

Mauro Femminella

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

1,353
citations

567144

15
h-index

414303

32
g-index

112
all docs

112
docs citations

112
times ranked

953
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications of molecular communications to medicine: A survey. Nano Communication Networks, 2016, 7, 27-45.	1.6	128
2	A simulation tool for nanoscale biological networks. Nano Communication Networks, 2012, 3, 2-18.	1.6	109
3	Simulation of molecular signaling in blood vessels: Software design and application to atherogenesis. Nano Communication Networks, 2013, 4, 98-119.	1.6	104
4	A Molecular Communications Model for Drug Delivery. IEEE Transactions on Nanobioscience, 2015, 14, 935-945.	2.2	92
5	TCP-Like Molecular Communications. IEEE Journal on Selected Areas in Communications, 2014, 32, 2354-2367.	9.7	90
6	Simulating an in vitro experiment on nanoscale communications by using BiNS2. Nano Communication Networks, 2013, 4, 172-180.	1.6	80
7	DIRECT: A model for molecular communication nanonetworks based on discrete entities. Nano Communication Networks, 2013, 4, 181-188.	1.6	66
8	Modeling CD40-Based Molecular Communications in Blood Vessels. IEEE Transactions on Nanobioscience, 2014, 13, 230-243.	2.2	48
9	Comparison of MongoDB and Cassandra Databases for Spectrum Monitoring As-a-Service. IEEE Transactions on Network and Service Management, 2020, 17, 346-360.	3.2	29
10	Experimental Analysis of the Application of Serverless Computing to IoT Platforms. Sensors, 2021, 21, 928.	2.1	26
11	A Molecular Communication System in Blood Vessels for Tumor Detection. , 2014, , .		24
12	An enabling platform for autonomic management of the future internet. IEEE Network, 2011, 25, 24-32.	4.9	23
13	Establishing digital molecular communications in blood vessels. , 2013, , .		21
14	Protection Ratio and Antenna Separation for DVB-T/LTE Coexistence Issues. IEEE Communications Letters, 2013, 17, 1588-1591.	2.5	20
15	Congestion Control in Molecular Cyber-Physical Systems. IEEE Access, 2017, 5, 10000-10011.	2.6	20
16	Per-flow QoS support over a stateless Differentiated Services IP domain. Computer Networks, 2002, 40, 73-87.	3.2	19
17	Autonomic control and personalization of a wireless access network. Computer Networks, 2007, 51, 2645-2676.	3.2	17
18	Directional Receivers for Diffusion-Based Molecular Communications. IEEE Access, 2019, 7, 5769-5783.	2.6	16

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19	A Molecular Communications System for Live Detection of Hyperviscosity Syndrome. IEEE Transactions on Nanobioscience, 2020, 19, 410-421.	2.2	16
20	Performance Evaluation of Edge Cloud Computing System for Big Data Applications. , 2016, , .		15
21	Extending the NetServ autonomic management capabilities using OpenFlow. , 2012, , .		14
22	Gossip-based signaling dissemination extension for next steps in signaling. , 2012, , .		14
23	Performance evaluation of a measurement-based algorithm for distributed admission control in a DiffServ framework. , 0, , .		13
24	Network service provisioning in UWB open mobile access networks. IEEE Journal on Selected Areas in Communications, 2002, 20, 1745-1753.	9.7	12
25	A Zero-Configuration Tracking System for First Responders Networks. IEEE Systems Journal, 2017, 11, 2917-2928.	2.9	12
26	A Layer 3 Movement Detection Algorithm Driving Handovers in Mobile IP. Wireless Networks, 2005, 11, 223-233.	2.0	10
27	Design, Implementation, and Performance Evaluation of an Advanced SIP-Based Call Control for VoIP Services. , 2009, , .		10
28	Smart antennas for diffusion-based molecular communications. , 2015, , .		10
29	Automatic deployment, execution and analysis of 5G experiments using the 5G EVE platform. , 2020, , .		10
30	Skin Cancer Classification Using Inception Network and Transfer Learning. Lecture Notes in Computer Science, 2020, , 536-545.	1.0	10
31	A QoS Index for IP Services to Effectively Support Usage-Based Charging. IEEE Communications Letters, 2004, 8, 686-688.	2.5	9
32	Workflow Engine Integration in JSLEE AS. IEEE Communications Letters, 2011, 15, 1405-1407.	2.5	9
33	IoT, big data, and cloud computing value chain: pricing issues and solutions. Annales Des Telecommunications/Annals of Telecommunications, 2018, 73, 511-520.	1.6	9
34	The RAMON Module: Architecture Framework and Performance Results. Lecture Notes in Computer Science, 2003, , 471-484.	1.0	9
35	Stateless admission control for QoS provisioning for VoIP in a diffServ domain. Teletraffic Science and Engineering, 2003, , 1321-1330.	0.4	8
36	A simple and scalable receiver model in molecular communication systems. , 2016, , .		8

