Gianluca Aloi

List of Publications by Year
in descending order

66 papers	3,362 citations	430754 18 h-index	345118 36 g-index
66 all docs	66 docs citations	66 times ranked	4477 citing authors

#	Article	IF	Citations
1	Spontaneous smartphone networks as a user-centric solution for the future internet. IEEE Communications Magazine, 2014, 52, 26-33.	4.9	1,214
2	Evaluating Critical Security Issues of the IoT World: Present and Future Challenges. IEEE Internet of Things Journal, 2018, 5, 2483-2495.	5.5	492
3	An Edge-Based Architecture to Support Efficient Applications for Healthcare Industry 4.0. IEEE Transactions on Industrial Informatics, 2019, 15, 481-489.	7.2	279
4	Enabling IoT interoperability through opportunistic smartphone-based mobile gateways. Journal of Network and Computer Applications, 2017, 81, 74-84.	5.8	241
5	Environment-fusion multipath routing protocol for wireless sensor networks. Information Fusion, 2020, 53, 4-19.	11.7	153
6	Topology optimization against cascading failures on wireless sensor networks using a memetic algorithm. Computer Networks, 2020, 177, 107327.	3.2	132
7	Cloud-based Activity-aaService cyber–physical framework for human activity monitoring in mobility. Future Generation Computer Systems, 2017, 75, 158-171.	4.9	99
8	A Smartphone-Enabled Fall Detection Framework for Elderly People in Connected Home Healthcare. IEEE Network, 2019, 33, 58-63.	4.9	97
9	Lightweight Reinforcement Learning for Energy Efficient Communications in Wireless Sensor Networks. IEEE Access, 2019, 7, 29355-29364.	2.6	84
10	A Mobile Multi-Technology Gateway to Enable IoT Interoperability. , 2016, , .		56
11	Disaster monitoring and mitigation using aerospace technologies and integrated telecommunication networks. IEEE Aerospace and Electronic Systems Magazine, 2008, 23, 3-9.	2.3	40
12	AI-enabled mobile multimedia service instance placement scheme in mobile edge computing. Computer Networks, 2020, 182, 107573.	3.2	34
13	Simulation-Driven Platform for Edge-Based AAL Systems. IEEE Journal on Selected Areas in Communications, 2021, 39, 446-462.	9.7	30
14	Securing the IoT world: Issues and perspectives. , 2017, , .		28
15	POTENTIALITIES OF USRP-BASED SOFTWARE DEFINED RADAR SYSTEMS. Progress in Electromagnetics Research B, 2013, 53, 417-435.	0.7	27
16	STEM–Net: an evolutionary network architecture for smart and sustainable cities. Transactions on Emerging Telecommunications Technologies, 2014, 25, 21-40.	2.6	26
17	A Mission-Oriented Coordination Framework for Teams of Mobile Aerial and Terrestrial Smart Objects. Mobile Networks and Applications, 2016, 21, 708-725.	2.2	26
18	A multi-technology location-aware wireless system for interactive fruition of multimedia contents. IEEE Transactions on Consumer Electronics, 2009, 55, 342-350.	3.0	22

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19	Energy-efficient scheduling of small cells in 5G: A meta-heuristic approach. Journal of Network and Computer Applications, 2021, 178, 102986.	5.8	21
20	STEM-NET: How to deploy a self-organizing network of mobile end-user devices for emergency communication. Computer Communications, 2015, 60, 12-27.	3.1	20
21	A collaborative task-oriented scheduling driven routing approach for industrial IoT based on mobile devices. Ad Hoc Networks, 2018, 81, 86-99.	3.4	17
22	Cascade Failures Analysis of Internet of Things Under Global/Local Routing Mode. IEEE Sensors Journal, 2022, 22, 1705-1719.	2.4	17
23	Software defined radar. , 2011, , .		14
24	Toward robust and energy-efficient clustering wireless sensor networks: A double-stage scale-free topology evolution model. Computer Networks, 2021, 200, 108521.	3.2	14
25	Effective Admission Policy for Multimedia Traffic Connections over Satellite DVB-RCS Network. ETRI Journal, 2006, 28, 593-606.	1.2	13
26	A Trusted Consensus Scheme for Collaborative Learning in the Edge AI Computing Domain. IEEE Network, 2021, 35, 204-210.	4.9	13
27	The practical experience of implementing a GSM BTS through open software/hardware. , 2010, , .		11
28	IoT platforms interoperability for active and assisted living healthcare services support. , 2017, , .		11
29	Transmission hold-off time mitigation for IEEE 802.16 mesh networks: a dynamic approach. Wireless Telecommunications Symposium, 2009 WTS 2009, 2008, , .	0.0	9
30	Particle swarm optimization schemes based on consensus for wireless sensor networks. , 2012, , .		9
31	Smartphones like stem cells: Cooperation and evolution for emergency communication in post-disaster scenarios. , 2013, , .		9
32	Effective Routing Algorithm for Multilayered Terrestrial-HAP-Satellite Networks. IEEE Communications Letters, 2007, 11, 510-512.	2.5	8
33	The SENSE-ME platform: Infrastructure-less smartphone connectivity and decentralized sensing for emergency management. Pervasive and Mobile Computing, 2017, 42, 187-208.	2.1	8
34	Efficient Acoustic Communication Techniques for Nanobots. , 2012, , .		7
35	Exploiting Recurrent Paths of Vehicular Users in a Third Generation Cellular System Urban Scenario. , 2006, , .		6
36	WEVCast: wireless eavesdropping video casting architecture to overcome standard multicast transmission in Wi-Fi networks. Telecommunication Systems, 2013, 52, 2287-2297.	1.6	6

