Gennaro Boggia

List of Publications by Year
in descending order

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51 papers	2,170 citations	516710 16 h-index	361022 35 g-index
53 all docs	53 docs citations	53 times ranked	2343 citing authors

#	Article	IF	Citations
1	Simulating LTE Cellular Systems: An Open-Source Framework. IEEE Transactions on Vehicular Technology, 2011, 60, 498-513.	6.3	581
2	Standardized Protocol Stack for the Internet of (Important) Things. IEEE Communications Surveys and Tutorials, 2013, 15, 1389-1406.	39.4	581
3	IoT-aided robotics applications: Technological implications, target domains and open issues. Computer Communications, 2014, 54, 32-47.	5.1	175
4	Public Key Authentication and Key Agreement in IoT Devices With Minimal Airtime Consumption. IEEE Embedded Systems Letters, 2017, 9, 1-4.	1.9	79
5	Terahertz Communications in Human Tissues at the Nanoscale for Healthcare Applications. IEEE Nanotechnology Magazine, 2015, 14, 404-406.	2.0	75
6	Energy-Efficient LoRaWAN for Industry 4.0 Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 891-902.	11.3	62
7	OAuth-IoT: An access control framework for the Internet of Things based on open standards. , 2017, , .		45
8	DyDAP: A dynamic data aggregation scheme for privacy aware wireless sensor networks. Journal of Systems and Software, 2012, 85, 152-166.	4.5	42
9	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
10	Secure Wireless Multimedia Sensor Networks: A Survey. , 2009, , .		34
11	Energy Harvesting in LoRaWAN: A Cost Analysis for the Industry 4.0. IEEE Communications Letters, 2018, 22, 2358-2361.	4.1	33
12	Position and Velocity Estimation of a Non-Cooperative Source From Asynchronous Packet Arrival Time Measurements. IEEE Transactions on Mobile Computing, 2018, 17, 2166-2179.	5.8	32
13	Informationâ€centric networking and multimedia services: present and future challenges. Transactions on Emerging Telecommunications Technologies, 2014, 25, 392-406.	3.9	30
14	When Renewable Energy Meets LoRa: A Feasibility Analysis on Cable-Less Deployments. IEEE Internet of Things Journal, 2018, 5, 5097-5108.	8.7	28
15	On the Evaluation of the NB-IoT Random Access Procedure in Monitoring Infrastructures. Sensors, 2019, 19, 3237.	3.8	28
16	5G-air-simulator: An open-source tool modeling the 5G air interface. Computer Networks, 2020, 173, 107151.	5.1	26
17	A standard compliant security framework for IEEE 802.15.4 networks. , 2014, , .		22
18	A Markov Model for Characterizing IEEE 802.15.4 MAC Layer in Noisy Environments. IEEE Transactions on Industrial Electronics, 2015, 62, 5133-5142.	7.9	20

#	Article	IF	Citations
19	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
20	ICN software tools: Survey and cross-comparison. Simulation Modelling Practice and Theory, 2016, 63, 23-46.	3.8	15
21	EXCHANge: Securing IoT via channel anonymity. Computer Communications, 2019, 134, 14-29.	5.1	13
22	Understanding the 5G-air-simulator: A tutorial on design criteria, technical components, and reference use cases. Computer Networks, 2020, 177, 107314.	5.1	13
23	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
24	A Qualitative Cross-Comparison of Emerging Technologies for Software-Defined Systems. , 2019, , .		11
25	Massive MIMO interference coordination for 5G broadband access: Integration and system level study. Computer Networks, 2018, 147, 191-203.	5.1	10
26	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
27	Linkâ€layer security in TSCH networks: effect on slot duration. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3089.	3.9	9
28	A look at random access for machineâ€type communications in 5th generation cellular networks. Internet Technology Letters, 2018, 1, e3.	1.9	9
29	SETA: A secure sharing of tasks in clustered wireless sensor networks. , 2013, , .		8
30	Blockchain as a service: Securing bartering functionalities in the H2020 symbIoTe framework. Internet Technology Letters, 2019, 2, e72.	1.9	7
31	A Lean Control Theoretic Approach to Energy-Harvesting in Diffusion-Based Molecular Communications. IEEE Communications Letters, 2020, 24, 981-985.	4.1	7
32	A quantitative crossâ€comparison of container networking technologies for virtualized service infrastructures in local computing environments. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4234.	3.9	7
33	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
34	CCN simulators. , 2014, , .		5
35	Towards an Optimal Management of the 5G Cloud-RAN through a Spatio-Temporal Prediction of Usersâ€™ Dynamics. , 2020, , .		5
36	An IoT-based measurement system for aerial vehicles. , 2015, , .		4

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37	A novel approach for characterizing multimedia 3D video streams by means of quasiperiodic processes. Signal, Image and Video Processing, 2016, 10, 1113-1118.	2.7	4
38	Understanding the social impact of ICN: between myth and reality. AI and Society, 2017, 32, 401-419.	4.6	4
39	Architecting RAN Slicing for URLLC: Design Decisions and Open Issues. , 2019, , .		4
40	An Autonomous Cybersecurity Framework for Next-generation Digital Service Chains. Journal of Network and Systems Management, 2021, 29, 1.	4.9	4
41	Architecting 5G RAN slicing for location aware vehicle to infrastructure communications: The Autonomous Tram use case. Computer Networks, 2021, 200, 108501.	5.1	3
42	$$hbox {S}^2$$ S 2 DCC: secure selective dropping congestion control in hybrid wireless multimedia sensor networks. Wireless Networks, 2018, 24, 309-328.	3.0	2
43	Unveiling Radio Resource Utilization Dynamics of Mobile Traffic through Unsupervised Learning. , 2019, , .		2
44	Deep reinforcement learningâ€aided <scp>RAN</scp> slicing enforcement supporting latency sensitive services in <scp>B5G</scp> networks. Internet Technology Letters, 2021, 4, e328.	1.9	2
45	Selective Dropping Congestion Control for wireless multimedia sensor networks. , 2011, , .		1
46	A Softwarized Service Infrastructure for the Dynamic Orchestration of IT Resources in 5G Deployments. , 2020, , .		1
47	A Feedback Control Strategy for Energy-Harvesting in Diffusion-Based Molecular Communication Systems. IEEE Transactions on Communications, 2020, , 1-1.	7.8	1
48	Distributed and Privacy-Preserving Data Dissemination at the Network Edge via Attribute-Based Searchable Encryption. , 2022, , .		1
49	Towards Long-Lasting Nanoscale Wireless Communications in the Terahertz Band for Biomedical Applications. Lecture Notes in Computer Science, 2020, , 145-158.	1.3	0
50	An Optimized Energy-Harvesting Transmission Scheme for Diffusion-Based Molecular Communications. IEEE Transactions on Nanobioscience, 2023, 22, 345-355.	3.3	0
51	Boosting Service Provisioning in SIoT by Exploiting Trust and Capability Levels of Social Objects. , 2022, , .		0