

# Giuseppe Piro

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

3,115  
citations

394421

19  
h-index

206112

48  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2861  
citing authors

#	ARTICLE	IF	CITATIONS
1	Downlink Packet Scheduling in LTE Cellular Networks: Key Design Issues and a Survey. IEEE Communications Surveys and Tutorials, 2013, 15, 678-700.	39.4	610
2	Simulating LTE Cellular Systems: An Open-Source Framework. IEEE Transactions on Vehicular Technology, 2011, 60, 498-513.	6.3	581
3	Information centric services in Smart Cities. Journal of Systems and Software, 2014, 88, 169-188.	4.5	265
4	Two-Level Downlink Scheduling for Real-Time Multimedia Services in LTE Networks. IEEE Transactions on Multimedia, 2011, 13, 1052-1065.	7.2	194
5	IoT-aided robotics applications: Technological implications, target domains and open issues. Computer Communications, 2014, 54, 32-47.	5.1	175
6	HetNets Powered by Renewable Energy Sources: Sustainable Next-Generation Cellular Networks. IEEE Internet Computing, 2013, 17, 32-39.	3.3	146
7	Public Key Authentication and Key Agreement in IoT Devices With Minimal Airtime Consumption. IEEE Embedded Systems Letters, 2017, 9, 1-4.	1.9	79
8	Terahertz Communications in Human Tissues at the Nanoscale for Healthcare Applications. IEEE Nanotechnology Magazine, 2015, 14, 404-406.	2.0	75
9	On the design of an energy-harvesting protocol stack for Body Area Nano-NETworks. Nano Communication Networks, 2015, 6, 74-84.	2.9	60
10	Key Management Protocol with Implicit Certificates for IoT systems. , 2015, , .		55
11	A two-level scheduling algorithm for QoS support in the downlink of LTE cellular networks. , 2010, , .		49
12	Terahertz electromagnetic field propagation in human tissues: A study on communication capabilities. Nano Communication Networks, 2016, 10, 51-59.	2.9	47
13	On accurate simulations of LTE femtocells using an open source simulator. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	45
14	OAuth-IoT: An access control framework for the Internet of Things based on open standards. , 2017, , .		45
15	Multi-Task Learning at the Mobile Edge: An Effective Way to Combine Traffic Classification and Prediction. IEEE Transactions on Vehicular Technology, 2020, 69, 10362-10374.	6.3	38
16	Defining Communication at the Bottom. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2015, 1, 90-96.	2.1	35
17	Simulating Wireless Nano Sensor Networks in the NS-3 Platform. , 2013, , .		33
18	Information-centric networking and multimedia services: present and future challenges. Transactions on Emerging Telecommunications Technologies, 2014, 25, 392-406.	3.9	30

#	ARTICLE	IF	CITATIONS
19	When Renewable Energy Meets LoRa: A Feasibility Analysis on Cable-Less Deployments. IEEE Internet of Things Journal, 2018, 5, 5097-5108.	8.7	28
20	On the Evaluation of the NB-IoT Random Access Procedure in Monitoring Infrastructures. Sensors, 2019, 19, 3237.	3.8	28
21	D2D in LTE vehicular networking: System model and upper bound performance. , 2015, , .		27
22	5G-air-simulator: An open-source tool modeling the 5G air interface. Computer Networks, 2020, 173, 107151.	5.1	26
23	Optimal and secure protocols in the IETF 6TiSCH communication stack. , 2014, , .		23
24	A standard compliant security framework for IEEE 802.15.4 networks. , 2014, , .		22
25	Multicast and Broadcast Services Over Mobile Networks: A Survey on Standardized Approaches and Scientific Outcomes. IEEE Communications Surveys and Tutorials, 2019, 21, 1020-1063.	39.4	21
26	On the Design of a Decentralized and Multiauthority Access Control Scheme in Federated and Cloud-Assisted Cyber-Physical Systems. IEEE Internet of Things Journal, 2018, 5, 5190-5204.	8.7	20
27	A system-level simulation framework for LTE Femtocells. , 2012, , .		19
28	3D Video transmissions over LTE: A performance evaluation. , 2013, , .		14
29	An improved IEEE 802.16 WiMAX module for the ns-3 simulator. , 2010, , .		14
30	LICITUS: A lightweight and standard compatible framework for securing layer-2 communications in the IoT. Computer Networks, 2016, 108, 66-77.	5.1	13
31	EXCHANGE: Securing IoT via channel anonymity. Computer Communications, 2019, 134, 14-29.	5.1	13
32	Understanding the 5G-air-simulator: A tutorial on design criteria, technical components, and reference use cases. Computer Networks, 2020, 177, 107314.	5.1	13
33	Publish-subscribe in mobile information centric networks: Modeling and performance evaluation. Computer Networks, 2017, 127, 317-339.	5.1	12
34	Uplink Resource Management in 5G: When a Distributed and Energy-Efficient Solution Meets Power and QoS Constraints. IEEE Transactions on Vehicular Technology, 2017, 66, 5176-5189.	6.3	12
35	CCN-TV: A Data-centric Approach to Real-Time Video Services. , 2013, , .		11
36	A Qualitative Cross-Comparison of Emerging Technologies for Software-Defined Systems. , 2019, , .		11

