

# Daniele Tarchi

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120  
papers

961  
citations

16  
h-index

24  
g-index

142  
ext. papers

1,279  
ext. citations

3.3  
avg, IF

4.7  
L-index

#	Paper	IF	Citations
120	Open-Source MQTT-Based End-to-End IoT System for Smart City Scenarios. <i>Future Internet</i> , <b>2022</b> , 14, 57	3.3	0
119	Zero-Energy Computation Offloading with Simultaneous Wireless Information and Power Transfer for Two-Hop 6G Fog Networks. <i>Energies</i> , <b>2022</b> , 15, 1632	3.1	0
118	Machine Learning for Radio Resource Management in Multibeam GEO Satellite Systems. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 992	2.6	2
117	A network operator-biased approach for multi-service network function placement in a 5G network slicing architecture. <i>Computer Networks</i> , <b>2021</b> , 108598	5.4	2
116	Energy Efficient Uplink Transmission in Cooperative mmWave NOMA Networks with Wireless Power Transfer. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	5
115	A Fog Computing Orchestrator Architecture with Service Model Awareness. <i>IEEE Transactions on Network and Service Management</i> , <b>2021</b> , 1-1	4.8	1
114	On the Design of Federated Learning in Latency and Energy Constrained Computation Offloading Operations in Vehicular Edge Computing Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	4
113	A Real-Time Energy-Saving Mechanism in Internet of Vehicles Systems. <i>IEEE Access</i> , <b>2021</b> , 9, 157842-157858	3.5	5
112	On-Demand Service Deployment Strategies for Fog-as-a-Service Scenarios. <i>IEEE Communications Letters</i> , <b>2021</b> , 25, 1500-1504	3.8	1
111	Convolutional Neural Networks for Flexible Payload Management in VHTS Systems. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 4675-4686	4.3	6
110	Computation Offloading in Heterogeneous Vehicular Edge Networks: On-line and Off-policy Bandit Solutions. <i>IEEE Transactions on Mobile Computing</i> , <b>2021</b> , 1-1	4.6	7
109	Cooperative Multi-Agent Deep Reinforcement Learning for Resource Management in Full Flexible VHTS Systems. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2021</b> , 1-1	6.6	2
108	Multi-Objective Computation Sharing in Energy and Delay Constrained Mobile Edge Computing Environments. <i>IEEE Transactions on Mobile Computing</i> , <b>2021</b> , 20, 2992-3005	4.6	25
107	Towards a Novel AirGround Intelligent Platform for Vehicular Networks: Technologies, Scenarios, and Challenges. <i>Smart Cities</i> , <b>2021</b> , 4, 1469-1495	3.3	0
106	<b>2020</b> ,		3
105	Optimal auction for delay and energy constrained task offloading in mobile edge computing. <i>Computer Networks</i> , <b>2020</b> , 183, 107527	5.4	13
104	An energy harvesting solution for computation offloading in Fog Computing networks. <i>Computer Communications</i> , <b>2020</b> , 160, 577-587	5.1	7

103	Android-based Implementation of a Fog Computing and Networking Environment <b>2019</b> ,		2
102	Computation Offloading Decision Bounds in SWIPT-Based Fog Networks <b>2019</b> ,		1
101	An Evolutionary-Based Algorithm for Smart-Living Applications Placement in Fog Networks <b>2019</b> ,		3
100	Centralized and Distributed Architectures for Energy and Delay Efficient Fog Network-Based Edge Computing Services. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2019</b> , 3, 250-263	4	33
99	. <i>Proceedings of the IEEE</i> , <b>2018</b> , 106, 738-760	14.3	31
98	Supporting Mobile Cloud Computing in Smart Cities via Randomized Algorithms. <i>IEEE Systems Journal</i> , <b>2018</b> , 12, 1598-1609	4.3	10
97	A control and data plane split approach for partial offloading in mobile fog networks <b>2018</b> ,		7
96	Gateway selection and clustering in multi-interface wireless mesh networks considering network reliability and traffic. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2018</b> , 29, e3215	1.9	4
95	Mobile Edge Computing Partial Offloading Techniques for Mobile Urban Scenarios <b>2018</b> ,		8
94	A reliable, secure, and energy efficient smart grid node allocation algorithm for heterogeneous network scenarios. <i>International Journal of Communication Systems</i> , <b>2018</b> , 31, e3799	1.7	1
93	An M2M cognitive MAC protocol for overlaid OFDMA environments. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2017</b> , 28, e2955	1.9	5
92	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2017</b> , 53, 2344-2358	3.7	21
91	Energy Efficient Adaptive Network Coding Schemes for Satellite Communications. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2017</b> , 202-212	0.2	2
90	A Unified Urban Mobile Cloud Computing Offloading Mechanism for Smart Cities <b>2017</b> , 55, 30-37		44
89	Physical layer aware adaptive network coding schemes for satellite communications. <i>International Journal of Satellite Communications and Networking</i> , <b>2017</b> , 35, 537-549	1.7	2
88	Satellite-enabled LTE systems in LEO constellations <b>2017</b> ,		35
87	Cognitive approaches to enhance spectrum availability for satellite systems. <i>International Journal of Satellite Communications and Networking</i> , <b>2017</b> , 35, 407-442	1.7	20
86	Stochastic Optimization of Cognitive Networks. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2017</b> , 1, 40-58	4	4