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37	A signaling protocol for service function localization. IEEE Communications Letters, 2016, , 1-1.	2.5	8
38	Genomics as a service: A joint computing and networking perspective. Computer Networks, 2018, 145, 27-51.	3.2	8
39	Simplification of the design, deployment, and testing of 5G vertical services. , 2020, , .		8
40	Joint support of QoS and mobility in a stateless IP environment. , 0, , .		7
41	Performance management of Java-based SIP application servers. , 2011, , .		7
42	SigMA: Signaling Framework for Decentralized Network Management Applications. IEEE Transactions on Network and Service Management, 2017, 14, 616-630.	3.2	7
43	A Big Data architecture for spectrum monitoring in cognitive radio applications. Annales Des Telecommunications/Annals of Telecommunications, 2018, 73, 451-461.	1.6	7
44	Parallel algorithms for simulating interacting carriers in nanocommunication. Nano Communication Networks, 2019, 20, 20-30.	1.6	7
45	Implementation issues of diffusion-based molecular communications receivers based on transcriptional elements. , 2022, 124, 103160.		7
46	A Molecular Communications System for the Detection of Inflammatory Levels Related to COVID-19 Disease. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2021, 7, 165-174.	1.4	7
47	Integrating UWB radio access procedures with a stateless IP QoS paradigm. , 2003, , .		6
48	Toward an autonomic control of wireless access networks. , 2005, , .		6
49	Performance evaluation of the push-mode-multicast based candidate access router discovery (PMM) Tj ETQq1 1 0.784314 rgBT /Over 3.2		6
50	An Experimental System for Continuous Users Tracking in Emergency Scenarios. , 2011, , .		6
51	Advanced caching for distributing sensor data through programmable nodes. , 2013, , .		6
52	Stateful vs. stateless admission control: which can be the gap in utilization efficiency?. , 0, , .		5
53	A Comparison of the Utilization Efficiency between a Stateful and a Stateless Admission Control in IP Networks in a Heterogeneous Traffic Case. Telecommunication Systems, 2004, 25, 231-258.	1.6	5
54	Optimal deployment of open source application servers providing multimedia services. IEEE Network, 2014, 28, 54-63.	4.9	5