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37	Beyond the smart things: Towards the definition and the performance assessment of a secure architecture for the Internet of Nano-Things. Computer Networks, 2019, 162, 106856.	5.1	11
38	Initial MAC Exploration for Graphene-enabled Wireless Networks-on-Chip. , 2014, , .		10
39	Optimal resource allocation scheme for LTE-A systems with carrier aggregation. , 2014, , .		10
40	On securing IEEE 802.15.4 networks through a standard compliant framework. , 2014, , .		10
41	Massive MIMO interference coordination for 5G broadband access: Integration and system level study. Computer Networks, 2018, 147, 191-203.	5.1	10
42	Anticipatory Allocation of Communication and Computational Resources at the Edge Using Spatio-Temporal Dynamics of Mobile Users. IEEE Transactions on Network and Service Management, 2021, 18, 4548-4562.	4.9	10
43	Cascaded WLAN-FWA Networking and Computing Architecture for Pervasive In-Home Healthcare. IEEE Wireless Communications, 2021, 28, 92-99.	9.0	10
44	Link-layer security in TSCH networks: effect on slot duration. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3089.	3.9	9
45	On Modeling Shortest Path Length Distribution in Scale-Free Network Topologies. IEEE Systems Journal, 2018, 12, 3869-3872.	4.6	9
46	A look at random access for machine-type communications in 5th generation cellular networks. Internet Technology Letters, 2018, 1, e3.	1.9	9
47	QoS in Wireless LAN: A comparison between feedback-based and earliest due-date approaches. Computer Communications, 2012, 35, 298-308.	5.1	8
48	Multi-threaded Simulation of 4G Cellular Systems within the LTE-Sim Framework. , 2013, , .		8
49	Content Centric Services in Smart Cities. , 2012, , .		7
50	Blockchain as a service: Securing bartering functionalities in the H2020 symbloTe framework. Internet Technology Letters, 2019, 2, e72.	1.9	7
51	A Lean Control Theoretic Approach to Energy-Harvesting in Diffusion-Based Molecular Communications. IEEE Communications Letters, 2020, 24, 981-985.	4.1	7
52	A quantitative cross-comparison of container networking technologies for virtualized service infrastructures in local computing environments. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4234.	3.9	7
53	QoS provisioning in LTE-A networks with relay nodes. , 2012, , .		6
54	Looking at NB-IoT Over LEO Satellite Systems: Design and Evaluation of a Service-Oriented Solution. IEEE Internet of Things Journal, 2022, 9, 14952-14964.	8.7	6