85	An Energy-Aware Offloading Clustering Approach (EAOCA) in fog computing <b>2017</b> ,		12
84	An Energy and Delay-Efficient Partial Offloading Technique for Fog Computing Architectures <b>2017</b> ,		21
83	Network Coding Channel Virtualization Schemes for Satellite Multicast Communications <b>2017</b> ,		1
82	A Cost Function Based Prioritization Method for Smart Grid Communication Network. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2017</b> , 16-24 <sup>0.2</sup>		4
81	Using a Cost Function to Choose the Best Communication Technology for Fulfilling the Smart Meters Communication Requirements. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2017</b> , 33-42	0.2	1
80	A cluster based computation offloading technique for mobile cloud computing in smart cities <b>2016</b> ,		10
79	System capacity evaluation of DVB-S2X based medium earth orbit satellite network operating at Ka band <b>2016</b> ,		6
78	Adaptive network coding schemes for satellite communications <b>2016</b> ,		5
77	Genetic inspired scheduling algorithm for cognitive satellite systems <b>2016</b> ,		3
76	A channel state-driven ACM algorithm for mobile satellite communications. <i>International Journal of Satellite Communications and Networking</i> , <b>2016</b> , 34, 787-807	1.7	2
75	<b>2016</b> ,		2
74	Cognitive radio scenarios for satellite communications <b>2015</b> , 303-336		10
73	Future trends in broadband satellite communications: information centric networks and enabling technologies. <i>International Journal of Satellite Communications and Networking</i> , <b>2015</b> , 33, 473-490	1.7	18
72	An interference estimation technique for Satellite cognitive radio systems <b>2015</b> ,		18
71	Spectrum awareness and exploitation for Cognitive Radio Satellite Communications <b>2015</b> ,		7
70	Smart meters density effects on the number of collectors in a Smart Grid <b>2015</b> ,		6
69	Downlink cross-layer scheduling strategies for long-term evolution and long-term evolution-advanced systems. <i>Wireless Communications and Mobile Computing</i> , <b>2015</b> , 15, 1234-1246	1.9	
68	Statistical Modeling of Spectrum Sensing Energy in Multi-Hop Cognitive Radio Networks. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 22, 356-360	3.2	13

67	Performance improvement techniques for the DVB-RCS2 return link air interface. <i>International Journal of Satellite Communications and Networking</i> , <b>2015</b> , 33, 371-390	1.7	6
66	<b>2015</b> ,		2
65	Impact of Interdisciplinary Research on Planning, Running, and Managing Electromobility as a Smart Grid Extension. <i>IEEE Access</i> , <b>2015</b> , 3, 2281-2305	3.5	11
64	Spectrum awareness techniques for 5G satellite communications <b>2015</b> ,		4
63	On the Feasibility of Interference Estimation Techniques in Cognitive Satellite Environments with Impairments. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2015</b> , 133-146	0.2	2
62	Cognitive Radio Techniques for M2M Environments. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , <b>2015</b> , 909-927	0.2	
61	Extending the Usable Ka Band Spectrum for Satellite Communications: The CoRaSat Project. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2015</b> , 119-132	0.2	5
60	Detection and Mitigation of Impulsive Interference on OFDM Signals Based on Spectrum Sensing, Blanking and Symbol Retransmission. <i>Wireless Personal Communications</i> , <b>2014</b> , 77, 2631-2647	1.9	1
59	Cognitive Radio for Ka Band Satellite Communications <b>2014</b> ,		3
58	A partial offloading technique for wireless mobile cloud computing in smart cities <b>2014</b> ,		16
57	<b>2014</b> ,		8
56	<b>2014</b> ,		3
55	Technical Challenges for Cognitive Radio Application in Satellite Communications <b>2014</b> ,		17
54	<b>2014</b> ,		3
53	A user-satisfaction based offloading technique for smart city applications <b>2014</b> ,		9
52	A joint communication and computing resource management scheme for pervasive grid networks. <i>Wireless Communications and Mobile Computing</i> , <b>2013</b> , 13, 1309-1323	1.9	2
51	<b>2013</b> ,		9
50	Proposal of a cognitive based MAC protocol for M2M environments <b>2013</b> ,		9

