

# Daniele Tarchi

## List of Publications by Year in descending order

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141  
papers

1,643  
citations

430843

18  
h-index

477281

29  
g-index

142  
all docs

142  
docs citations

142  
times ranked

1343  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Objective Computation Sharing in Energy and Delay Constrained Mobile Edge Computing Environments. IEEE Transactions on Mobile Computing, 2021, 20, 2992-3005.	5.8	86
2	Adaptive modulation and coding techniques for OFDMA systems. IEEE Transactions on Wireless Communications, 2009, 8, 4876-4883.	9.2	70
3	Adaptive subcarrier allocation schemes for wireless ofdma systems in wimax networks. IEEE Journal on Selected Areas in Communications, 2009, 27, 217-225.	14.0	53
4	A Unified Urban Mobile Cloud Computing Offloading Mechanism for Smart Cities. , 2017, 55, 30-37.		53
5	Satellite-enabled LTE systems in LEO constellations. , 2017, , .		52
6	A broadband wireless communications system for emergency management. IEEE Wireless Communications, 2008, 15, 8-14.	9.0	51
7	Centralized and Distributed Architectures for Energy and Delay Efficient Fog Network-Based Edge Computing Services. IEEE Transactions on Green Communications and Networking, 2019, 3, 250-263.	5.5	50
8	On the Design of Federated Learning in Latency and Energy Constrained Computation Offloading Operations in Vehicular Edge Computing Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 2041-2057.	6.3	47
9	The Need of Multidisciplinary Approaches and Engineering Tools for the Development and Implementation of the Smart City Paradigm. Proceedings of the IEEE, 2018, 106, 738-760.	21.3	42
10	Cognitive radio scenarios for satellite communications. , 2015, , 303-336.		35
11	Capacity Statistics Evaluation for Next Generation Broadband MEO Satellite Systems. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 2344-2358.	4.7	32
12	An Energy and Delay-Efficient Partial Offloading Technique for Fog Computing Architectures. , 2017, , .		31
13	Optimal auction for delay and energy constrained task offloading in mobile edge computing. Computer Networks, 2020, 183, 107527.	5.1	30
14	Future trends in broadband satellite communications: information centric networks and enabling technologies. International Journal of Satellite Communications and Networking, 2015, 33, 473-490.	1.8	29
15	Cognitive approaches to enhance spectrum availability for satellite systems. International Journal of Satellite Communications and Networking, 2017, 35, 407-442.	1.8	29
16	Next generation grids and wireless communication networks: towards a novel integrated approach. Wireless Communications and Mobile Computing, 2009, 9, 445-467.	1.2	28
17	Computation Offloading in Heterogeneous Vehicular Edge Networks: On-Line and Off-Policy Bandit Solutions. IEEE Transactions on Mobile Computing, 2022, 21, 4233-4248.	5.8	25
18	Technical Challenges for Cognitive Radio Application in Satellite Communications. , 2014, , .		24

#	ARTICLE	IF	CITATIONS
19	Quality of Service Management in IEEE 802.16 Wireless Metropolitan Area Networks. , 2006, , .		23
20	Energy efficient routing algorithms for application to agro-food wireless sensor networks. , 0, , .		22
21	Adaptive Subcarrier Allocation Algorithms in Wireless OFDMA Systems. , 2008, , .		22
22	A partial offloading technique for wireless mobile cloud computing in smart cities. , 2014, , .		22
23	Impact of Interdisciplinary Research on Planning, Running, and Managing Electromobility as a Smart Grid Extension. IEEE Access, 2015, 3, 2281-2305.	4.2	22
24	An interference estimation technique for Satellite cognitive radio systems. , 2015, , .		22
25	Energy Efficient Uplink Transmission in Cooperative mmWave NOMA Networks With Wireless Power Transfer. IEEE Transactions on Vehicular Technology, 2022, 71, 391-405.	6.3	22
26	A neural network for constrained optimization with application to CDMA communication systems. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2003, 50, 484-487.	2.2	21
27	A novel communication infrastructure for emergency management: the In.Sy.Eme. vision. Wireless Communications and Mobile Computing, 2010, 10, 1672-1681.	1.2	20
28	An Energy-Aware Offloading Clustering Approach (EAOCA) in fog computing. , 2017, , .		20
29	An energy harvesting solution for computation offloading in Fog Computing networks. Computer Communications, 2020, 160, 577-587.	5.1	19
30	Overview of Distributed Machine Learning Techniques for 6G Networks. Algorithms, 2022, 15, 210.	2.1	19
31	A link adaptation strategy for QoS support in IEEE 802.11e-based WLANs. , 0, , .		17
32	Efficient Adaptive Modulation and Coding Techniques for WiMAX Systems. , 2008, , .		17
33	Statistical Modeling of Spectrum Sensing Energy in Multi-Hop Cognitive Radio Networks. IEEE Signal Processing Letters, 2015, 22, 356-360.	3.6	17
34	Machine Learning for Radio Resource Management in Multibeam GEO Satellite Systems. Electronics (Switzerland), 2022, 11, 992.	3.1	15
35	QoS provisioning in GEO satellite with onboard processing using predictor algorithms. IEEE Wireless Communications, 2005, 12, 21-27.	9.0	14
36	Bridging solutions for a heterogeneous WiMAX-WiFi scenario. Journal of Communications and Networks, 2006, 8, 369-377.	2.6	14