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37	Edge Computing-Enabled Body Area Networks. , 2018, , .		6
38	A smartphone-centric approach for integrating heterogeneous sensor networks. , 2014, , .		6
39	A wise cost-effective supplying bandwidth policy for multilayer wireless cognitive networks. Computers and Operations Research, 2012, 39, 2836-2847.	2.4	5
40	Management and Coordination Framework for Aerial-Terrestrial Smart Drone Networks. , 2015, , .		5
41	An application-level framework for UAV/rover communication and coordination. , 2015, , .		4
42	Towards Interoperability of IoT-based Health Care platforms: the INTER-Health use case. , 2017, , .		4
43	A Novel Communication Technique for Nanobots Based on Acoustic Signals. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 91-104.	0.2	4
44	Multilayered Architecture Supporting Efficient Inter HAP-Satellite Routing. IEEE Vehicular Technology Conference, 2007, , .	0.2	3
45	Effective prediction scheme for bandwidth allocation in interactive satellite terminals. , 2008, , .		3
46	Attractive pricing mechanism for connection sharing and coverage extension of wireless networks. , 2009, , .		3
47	Satellite-HAP Network Supporting Multilayered QoS Routing in the Sky. IETE Journal of Research, 2010, 56, 163.	1.8	3
48	A mobile phone-sensing system for emergency management: The SENSE-ME platform. , 2016, , .		3
49	Managing and Deploying Pervasive Wireless Internet Access through Attractive Connection Sharing and Reselling Mechanisms. Journal of Networks, 2013, 8, .	0.4	3
50	Multimedia GEO Satellite Architecture based on DVB-RCS: Admission Control Issue for High Interactivity Traffic Sources. IETE Journal of Research, 2006, 52, 97-104.	1.8	2
51	HAP-Satellte architecture supporting efficient multilayered routing. International Conference on Advanced Communication Technology, 2007, , .	0.0	2
52	GITA: New Architectures for Interactive Fruition of Historical and Artistic Contents on Wireless Multi-technology Platform. , 2008, , .		2
53	Eavesdropping wireless video packets to improve standard multicast transmission in Wi-Fi networks. , 2010, , .		2
54	Routing and Scalability Issues for Multi-layered Satellite-HAPs Networks. , 2010, , .		2

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55	A Software Defined Network Solution for Spontaneous Wireless Access Extension. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 515-520.	0.2	2
56	New wireless communication architectures for interactive fruition of historical and artistic contents. , 2008, , .		1
57	WEVCast: Practical implementation and testing of effective multicast services for Wi-Fi networks. , 2012, , .		1
58	Accurate and energy-efficient localization system for Smartphones: A feasible implementation. , 2013, , .		1
59	Effective supplying bandwidth policies for wireless cognitive networks: A logistics approach. , 2013, , .		1
60	On the economic sustainability of supplying bandwidth policies in multi-layer wireless cognitive networks. Applied Mathematical Modelling, 2016, 40, 5123-5138.	2.2	1
61	On the performance of CAC algorithms in multimedia geostationary satellite networks. , 0, , .		0
62	Average degradation degree fair adaptation algorithm in wireless network with mobile hosts. , 0, , .		0
63	Encouraging wireless connection sharing by means of an attractive pricing strategy. , 2009, , .		0
64	Energy-efficient and accurate fingerprinting-based localization system for smartphones. , 2013, , .		0
65	E-ALPHA: Edge-based Assisted Living Platform for Home cAre. , 2020, , .		0
66	Pervasive and Interactive Use of Multimedia Contents via Multi-Technology Location-Aware Wireless Architectures. , 0, , 103-125.		0