#	ARTICLE	IF	CITATIONS
55	Extending the LTE-Sim Simulator with Multi-Band Scheduling Algorithms for Carrier Aggregation in LTE-Advanced Scenarios. , 2015, , .		5
56	Gazing into the Crystal Ball: When the Future Internet Meets the Mobile Clouds. IEEE Transactions on Cloud Computing, 2019, 7, 210-223.	4.4	5
57	Towards an Optimal Management of the 5G Cloud-RAN through a Spatio-Temporal Prediction of Usersâ€™ Dynamics. , 2020, , .		5
58	Performance evaluation of 3D video streaming services in LTE-Advanced networks. Wireless Networks, 2014, 20, 2255-2273.	3.0	4
59	On simulating Bloom filters in the ndnSIM open source simulator. Simulation Modelling Practice and Theory, 2015, 52, 149-163.	3.8	4
60	An IoT-based measurement system for aerial vehicles. , 2015, , .		4
61	Understanding the social impact of ICN: between myth and reality. AI and Society, 2017, 32, 401-419.	4.6	4
62	Design of Coordinated HeNB Deployments. , 2018, , .		4
63	Architecting RAN Slicing for URLLC: Design Decisions and Open Issues. , 2019, , .		4
64	An Autonomous Cybersecurity Framework for Next-generation Digital Service Chains. Journal of Network and Systems Management, 2021, 29, 1.	4.9	4
65	Model-Free Radio Map Estimation in Massive MIMO Systems via Semi-Parametric Gaussian Regression. IEEE Wireless Communications Letters, 2022, 11, 473-477.	5.0	4
66	3DStreaming: an open-source flexible framework for real-time 3D streaming services. Multimedia Tools and Applications, 2016, 75, 4411-4440.	3.9	3
67	Performance Evaluation and Packet Scheduling in HeNB Deployments. , 2018, , .		3
68	Extended EDCA for delay guarantees in wireless local area networks. Pervasive and Mobile Computing, 2009, 5, 402-418.	3.3	2
69	A semi-persistent scheduling scheme for videotelephony traffics in the uplink of LTE networks. , 2014, , .		2
70	When Blockchain Makes Ephemeral Keys Authentic: A Novel Key Agreement Mechanism in the IoT World. , 2018, , .		2
71	A Novel ICN-Based Communication Bus for Intelligent Transportation Systems. , 2018, , .		2
72	Unveiling Radio Resource Utilization Dynamics of Mobile Traffic through Unsupervised Learning. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
73	Deep reinforcement learning-aided $\langle \text{scp} \rangle \text{RAN} \langle / \text{scp} \rangle$ slicing enforcement supporting latency sensitive services in $\langle \text{scp} \rangle \text{B5G} \langle / \text{scp} \rangle$ networks. Internet Technology Letters, 2021, 4, e328.	1.9	2
74	A De-verticalizing Middleware for IoT Systems Based on Information Centric Networking Design. Communications in Computer and Information Science, 2017, , 197-211.	0.5	1
75	Information-Centric networking in environmental monitoring: An overview on publish-subscribe implementations. , 2017, , .		1
76	Information-centric publish-subscribe mechanisms for Intelligent Transportation Systems. , 2017, , .		1
77	A Softwarized Service Infrastructure for the Dynamic Orchestration of IT Resources in 5G Deployments. , 2020, , .		1
78	Providing Crowd-Sourced and Real-Time Media Services through an NDN-Based Platform. Modeling and Optimization in Science and Technologies, 2015, , 405-441.	0.7	1
79	A Feedback Control Strategy for Energy-Harvesting in Diffusion-Based Molecular Communication Systems. IEEE Transactions on Communications, 2020, , 1-1.	7.8	1
80	Distributed and Privacy-Preserving Data Dissemination at the Network Edge via Attribute-Based Searchable Encryption. , 2022, , .		1
81	A System Level Evaluation of SRTA-PI Transmission Scheme in the High-Speed Train Use Case. , 2018, , .		0
82	Towards Long-Lasting Nanoscale Wireless Communications in the Terahertz Band for Biomedical Applications. Lecture Notes in Computer Science, 2020, , 145-158.	1.3	0
83	An Optimized Energy-Harvesting Transmission Scheme for Diffusion-Based Molecular Communications. IEEE Transactions on Nanobioscience, 2023, 22, 345-355.	3.3	0
84	Boosting Service Provisioning in SloT by Exploiting Trust and Capability Levels of Social Objects. , 2022, , .		0