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37	Supporting Mobile Cloud Computing in Smart Cities via Randomized Algorithms. IEEE Systems Journal, 2018, 12, 1598-1609.	4.6	14
38	Mobile Edge Computing Partial Offloading Techniques for Mobile Urban Scenarios. , 2018, , .		14
39	Convolutional Neural Networks for Flexible Payload Management in VHTS Systems. IEEE Systems Journal, 2021, 15, 4675-4686.	4.6	14
40	Open-Source MQTT-Based End-to-End IoT System for Smart City Scenarios. Future Internet, 2022, 14, 57.	3.8	14
41	A cluster based computation offloading technique for mobile cloud computing in smart cities. , 2016, , .		13
42	Adaptive coding and modulation techniques for next generation hand-held mobile satellite communications. , 2013, , .		12
43	A network operator-biased approach for multi-service network function placement in a 5G network slicing architecture. Computer Networks, 2021, 201, 108598.	5.1	12
44	An Optimized Resource Allocation Scheme Based on a Multidimensional Multiple-Choice Approach with Reduced Complexity. , 2011, , .		11
45	Proposal of a cognitive based MAC protocol for M2M environments. , 2013, , .		11
46	An energy detector based radio environment mapping technique for cognitive satellite systems. , 2014, , .		11
47	Agile optimization for a real-time facility location problem in Internet of Vehicles networks. Networks, 0, , .	2.7	11
48	A Real-Time Energy-Saving Mechanism in Internet of Vehicles Systems. IEEE Access, 2021, 9, 157842-157858.	4.2	11
49	A MAC technique for CDMA based ad-hoc networks. , 0, , .		10
50	Impulse noise mitigation techniques for xDSL systems in a real environment. IEEE Transactions on Consumer Electronics, 2010, 56, 2106-2114.	3.6	10
51	A simheuristic algorithm for video streaming flows optimisation with QoS threshold modelled as a stochastic single-allocation <i>p</i>-hub median problem. Journal of Simulation, 2022, 16, 480-493.	1.5	10
52	Cooperative Multi-Agent Deep Reinforcement Learning for Resource Management in Full Flexible VHTS Systems. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 335-349.	7.9	10
53	Medium access control protocol for CDMA ad hoc networks. Electronics Letters, 2004, 40, 1131.	1.0	9
54	Cognitive hybrid satellite-terrestrial systems. , 2011, , .		9

#	ARTICLE	IF	CITATIONS
55	Adaptive coding and modulation techniques for mobile satellite communications: A state estimation approach. , 2012, , .		9
56	Cognitive Radio based Smart Grid Networks. , 2013, , .		9
57	A user-satisfaction based offloading technique for smart city applications. , 2014, , .		9
58	Perspectives for present and future CDMA-based communications systems. , 2005, 43, 95-100.		8
59	Novel link adaptation for TETRA cellular systems. International Journal of Communication Systems, 2009, 22, 483-501.	2.5	8
60	A Novel Cognitive Networking Scenario for IEEE 802.16 Networks. , 2009, , .		8
61	A Novel Routing Algorithm for Mobile Pervasive Computing. , 2010, , .		8
62	Spectrum awareness and exploitation for Cognitive Radio Satellite Communications. , 2015, , .		8
63	A control and data plane split approach for partial offloading in mobile fog networks. , 2018, , .		8
64	Towards a Novel Airâ€œGround Intelligent Platform for Vehicular Networks: Technologies, Scenarios, and Challenges. Smart Cities, 2021, 4, 1469-1495.	9.4	8
65	A Neural Network-Based Blind Multiuser Receiver for DS-CDMA Communication Systems. Wireless Personal Communications, 2003, 27, 195-213.	2.7	7
66	A priority based admission control strategy for WCDMA systems. , 0, , .		7
67	Adaptive scheduling algorithms for multimedia traffic in wireless OFDMA systems. Physical Communication, 2009, 2, 228-234.	2.1	7
68	Performance improvement techniques for the DVBâ€œRCS2 return link air interface. International Journal of Satellite Communications and Networking, 2015, 33, 371-390.	1.8	7
69	Smart meters density effects on the number of collectors in a Smart Grid. , 2015, , .		7
70	System capacity evaluation of DVB-S2X based medium earth orbit satellite network operating at Ka band. , 2016, , .		7
71	Extending the Usable Ka Band Spectrum for Satellite Communications: The CoRaSat Project. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 119-132.	0.3	7
72	Adaptive Modulation in Wireless OFDMA Systems with Finite State Modeling. , 2007, , .		6

