	4
88	Open Box Protocol (OBP). Lecture Notes in Computer Science, 2007, , 496-507.	1.3	4
89	Group Communication in Machine-to-Machine Environments. Lecture Notes in Computer Science, 2014, , 219-238.	1.3	4
90	A two-phase algorithm for off-line inter-domain traffic optimization. , 2005, , .		3

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91	On Evaluating a WiMAX Access Network for Isolated Research and Data Networks Using NS-2. Lecture Notes in Computer Science, 2007, , 133-147.	1.3	3
92	Quality Level Control for Multi-User Sessions in Future Generation Networks. , 2008, , .		3
93	A Cross-Layer Routing Scheme for Scalable Triple Play Service in Wireless Mesh Networks. , 2010, , .		3
94	A Taxonomy of Wireless Sensor Networks with QoS. , 2011, , .		3
95	Enhanced protection of hidden primary users through filtering based on suspect channels classification. , 2012, , .		3
96	On the use of thin-client Set-Top Boxes for IPTV services. , 2013, , .		3
97	Data aggregation for machine-to-machine communication with energy harvesting. , 2015, , .		3
98	Provisioning of Inter-Domain QoS-Aware Services. Journal of Computer Science and Technology, 2015, 30, 404-420.	1.5	3
99	Maximal Spectral Efficiency of OFDM With Index Modulation Under Polynomial Space Complexity. IEEE Wireless Communications Letters, 2020, 9, 679-682.	5.0	3
100	Signaling Protocol for Session-Aware Popularity-Based Resource Allocation. Lecture Notes in Computer Science, 2002, , 101-113.	1.3	3
101	Non-parametric and Self-tuning Measurement-Based Admission Control. Lecture Notes in Computer Science, 2007, , 664-677.	1.3	3
102	Security Issues and Approaches on Wireless M2M Systems. Signals and Communication Technology, 2013, , 133-164.	0.5	3
103	Optimizing the Delivery of Services Supported by Residential Gateways. Advances in Web Technologies and Engineering Book Series, 2015, , 432-473.	0.4	3
104	Session-Aware Popularity Resource Allocation for Assured Differentiated Services. Lecture Notes in Computer Science, 2002, , 74-85.	1.3	3
105	A fairness analysis of LAN/WAN protocol relays. Computer Networks, 1993, 26, 379-388.	1.0	2
106	LAN/WAN interconnection : congestion control in X.25 protocol relays. Annales Des Telecommunications/Annals of Telecommunications, 1994, 49, 90-102.	2.5	2
107	<title>Approach to the dynamic forwarding of packets in a differentiated service-based router</title>. , 1999, , .		2
108	The role of packet-dropping mechanisms in QoS differentiation. , 0, , .		2

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109	How to increase the efficiency of receiver-driven adaptive mechanisms in a new generation of IP networks. Computer Communications, 2004, 27, 345-354.	5.1	2
110	Bandwidth Management in IntServ to DiffServ Mapping. Lecture Notes in Computer Science, 2005, , 433-444.	1.3	2
111	Admission Control in IntServ to DiffServ mapping. , 2006, , .		2
112	Contribution of Anomalies Detection and Analysis on Traffic Engineering. , 2006, , .		2
113	On the Advantages of Cooperative and Social Smart Route Control. Computer Communications and Networks (IC3N), Proceedings of the IEEE International Conference on, 2006, , .	0.0	2
114	Evaluation of an Overlay for Source-Specific Multicast in Asymmetric Routing Environments. , 2007, , .		2
115	Analysis of Interdomain Smart Routing and Traffic Engineering Interactions. , 2007, , .		2
116	Seamless Mobility of Users with QoS and Connectivity Support. , 2007, , .		2
117	EuQoS approach for resource allocation in Ethernet networks. International Journal of Network Management, 2007, 17, 373-388.	2.2	2
118	Packet Scheduling and Congestion Control. Lecture Notes in Electrical Engineering, 2009, , 13-87.	0.4	2
119	A service composition approach for inter-domain provisioning. , 2010, , .		2
120	A Framework for Internet Media Services Delivery to the Home Environment. Journal of Network and Systems Management, 2013, 21, 99-127.	4.9	2
121	Trust Based Interdependency Weighting for On-Line Risk Monitoring in Interdependent Critical Infrastructures. International Journal of Secure Software Engineering, 2013, 4, 47-69.	0.4	2
122	A Comparison of Classification Techniques for Detection of VoIP Traffic. , 2014, , .		2
123	CORHYS: Hybrid signaling for opportunistic distributed cognitive radio. Computer Networks, 2015, 81, 19-42.	5.1	2
124	A mobile follow-me cloud content caching model. , 2016, , .		2
125	Describing the Internet of Things with an ontology: The SusCity project case study. , 2017, , .		2
126	Fuzzy System-Based Suspicious Pattern Detection in Mobile Forensic Evidence. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 106-114.	0.3	2

