Marco Levorato

List of Publications by Year
in descending order

87 papers	1,499 citations	489802 18 h-index	488211 31 g-index
88 all docs	88 docs citations	88 times ranked	1713 citing authors

#	Article	IF	Citations
1	Split Computing and Early Exiting for Deep Learning Applications: Survey and Research Challenges. ACM Computing Surveys, 2023, 55, 1-30.	16.1	30
2	Supervised Compression for Resource-Constrained Edge Computing Systems. , 2022, , .		26
3	Enabling Green Crowdsourced Social Delivery Networks in Urban Communities. Sensors, 2022, 22, 1541.	2.1	3
4	Optimal Edge Computing for Infrastructure-Assisted UAV Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 1782-1792.	3.9	18
5	SeReMAS: Self-Resilient Mobile Autonomous Systems Through Predictive Edge Computing. , 2021, , .		8
6	A Small World Graph Approach for an Efficient Indoor Positioning System. Sensors, 2021, 21, 5013.	2.1	2
7	Infrastructure-Assisted On-Driving Experience Sharing for Millimeter-Wave Connected Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 7307-7321.	3.9	13
8	Dynamic Distributed Computing for Infrastructure-Assisted Autonomous UAVs. , 2020, , .		6
9	Data-Driven Path Selection for Real-Time Video Streaming at the Network Edge. , 2020, , .		0
10	On the Feasibility of Infrastructure Assistance to Autonomous UAV Systems. , 2020, , .		2
11	Head Network Distillation: Splitting Distilled Deep Neural Networks for Resource-Constrained Edge Computing Systems. IEEE Access, 2020, 8, 212177-212193.	2.6	35
12	Data Driven Optimization of Energy Management in Residential Buildings with Energy Harvesting and Storage. Energies, 2020, 13, 2201.	1.6	5
13	Frequency-based Multi Task learning With Attention Mechanism for Fault Detection In Power Systems. , 2020, , .		5
14	Cross-Layer Analysis of RFID Systems with Correlated Shadowing and Random Radiation Efficiency. , 2019, , .		4
15	Harvest-Or-Access: Slotted ALOHA for Wireless Powered Communication Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 11394-11398.	3.9	13
16	Cloud-Assisted On-Sensor Observation Classification in Latency-Impeded IoT Systems. , 2019, , .		1
17	Auction-Based Charging Scheduling With Deep Learning Framework for Multi-Drone Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 4235-4248.	3.9	96
18	DNN-Assisted Sensor for Energy-Efficient ECG Monitoring. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
19	Extended Range Electric Vehicle With Driving Behavior Estimation in Energy Management. IEEE Transactions on Smart Grid, 2019, 10, 2959-2968.	6.2	78
20	Performance Analysis of End-to-End Security Schemes in Healthcare IoT. Procedia Computer Science, 2018, 130, 432-439.	1.2	38
21	Adaptive Wireless-Powered Relaying Schemes With Cooperative Jamming for Two-Hop Secure Communication. IEEE Internet of Things Journal, 2018, 5, 2793-2803.	5.5	44
22	Content-Aware Cognitive Interference Control for Urban IoT Systems. IEEE Transactions on Cognitive Communications and Networking, 2018, 4, 500-512.	4.9	9
23	Residential Consumer-Centric Demand Side Management. IEEE Transactions on Smart Grid, 2018, 9, 4513-4524.	6.2	51
24	Rising User Privacy Against Predictive Context Awareness Through Adversarial Information Injection. , 2018, , .		3
25	Optimal Computation Offloading in Edge-Assisted UAV Systems. , 2018, , .		17
26	Randomized Edge-Assisted On-Sensor Information Selection for Bandwidth-Constrained Systems. , 2018, , .		3
27	A Bayesian Game Theoretic Approach to Task Offloading in Edge and Cloud Computing. , 2018, , .		9
28	Robust Multi-Path Communications for UAVs in the Urban IoT. , 2018, , .		11
29	Optimal Aging–Aware Channel Access and Power Allocation for Battery–Powered Devices With Radio Frequency Energy Harvesting. IEEE Transactions on Communications, 2018, 66, 5773-5787.	4.9	5
30	eBPF-based content and computation-aware communication for real-time edge computing. , 2018, , .		13
31	Content-based interference management for video transmission in D2D communications underlaying LTE. , 2017, , .		5
32	Bandwidth-Aware Data Filtering in Edge-Assisted Wireless Sensor Systems. , 2017, , .		6
33	Cognitive Networking with Dynamic Traffic Classification and QoS Constraints. , 2017, , .		2
34	Edge-assisted content and computation-driven dynamic network selection for real-time services in the urban IoT. , 2017, , .		6
35	Intelligent data filtering in constrained IoT systems. , 2017, , .		0
36	Semantic compression for edge-assisted systems. , 2017, , .		2