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73	Efficient scheduling techniques for high data-rate wireless personal area networks. International Journal of Sensor Networks, 2007, 2, 128.	0.4	6
74	Cognitive Radio for Ka Band Satellite Communications. , 2014, , .		6
75	Adaptive network coding schemes for satellite communications. , 2016, , .		6
76	Stochastic Optimization of Cognitive Networks. IEEE Transactions on Green Communications and Networking, 2017, 1, 40-58.	5.5	6
77	Gateway selection and clustering in multi-interface wireless mesh networks considering network reliability and traffic. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3215.	3.9	6
78	A Cost Function Based Prioritization Method for Smart Grid Communication Network. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 16-24.	0.3	6
79	Supervised Machine Learning for Power and Bandwidth Management in VHTS Systems. , 2020, , .		6
80	Dynamic SIR based admission control algorithm for 3G wireless networks. , 0, , .		5
81	A neural network approach to MMSE receivers in a DS-CDMA multipath fading environment. IEEE Transactions on Communications, 2006, 54, 778-782.	7.8	5
82	An M2M cognitive MAC protocol for overlaid OFDMA environments. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2955.	3.9	5
83	On-Demand Service Deployment Strategies for Fog-as-a-Service Scenarios. IEEE Communications Letters, 2021, 25, 1500-1504.	4.1	5
84	A Fog Computing Orchestrator Architecture With Service Model Awareness. IEEE Transactions on Network and Service Management, 2022, 19, 2131-2147.	4.9	5
85	Zero-Energy Computation Offloading with Simultaneous Wireless Information and Power Transfer for Two-Hop 6G Networks. Energies, 2022, 15, 1632.	3.1	5
86	Multiuser interference mitigation in multipath fading channels using a neural network based blind receiver. , 0, , .		4
87	An efficient soft admission control technique for wireless communications. , 2003, , .		4
88	Adaptive Scheduling Algorithms for Multimedia Traffic in Wireless OFDMA Systems. , 2008, , .		4
89	The communication infrastructure for emergency management. , 2009, , .		4
90	Reliability of adaptive transmission in state-based channels for Land Mobile Satellite communications. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
91	Spectrum awareness techniques for 5G satellite communications. , 2015, , .		4
92	Physical layer aware adaptive network coding schemes for satellite communications. International Journal of Satellite Communications and Networking, 2017, 35, 537-549.	1.8	4
93	An Evolutionary-Based Algorithm for Smart-Living Applications Placement in Fog Networks. , 2019, , .		4
94	A MAC layer traffic-priority management technique in CDMA based ad-hoc networks. , 2005, , .		3
95	Multimedia traffic management at MAC layer in IEEE 802.15.3a personal area networks. , 0, , .		3
96	Proposal of a Fixed Communication System Sharing the Bandwidth of an Existing Personal Communication Network. IEEE Transactions on Vehicular Technology, 2008, 57, 180-187.	6.3	3
97	On the Ranging and Scheduling of Data Traffic in OFDMA Mobile Environments. , 2008, , .		3
98	Performance evaluation of the MAC protocol in IEEE 802.16 systems with data and VoIP traffic scheduling. Wireless Communications and Mobile Computing, 2009, 9, 35-46.	1.2	3
99	Wireless Communication Protocols for Distributed Computing Environments. , 2011, , .		3
100	Robust SC-FDMA subcarrier mapping for non-linear channels. , 2014, , .		3
101	Genetic inspired scheduling algorithm for cognitive satellite systems. , 2016, , .		3
102	A channel state-driven ACM algorithm for mobile satellite communications. International Journal of Satellite Communications and Networking, 2016, 34, 787-807.	1.8	3
103	Energy Efficient Adaptive Network Coding Schemes for Satellite Communications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 202-212.	0.3	3
104	Network Coding Channel Virtualization Schemes for Satellite Multicast Communications. , 2017, , .		3
105	Supervised machine learning for power and bandwidth management in very high throughput satellite systems. International Journal of Satellite Communications and Networking, 0, , .	1.8	3
106	DSP implementation of a neural network based blind multiuser receiver for DS-CDMA communication systems. , 0, , .		2
107	An advanced admission control algorithm based on SIR estimation for CDMA wireless systems. , 0, , .		2
108	DiffServ on-board satellite switching based on cellular neural networks. , 2004, , .		2