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127	Resilient Service Chains through Smart Replication. IEEE Access, 2020, 8, 187021-187036.	4.2	2
128	Risk Management and Privacy Violation Detection in the PoSeID-on Data Privacy Platform. SN Computer Science, 2020, 1, 1.	3.6	2
129	Communication and Security in Machine-to-Machine Systems. Lecture Notes in Computer Science, 2014, , 255-281.	1.3	2
130	Dynamic Mapping between the Controlled-Load IntServ Service and the Assured Forward DiffServ PHB. Lecture Notes in Computer Science, 2003, , 1-10.	1.3	2
131	An Approach to Off-Line Inter-domain QoS-Aware Resource Optimization. Lecture Notes in Computer Science, 2006, , 247-255.	1.3	2
132	Authentication, Authorization, Admission, and Accounting for QoS Applications. Lecture Notes in Computer Science, 2004, , 440-449.	1.3	1
133	Selective Mobility Support of Multi-User Services in Wireless Environments. , 2007, , .		1
134	On Autonomic QoS Provisioning for Voice over IP Services. , 2007, , .		1
135	Multi-Perspective Optimization of GEANTInter-domain Traffic. , 2007, , .		1
136	WiRA: An Approach to Resource Control in WiMAX Systems. , 2008, , .		1
137	HyPath: An Approach for Hybrid On-Path Off-Path End-to-End Signaling. , 2008, , .		1
138	What If the End Systems Knew the Bandwidth Available in the Network?. , 2008, , .		1
139	Speech Quality Aware Resource Control for Fixed and Mobile WiMAX. , 0, , 227-250.		1
140	Stability and performance analysis of the Open Box Transport Protocol. , 2009, , .		1
141	Performance assessment of cluster load balancing routing methods for triple play services in Wireless Mesh Networks. , 2012, , .		1
142	Using UPnP-CWMP integration for operator-assisted management of domestic LANs. , 2012, , .		1
143	Outrageous opinion panel. , 2013, , .		1
144	Controlling Data Aggregation and communication periodicity in Energy Harvesting networks. , 2015, , .		1

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145	A data fusion protocol for WSN performance and data retrieval. , 2016, , .		1
146	Adaptable End-To-End Security For Mobile IoT Sensing Applications. , 2017, , .		1
147	Energy-efficient multigroup communication. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3232.	3.9	1
148	Revisiting the Concept of Virtualized Residential Gateways. Advances in Web Technologies and Engineering Book Series, 2021, , 272-304.	0.4	1
149	A Queue Management System for Differentiated-Services IP Routers. Lecture Notes in Computer Science, 2000, , 14-27.	1.3	1
150	An Integrated Approach to Control the Quality Level of Multi-user Sessions. , 2008, , .		1
151	A Receiver-Driven Adaptive Mechanism Based on the Popularity of Scalable Sessions. Lecture Notes in Computer Science, 2002, , 15-24.	1.3	1
152	Jungle Issues in Class-Based Routing. Lecture Notes in Computer Science, 2003, , 294-305.	1.3	1
153	A policy-based approach to firewall management. IFIP Advances in Information and Communication Technology, 2003, , 115-126.	0.7	1
154	NSIS-Based Quality of Service and Resource Allocation in Ethernet Networks. Lecture Notes in Computer Science, 2006, , 132-142.	1.3	1
155	Stabilizing Intelligent Route Control: Randomized Path Monitoring, Randomized Path Switching or History-Aware Path Switching?. Lecture Notes in Computer Science, 2008, , 151-156.	1.3	1
156	Trust and Reputation Management for Critical Infrastructure Protection. Communications in Computer and Information Science, 2010, , 39-47.	0.5	1
157	Assurance and Trust Indicators to Evaluate Accuracy of On-line Risk in Critical Infrastructures. Lecture Notes in Computer Science, 2013, , 30-41.	1.3	1
158	Communication and Security in Machine-to-Machine Systems. Lecture Notes in Computer Science, 2014, , 255-281.	1.3	1
159	Towards Protecting Critical Infrastructures. Advances in Digital Crime, Forensics, and Cyber Terrorism, 2015, , 121-165.	0.4	1
160	From Fuzziness to Criminal Investigation: An Inference System for Mobile Forensics. , 2017, , 117-132.		1
161	The use of COPS and NSIS in the EuQoS Project. , 2005, , 159-171.		1
162	Specification of order and reliability in SMIL documents. , 0, , .		0

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163	Evaluating PNNI performance. , 0, , .		0
164	Traffic Management. Lecture Notes in Computer Science, 2003, , 10-79.	1.3	0
165	Evaluation of Integrated Services Support on Linux. Lecture Notes in Computer Science, 2003, , 21-30.	1.3	0
166	Policy-based networking: applications to firewall management. Annales Des Telecommunications/Annals of Telecommunications, 2004, 59, 38-54.	2.5	0
167	On the use of traffic monitoring and measurements for improving networking. , 2005, , .		0
168	Policy Based Architecture for Class Based QoS Suppo. , 2006, , .		0
169	Experimental Evaluation of the Source Specific Multicast Model in Mobile Environments. , 0, , .		0
170	Track on Computer Networks. , 2008, , .		0
171	How to provision and manage off-the-shelf SIP phones in domestic and SOHO environments. , 2011, , .		0
172	Quality of Experience Adaptation Controllers for Voice and Video in Wireless Networks. Lecture Notes in Computer Science, 2011, , 350-361.	1.3	0
173	A prediction criterion for selecting popular destinations. , 2011, , .		0
174	Message from CFIC coimbra 2013 chairs. , 2013, , .		0
175	Welcome from the Chairs. , 2017, , .		0
176	Towards High Energy Efficiency in the Internet of Things. , 2019, , .		0
177	The EuQoS System. , 2008, , 131-177.		0
178	An IPSec Mediation Approach for Safe Establishment of Inter-domain VPNs. Lecture Notes in Computer Science, 2009, , 155-160.	1.3	0
179	Next-Generation Communication Systems for PPDR: the SALUS Perspective. , 2015, , 49-93.		0
180	Role Coordination in Large-Scale and Highly-Dense Internet-of-Things. Modeling and Optimization in Science and Technologies, 2016, , 77-98.	0.7	0

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181	Signalling. , 2008, , 75-109.		0