#	ARTICLE	IF	CITATIONS
55	The ARES Project: Network Architecture for Delivering and Processing Genomics Data. , 2014, , .		5
56	Extensible signaling framework for decentralized network management applications. , 2016, , .		5
57	Monitoring Platform Evolution Toward Serverless Computing for 5G and Beyond Systems. IEEE Transactions on Network and Service Management, 2022, 19, 1489-1504.	3.2	5
58	Measuring the edge-to-edge available bandwidth in a DiffServ domain. International Journal of Network Management, 2008, 18, 409-426.	1.4	4
59	QoS-enabled multicast for delivering live events in a Digital Cinema scenario. Journal of Network and Computer Applications, 2009, 32, 314-344.	5.8	4
60	Networking issues related to delivering and processing genomic big data. International Journal of Parallel, Emergent and Distributed Systems, 2015, 30, 46-64.	0.7	4
61	IoT, cloud services, and big data: A comprehensive pricing solution. , 2016, , .		4
62	MolComML. , 2016, , .		4
63	The Molecular Communications Markup Language (MolComML). Nano Communication Networks, 2018, 16, 12-25.	1.6	4
64	Gossip-based monitoring of virtualized resources in 5G networks. , 2019, , .		4
65	Reinforcement Learning Applicability for Resource-Based Auto-scaling in Serverless Edge Applications. , 2022, , .		4
66	Target access router selection in advanced mobility scenarios. Computer Communications, 2006, 29, 337-357.	3.1	3
67	Network Distribution of Digital Cinema Contents. , 2007, , .		3
68	Low Satellite Visibility Areas: Extension of the GPS Capabilities to Deploy Location-Based Services. IEEE Vehicular Technology Magazine, 2012, 7, 55-65.	2.8	3
69	Enhancing java call control with media server control functions. , 2013, 51, 132-142.		3
70	Teaching Domain-Driven Data Science: Public-Private Co-creation of Market-Driven Certificate. , 2015, , .		3
71	A cloud computing architecture for spectrum sensing as a service. , 2016, , .		3
72	Genome centric networking: A network function virtualization solution for genomic applications. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
73	5G experiment design through Blueprint. Computer Networks, 2021, 190, 107948.	3.2	3
74	Resources discovery and selection in wireless networks. , 2004, , .		2
75	On the modeling of voice sources regulated by dual leaky buckets. , 0, , .		2
76	Beacon-Based Service Publishing Framework in Multiservice Wi-Fi Hotspots. Eurasip Journal on Wireless Communications and Networking, 2007, 2007, 1.	1.5	2
77	On the Performance of Service Publishing in IEEE 802.11 Multi-Access Environment. IEEE Communications Letters, 2007, 11, 322-324.	2.5	2
78	Implementation and performance analysis of advanced IT services based on open source JAIN SLEE. , 2011, , .		2
79	An Extended Java Call Control for the Session Initiation Protocol. IEEE MultiMedia, 2012, 19, 60-71.	1.5	2
80	The ARES Project: Cloud Services for Medical Genomics. , 2014, , .		2
81	Probabilistic Codebook-Based Fault Localization in Data Networks. IEEE Transactions on Network and Service Management, 2018, 15, 567-581.	3.2	2
82	Orchestration of Cloud Genomic Services. , 2019, , .		2
83	Two-Layer Network Caching for Different Service Requirements. Future Internet, 2021, 13, 85.	2.4	2
84	Fast simulation of interacting carriers in nanosimulators. , 2018, , .		2
85	WiFi Assisted GPS for Extended Location Services. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 191-202.	0.2	2
86	Theoretical analysis of a virtual delay based tariff model. , 0, , .		1
87	Performance evaluation of a multicast-based solution for wireless resources discovery. , 0, , .		1
88	Efficient and stateless deployment of VoIP services. Computer Networks, 2009, 53, 706-726.	3.2	1
89	A signaling architecture for multimedia MBS over WiMAX. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	1.5	1
90	A big-data layered architecture for analyzing molecular communications systems in blood vessels. , 2017, , .		1

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91	Mobility Management in a Reconfigurable Environment: The RAMON Approach. Lecture Notes in Computer Science, 2003, , 499-512.	1.0	1
92	Modeling the Spontaneous Reaction of Mammalian Cells to External Stimuli. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 226-241.	0.2	1
93	Endovascular Mobile Sensor Network for Detecting Circulating Tumoral Cells. , 2014, , .		1
94	Effect of Aging, Disease Versus Health Conditions in the Design of Nano-communications in Blood Vessels. Modeling and Optimization in Science and Technologies, 2017, , 447-471.	0.7	1
95	Modeling Approaches for Simulating Molecular Communications. , 2020, , 903-910.		1
96	A tariff model to charge IP services with guaranteed quality: effect of users' demand in a case study. , 0, , .		0
97	A Novel Approach to Charge for IP Services with QoS Support. Journal of Network and Systems Management, 2006, 14, 279-312.	3.3	0
98	Definition and performance evaluation of a request routing algorithm to distribute digital cinema contents. , 2008, , .		0
99	Design and implementation of an advanced service architecture for MBS over WiMAX. , 2010, , .		0
100	Introduction of Media Gateway Control functions in Java Call Control. , 2012, , .		0
101	A Markovian model for assessing the consistency of vehicular storage systems. , 2013, , .		0
102	Dimensioning of dual leaky bucket parameters for regulating voice sources. Electronics Letters, 2013, 49, 756-758.	0.5	0
103	Consistency analysis of sensor data distribution. , 2013, , .		0
104	A resource discovery framework for cloud-based genomics computing. , 2014, , .		0
105	A molecular communication system in blood vessels for the detection of hyperviscosity syndrome. , 2019, , .		0
106	Guest Editorial Special Section on Molecular Communications for Interfacing and Modeling Living Systems. IEEE Transactions on Nanobioscience, 2019, 18, 28-30.	2.2	0
107	Access Router Discovery and Selection in Advanced Wireless Networks. Lecture Notes in Computer Science, 2004, , 383-388.	1.0	0
108	Modeling Approaches for Simulating Molecular Communications. , 2018, , 1-8.		0

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109	A Nano Communication System for CTC Detection in Blood Vessels. Lecture Notes in Computer Science, 2019, , 159-170.	1.0	0
110	A Simple Queuing Model for Molecular Communications Receivers. Sensors, 2021, 21, 7664.	2.1	0