49	Analysis of a State Based Approach for Adaptive Coding and Modulation in Mobile Satellite Environments <b>2013</b> ,		2
48	Adaptive coding and modulation techniques for next generation hand-held mobile satellite communications <b>2013</b> ,		7
47	A Fully Reconfigurable Approach to Emergency Management. <i>International Journal of Adaptive Resilient and Autonomic Systems</i> , <b>2013</b> , 4, 80-100		
46	Adaptive coding and modulation techniques for mobile satellite communications: A state estimation approach <b>2012</b> ,		5
45	Wireless Communication Protocols for Distributed Computing Environments <b>2011</b> ,		1
44	Cognitive hybrid satellite-terrestrial systems <b>2011</b> ,		7
43	An Optimized Resource Allocation Scheme Based on a Multidimensional Multiple-Choice Approach with Reduced Complexity <b>2011</b> ,		3
42	A Novel Routing Algorithm for Mobile Pervasive Computing <b>2010</b> ,		5
41	An integrated communication-computing solution in emergency management <b>2010</b> ,		2
40	Analysis and design of a TETRA-DMO and IEEE 802.11 integrated network <b>2010</b> ,		1
39	Impulse noise mitigation techniques for xDSL systems in a real environment. <i>IEEE Transactions on Consumer Electronics</i> , <b>2010</b> , 56, 2106-2114	4.8	8
38	A novel communication infrastructure for emergency management: the In.Sy.Eme. vision. <i>Wireless Communications and Mobile Computing</i> , <b>2010</b> , 10, 1672-1681	1.9	12
37	The communication infrastructure for emergency management <b>2009</b> ,		3
36	Adaptive scheduling algorithms for multimedia traffic in wireless OFDMA systems. <i>Physical Communication</i> , <b>2009</b> , 2, 228-234	2.2	7
35	Novel link adaptation for TETRA cellular systems. <i>International Journal of Communication Systems</i> , <b>2009</b> , 22, 483-501	1.7	6
34	Performance evaluation of the MAC protocol in IEEE 802.16 systems with data and VoIP traffic scheduling. <i>Wireless Communications and Mobile Computing</i> , <b>2009</b> , 9, 35-46	1.9	2
33	Next generation grids and wireless communication networks: towards a novel integrated approach. <i>Wireless Communications and Mobile Computing</i> , <b>2009</b> , 9, 445-467	1.9	26
32	Adaptive subcarrier allocation schemes for wireless ofdma systems in wimax networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2009</b> , 27, 217-225	14.2	43

31	A Novel Cognitive Networking Scenario for IEEE 802.16 Networks <b>2009</b> ,		6
30	Adaptive modulation and coding techniques for OFDMA systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2009</b> , 8, 4876-4883	9.6	47
29	Proposal of a Fixed Communication System Sharing the Bandwidth of an Existing Personal Communication Network. <i>IEEE Transactions on Vehicular Technology</i> , <b>2008</b> , 57, 180-187	6.8	1
28	. <i>IEEE Wireless Communications</i> , <b>2008</b> , 15, 8-14	13.4	40
27	Efficient Adaptive Modulation and Coding Techniques for WiMAX Systems <b>2008</b> ,		12
26	On the Ranging and Scheduling of Data Traffic in OFDMA Mobile Environments <b>2008</b> ,		2
25	<b>2008</b> ,		1
24	<b>2008</b> ,		12
23	<b>2007</b> ,		5
22	Efficient scheduling techniques for high data-rate wireless personal area networks. <i>International Journal of Sensor Networks</i> , <b>2007</b> , 2, 128	0.8	5
21	A neural network approach to MMSE receivers in a DS-CDMA multipath fading environment. <i>IEEE Transactions on Communications</i> , <b>2006</b> , 54, 778-782	6.9	3
20	Quality of Service Management in IEEE 802.16 Wireless Metropolitan Area Networks <b>2006</b> ,		16
19	. <i>Journal of Communications and Networks</i> , <b>2006</b> , 8, 369-377	4.1	8
18	<b>2005</b> , 43, 95-100		7
17	. <i>IEEE Wireless Communications</i> , <b>2005</b> , 12, 21-27	13.4	9
16	A MAC layer traffic-priority management technique in CDMA based ad-hoc networks <b>2005</b> ,		2
15	Medium access control protocol for CDMA ad hoc networks. <i>Electronics Letters</i> , <b>2004</b> , 40, 1131	1.1	3
14	<b>2004</b> ,		1

13	A Neural Network-Based Blind Multiuser Receiver for DS-CDMA Communication Systems. <i>Wireless Personal Communications</i> , <b>2003</b> , 27, 195-213	1.9	6
12	A neural network for constrained optimization with application to CDMA communication systems. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , <b>2003</b> , 50, 484-487		11
11	The Role of WiMAX Technology in Distributed Wide Area Monitoring Applications129-143		
10	Energy efficient routing algorithms for application to agro-food wireless sensor networks		10
9	Dynamic SIR based admission control algorithm for 3G wireless networks		3
8	A link adaptation strategy for QoS support in IEEE 802.11e-based WLANs		11
7			4
6	Multimedia traffic management at MAC layer in IEEE 802.15.3a personal area networks		2
5	A MAC technique for CDMA based ad-hoc networks		5
4	Density-Aware Smart Grid Node Allocation in Heterogeneous Radio Access Technology Environments		1
3	Agile optimization for a real-time facility location problem in Internet of Vehicles networks. <i>Networks</i> ,	1.6	6
2	A simheuristic algorithm for video streaming flows optimisation with QoS threshold modelled as a stochastic single-allocation p-hub median problem. <i>Journal of Simulation</i> ,1-14	1.9	6
1	Supervised machine learning for power and bandwidth management in very high throughput satellite systems. <i>International Journal of Satellite Communications and Networking</i> ,	1.7	1