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37	Content-Based Cognitive Interference Control for City Monitoring Applications in the Urban IoT. , 2016, , .		8
38	Distributed Optimization of Channel Access Strategies in Reactive Cognitive Networks. IEEE Transactions on Communications, 2016, , 1-1.	4.9	0
39	Optimal aging-aware channel access control for wireless networks with energy harvesting. , 2016, , .		3
40	Aging Aware Random Channel Access for Battery-Powered Wireless Networks. IEEE Wireless Communications Letters, 2016, 5, 176-179.	3.2	7
41	Modeling and control battery aging in energy harvesting systems. , 2015, , .		7
42	Network Estimation in Cognition-Empowered Wireless Networks. IEEE Transactions on Cognitive Communications and Networking, 2015, 1, 244-256.	4.9	1
43	A unified stochastic model for energy management in solar-powered embedded systems. , 2015, , .		6
44	Performance analysis of IEEE 802.15.3c-Based mmW wireless networks. , 2015, , .		1
45	Active Classification for POMDPs: A Kalman-Like State Estimator. IEEE Transactions on Signal Processing, 2014, 62, 6209-6224.	3.2	32
46	An algorithmic solution for computing circle intersection areas and its applications to wireless communications. Wireless Communications and Mobile Computing, 2014, 14, 1672-1690.	0.8	18
47	Distributed optimization of transmission strategies in reactive cognitive networks. , 2014, , .		0
48	Cognitive Networks with Dynamic User Classification for Tactical Communications. , 2013, , .		2
49	Cognitive Access Policies under a Primary ARQ Process via Forward-Backward Interference Cancellation. IEEE Journal on Selected Areas in Communications, 2013, 31, 2374-2386.	9.7	21
50	A POMDP framework for heterogeneous sensor selection in wireless body area networks. , 2012, , .		17
51	Reduced dimension policy iteration for wireless network control via multiscale analysis. , 2012, , .		14
52	Heterogeneous time-resource allocation in Wireless Body Area Networks for Green, maximum likelihood activity detection. , 2012, , .		2
53	A Learning Framework for Cognitive Interference Networks with Partial and Noisy Observations. IEEE Transactions on Wireless Communications, 2012, 11, 3101-3111.	6.1	22
54	On the Impact of Carrier Sense Based Medium Access Control on Cooperative Schemes in Wireless Ad Hoc Networks. IEEE Transactions on Communications, 2012, 60, 3032-3046.	4.9	3

