Valerio Frascolla

List of Publications by Year
in descending order

55	1,057	1040056 9	1199594 12
papers	citations	h-index	g-index

55	55	55	1247
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Novel Machine Learning-Based Scheme for Spectrum Sharing in Virtualized 5G Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19691-19703.	8.0	4
2	Learning-Based URLLC-Aware Task Offloading for Internet of Health Things. IEEE Journal on Selected Areas in Communications, 2021, 39, 396-410.	14.0	70
3	Experimentation and 5G KPI measurements in the 5GENESIS platforms. , 2021, , .		4
4	Dynamic Computation Offloading in Multi-Access Edge Computing via Ultra-Reliable and Low-Latency Communications. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 342-356.	2.8	51
5	What Are 3GPP 5G Phase 1 and 2 and What Comes After. Communications in Computer and Information Science, 2020, , 385-398.	0.5	0
6	Multi-Carrier M-ary DCSK System With Code Index Modulation: An Efficient Solution for Chaotic Communications. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1375-1386.	10.8	164
7	Terahertz-Enabled Wireless System for Beyond-5G Ultra-Fast Networks: A Brief Survey. IEEE Network, 2019, 33, 89-95.	6.9	133
8	Optimizing C-RAN Backhaul Topologies: A Resilience-Oriented Approach Using Graph Invariants. Applied Sciences (Switzerland), 2019, 9, 136.	2.5	11
9	Guest Editorial Special Issue on 5G and Beyondâ€"Mobile Technologies and Applications for IoT. IEEE Internet of Things Journal, 2019, 6, 203-206.	8.7	12
10	Handover Optimality in Heterogeneous Networks. , 2019, , .		1
11	Context-Aware Task Offloading for Multi-Access Edge Computing: Matching with Externalities. , 2018, , .		23
12	Cross-Layer Optimization in Terminals. , 2018, , .		0
13	Vehicular Communications: Standardization and Open Issues. IEEE Communications Standards Magazine, 2018, 2, 74-80.	4.9	90
14	A Low-Latency and Massive-Connectivity Vehicular Fog Computing Framework for 5G. , 2018, , .		13
15	Mobile Terminals System-Level Memory Exploratio for Power and Performance Optimization. , 2018, , .		1
16	Optical and wireless network convergence in 5G systems â€“ an experimental approach. , 2018, , .		2
17	Ultra Reliable Communication for Robot Mobility enabled by SDN Splitting of WiFi Functions. , 2018, , .		13
18	5GENESIS: The Genesis of a flexible 5G Facility. , 2018, , .		35

#	Article	IF	Citations
19	Proof-of-Concept of Capacity Expansion Through Extended Dynamic Spectrum Access for 5G. , 2018, , .		0
20	Management of 3.5-GHz Spectrum in 5G Dense Networks: A Hierarchical Radio Resource Management Scheme. IEEE Vehicular Technology Magazine, 2018, 13, 57-64.	3.4	21
21	Architecture of mmWave Edge Cloud in 5G-MiEdge. , 2018, , .		8
22	Breaking the Access Technologies Silos by Enhancing MAC and RRM in 5G+ Networks. , 2018, , .		1
23	Millimeter-waves, MEC, and network softwarization as enablers of new 5G business opportunities. , 2018, , .		11
24	Enhanced C-RAN Using D2D Network. , 2017, 55, 100-107.		60
25	Trends and challenges for autonomic RRM and MAC functionality for QoS provision and capacity expansions in the context of 5G beyond 6GHz. , 2017, , .		2
26	Power and performance aware electronic system level design. , 2017, , .		3
27	Parallel fed 2Ã—1 antenna array utilizing surface wave cancellation on LTCC substrate. , 2017, , .		0
28	Dynamic Spectrum Management for 5G. IEEE Wireless Communications, 2017, 24, 12-13.	9.0	5
29	Development of 5G CHAMPION testbeds for 5G services at the 2018 Winter Olympic Games. , 2017, , .		11
30	5G-MiEdge: Design, standardization and deployment of 5G phase II technologies: MEC and mmWaves joint development for Tokyo 2020 Olympic games. , 2017, , .		28
31	Adaptive automotive communications solutions of 10 years lifetime enabled by ETSI RRS software reconfiguration technology. , 2017, , .		2
32	Narrowband IoT Service Provision to 5G User Equipment via a Satellite Component. , 2017, , .		20
33	Highly efficient representation of reconfigurable code based on a radio virtual machine: Optimization to any target platform. , 2017, , .		1
34	Optimal sensing and power allocation in pilot-aided shared access systems: A BER minimization approach. , 2016, , .		3
35	5G CHAMPION - Rolling out 5G in 2018. , 2016, , .		28
36	Dynamic Licensed Shared Access - A New Architecture and Spectrum Allocation Techniques. , 2016, , .		23

#	Article	IF	Citations
37	Joint Beam-Frequency Multiuser Scheduling for Millimeter-Wave Downlink Multiplexing. , 2016, , .		7
38	Energyâ€efficient interference management in LTEâ€D2D communication. IET Signal Processing, 2016, 10, 197-202.	1.5	30
39	5G systems: The mmMAGIC project perspective on use cases and challenges between 6â€“100 GHz. , 2016, , .		11
40	5G systems: The mmMAGIC project perspective on use cases and challenges between 6â€“100 GHz. , 2016, , .		3
41	Quality of service provision and capacity expansion through extended-DSA for 5G. , 2016, , .		10
42	A strategy for research projects to impact standards and regulatory bodies: The approach of the EU-funded project MiWaveS. , 2015, , .		0
43	Dynamic LSA for 5G networks the ADEL perspective. , 2015, , .		14
44	Enabling wireless backhauling for next generation mmWave networks. , 2015, , .		17
45	MmWave use cases and prototyping: A way towards 5G standardization. , 2015, , .		16
46	Challenges and opportunities for millimeter-wave mobile access standardisation. , 2014, , .		12
47	Licensed shared access — State-of-the-art and current challenges. , 2014, , .		20
48	Energy-Efficient Hardware Architectures for the Packet Data Convergence Protocol in LTE-Advanced Mobile Terminals. VLSI Design, 2013, 2013, 1-15.	0.5	0
49	Power analysis and optimization of the ZUC stream cipher for LTE-Advanced mobile terminals. , 2012, , .		10
50	A versatile low-power ciphering and integrity protection unit for LTE-advanced mobile devices. , 2012, , .		3
51	Pedestrian Mobility Modelling for the Simulation of Heterogeneous Wireless Infrastructures. , 2010, , .		3
52	Joint Uplink and Downlink Performance Profiling of LTE Protocol Processing on a Mobile Platform. International Journal of Embedded and Real-Time Communication Systems, 2010, 1, 21-39.	0.5	9
53	Coverage Prediction in Urban Environments for Inter-System Mobility Simulations. , 2009, , .		1
54	Performance analysis of LTE protocol processing on an ARM based mobile platform. , 2009, , .		37

#	Article	IF	Citations
55	An Enhanced POLIS Framework for Fast Exploration and Implementation of I/O Subsystems on CSoC Platforms. Lecture Notes in Computer Science, 2002, , 677-686.	1.3	0