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109	Adaptive Modulation Algorithms based on Finite State Modeling in Wireless OFDMA Systems. , 2007, , .		2
110	Analysis and comparison of scheduling techniques for a BWA OFDMA mobile system. Wireless Communications and Mobile Computing, 2010, 10, 888-898.	1.2	2
111	An integrated communication-computing solution in emergency management. , 2010, , .		2
112	Analysis and design of a TETRA-DMO and IEEE 802.11 integrated network. , 2010, , .		2
113	A joint communication and computing resource management scheme for pervasive grid networks. Wireless Communications and Mobile Computing, 2013, 13, 1309-1323.	1.2	2
114	Analysis of a State Based Approach for Adaptive Coding and Modulation in Mobile Satellite Environments. , 2013, , .		2
115	Detection and Mitigation of Impulsive Interference on OFDM Signals Based on Spectrum Sensing, Blanking and Symbol Retransmission. Wireless Personal Communications, 2014, 77, 2631-2647.	2.7	2
116	Beam pattern allocation strategies for satellite cognitive radio systems. , 2015, , .		2
117	Performance Evaluation of DVB-S2X Based MEO Satellite Networks Operating at Q Band. , 2016, , .		2
118	Android-based Implementation of a Fog Computing and Networking Environment. , 2019, , .		2
119	On the Feasibility of Interference Estimation Techniques in Cognitive Satellite Environments with Impairments. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 133-146.	0.3	2
120	Using a Cost Function to Choose the Best Communication Technology for Fulfilling the Smart Meters Communication Requirements. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 33-42.	0.3	2
121	Advanced Technologies in Smart Cities. Energies, 2022, 15, 4764.	3.1	2
122	Assessment of local topographic maps obtained by ground-based SAR interferometry. , 0, , .		1
123	Performance evaluation of an efficient fixed microwave communication system to be added to an operating UMTS network. , 0, , .		1
124	An efficient diffserv switch for satellite communication systems based on cellular neural networks. , 2003, , .		1
125	A Bayesian technique for terrain mapping using multi-frequency ground based interferometric SAR systems. , 0, , .		1
126	Adaptive rate admission control for DS-CDMA cellular systems. , 0, , .		1



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127	Multimedia Traffic Management in IEEE 802.15.3a Wireless Personal Area Networks. , 2006, , .		1
128	Analysis of a Token Based MAC Protocol for OFDMA Cognitive Radio Environments. , 2013, , .		1
129	Feasibility of Energy Management Techniques for Ultra-low Power M2M SatCom Terminals. , 2018, , .		1
130	A reliable, secure, and energy efficient smart grid node allocation algorithm for heterogeneous network scenarios. International Journal of Communication Systems, 2018, 31, e3799.	2.5	1
131	Computation Offloading Decision Bounds in SWIPT-Based Fog Networks. , 2019, , .		1
132	Density-Aware Smart Grid Node Allocation in Heterogeneous Radio Access Technology Environments. , 0, , .		1
133	A Fully Reconfigurable Approach to Emergency Management. International Journal of Adaptive Resilient and Autonomic Systems, 2013, 4, 80-100.	0.3	1
134	Proposal of an advanced MMSE multiuser receiver for a DS-CDMA environment using neural networks. , 0, , .		0
135	A novel MAC technique for ad-hoc CDMA networks. , 0, , .		0
136	The Role of WiMAX Technology in Distributed Wide Area Monitoring Applications. , 0, , 129-143.		0
137	Downlink cross-layer scheduling strategies for long-term evolution and long-term evolution-advanced systems. Wireless Communications and Mobile Computing, 2015, 15, 1234-1246.	1.2	0
138	Workshop message: 5GB2P 2016. , 2016, , .		0
139	Special issue on "Cognitive Radio and Networks for Satellite and Space Communications" International Journal of Satellite Communications and Networking, 2017, 35, 377-378.	1.8	0
140	FOG-oriented Joint Computing and Networking: the GAUChO Project Vision. , 2018, , .		0
141	Cognitive Radio Techniques for M2M Environments. Advances in Wireless Technologies and Telecommunication Book Series, 2015, , 909-927.	0.4	0