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55	Fast anomaly detection in SmartGrids via sparse approximation theory. , 2012, , .		16
56	KNOWME: a case study in wireless body area sensor network design. IEEE Communications Magazine, 2012, 50, 116-125.	4.9	132
57	Cognitive Interference Management in Retransmission-Based Wireless Networks. IEEE Transactions on Information Theory, 2012, 58, 3023-3046.	1.5	60
58	Cognitive Interference Networks with Partial and Noisy Observations: A Learning Framework. , 2011, , .		4
59	Analysis of Non-Cooperative and Cooperative Type II Hybrid ARQ Protocols with AMC over Correlated Fading Channels. IEEE Transactions on Wireless Communications, 2011, 10, 877-889.	6.1	44
60	Optimal allocation of heterogeneous smart grid traffic to heterogeneous networks. , 2011, , .		18
61	A reinforcement learning optimization framework for cognitive interference networks. , 2011, , .		2
62	Integrated Cooperative Opportunistic Packet Forwarding and Distributed Error Control in MIMO Ad Hoc Networks. IEEE Transactions on Communications, 2011, 59, 2215-2227.	4.9	5
63	A Markov framework for error control techniques based on selective retransmission in video transmission over wireless channels. IEEE Journal on Selected Areas in Communications, 2010, 28, 488-500.	9.7	42
64	An analysis of cognitive networks for unslotted time and reactive users. , 2010, , .		3
65	Residential Demand Response Using Reinforcement Learning. , 2010, , .		176
66	Cooperation techniques for wireless systems from a networking perspective. IEEE Wireless Communications, 2010, 17, 89-96.	6.6	27
67	Learning Interference Strategies in Cognitive ARQ Networks. , 2010, , .		12
68	On the Effectiveness of Cooperation in Carrier Sense-Based Ad Hoc Networks. , 2009, , .		6
69	Steady state analysis of coded cooperative networks with HARQ protocol. IEEE Transactions on Communications, 2009, 57, 2391-2401.	4.9	9
70	Cognitive interference management in retransmission-based wireless networks. , 2009, , .		29
71	Cooperation and coordination in cognitive networks with packet retransmission. , 2009, , .		8
72	An algorithmic solution for computing circle intersection areas and its applications to wireless communications. , 2009, , .		11

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73	On the performance of ad hoc networks with multiuser detection, rate control and hybrid ARQ. IEEE Transactions on Wireless Communications, 2009, 8, 2938-2949.	6.1	6
74	On the channel statistics in Hybrid ARQ systems for correlated channels. , 2009, , .		5
75	Increasing power efficiency in transmitter diversity systems under error performance constraints. IEEE Transactions on Communications, 2008, 56, 2025-2029.	4.9	28
76	Cooperative spatial multiplexing for ad hoc networks with hybrid ARQ: system design and performance analysis. IEEE Transactions on Communications, 2008, 56, 1545-1555.	4.9	26
77	On the Design of Routing Protocols for MIMO Ad Hoc Networks under Uniform and Correlated Traffic. , 2008, , .		1
78	MAC/PHY Cross-Layer Design of MIMO Ad Hoc Networks with Layered Multiuser Detection. IEEE Transactions on Wireless Communications, 2008, 7, 4596-4607.	6.1	30
79	Recursive analysis of ad hoc networks with packet queueing, channel contention and hybrid ARQ. , 2008, , .		0
80	Cooperation in UMTS cellular networks: A practical perspective. , 2008, , .		2
81	On error control schemes for ad hoc networks with multiuser detection and rate control. , 2008, , .		0
82	Physical layer approximations for cross–layer performance analysis in MIMO-BLAST ad hoc networks. IEEE Transactions on Wireless Communications, 2007, 6, 4390-4400.	6.1	18
83	Distributed Cooperative Routing and Hybrid ARQ in MIMO-BLAST Ad Hoc Networks. , 2007, , .		11
84	Analysis of Outage Probability for Cooperative Networks with HARQ. , 2007, , .		19
85	WSN02-4: On the Performance of Access Strategies for MIMO Ad Hoc Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	7
86	Analysis of Cooperative Spatial Multiplexing for Ad Hoc Networks with Adaptive Hybrid ARQ. , 2006, , .		3
87	WLCp2-03: Analytical Investigation with Markov Models of Selective Repeat Type II Hybrid ARQ. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	0