

# Michele Rossi

## List of Publications by Year in descending order

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122  
papers

3,626  
citations

270111

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223390

49  
g-index

123  
all docs

123  
docs citations

123  
times ranked

3578  
citing authors

#	ARTICLE	IF	CITATIONS
1	SHARP: Environment and Person Independent Activity Recognition With Commodity IEEE 802.11 Access Points. IEEE Transactions on Mobile Computing, 2023, 22, 6160-6175.	3.9	12
2	Towards Sustainable Edge Computing Through Renewable Energy Resources and Online, Distributed and Predictive Scheduling. IEEE Transactions on Network and Service Management, 2022, 19, 306-321.	3.2	9
3	milliTRACE-IR: Contact Tracing and Temperature Screening via mmWave and Infrared Sensing. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 208-223.	7.3	8
4	Model-Free Radio Map Estimation in Massive MIMO Systems via Semi-Parametric Gaussian Regression. IEEE Wireless Communications Letters, 2022, 11, 473-477.	3.2	4
5	mmSCALE: Self-Calibration of mmWave Radar Networks from Human Movement Trajectories. , 2022, , .		5
6	A Review of Millimeter Wave Device-Based Localization and Device-Free Sensing Technologies and Applications. IEEE Communications Surveys and Tutorials, 2022, 24, 1708-1749.	24.8	24
7	Mobile Traffic Classification Through Physical Control Channel Fingerprinting: A Deep Learning Approach. IEEE Transactions on Network and Service Management, 2021, 18, 1946-1961.	3.2	17
8	Multiperson Continuous Tracking and Identification From mm-Wave Micro-Doppler Signatures. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2994-3009.	2.7	47
9	Real-Time People Tracking and Identification From Sparse mm-Wave Radar Point-Clouds. IEEE Access, 2021, 9, 78504-78520.	2.6	30
10	Mobility Aware and Dynamic Migration of MEC Services for the Internet of Vehicles. IEEE Transactions on Network and Service Management, 2021, 18, 570-584.	3.2	55
11	Necklace: An Architecture for Distributed and Robust Service Function Chains With Guarantees. IEEE Transactions on Network and Service Management, 2021, 18, 152-166.	3.2	8
12	Elastic and Predictive Allocation of Computing Tasks in Energy Harvesting IoT Edge Networks. IEEE Transactions on Network Science and Engineering, 2021, 8, 1772-1788.	4.1	6
13	Machine Learning Based Network Analysis Using Millimeter-Wave Narrow-Band Energy Traces. IEEE Transactions on Mobile Computing, 2020, 19, 1138-1155.	3.9	3
14	A Sharing Framework for Energy and Computing Resources in Multi-Operator Mobile Networks. IEEE Transactions on Network and Service Management, 2020, 17, 1140-1152.	3.2	10
15	Mobility and Blockage-Aware Communications in Millimeter-Wave Vehicular Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 13072-13086.	3.9	22
16	Elastic Function Chain Control for Edge Networks under Reconfiguration Delay and QoS Requirements. , 2020, , .		0
17	Adaptive Millimeter-Wave Communications Exploiting Mobility and Blockage Dynamics. , 2020, , .		2
18	Allocation of Computing Tasks In Distributed MEC Servers Co-Powered By Renewable Sources And The Power Grid. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
19	Distributed Learning Algorithms for Optimal Data Routing in IoT Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 179-195.	1.6	10
20	Smartphone Identification via Passive Traffic Fingerprinting: A Sequence-to-Sequence Learning Approach. IEEE Network, 2020, 34, 112-120.	4.9	15
21	On the Allocation of Computing Tasks under QoS Constraints in Hierarchical MEC Architectures. , 2019, , .		9
22	On the Effectiveness of Deep Representation Learning: The Atrial Fibrillation Case. Computer, 2019, 52, 18-29.	1.2	6
23	Online Power Management Strategies for Energy Harvesting Mobile Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 721-738.	3.5	10
24	Online Supervisory Control and Resource Management for Energy Harvesting BS Sites Empowered with Computation Capabilities. Wireless Communications and Mobile Computing, 2019, 2019, 1-17.	0.8	10
25	Prediction of Adverse Glycemic Events From Continuous Glucose Monitoring Signal. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 650-659.	3.9	52
26	Energy sustainable paradigms and methods for future mobile networks: A survey. Computer Communications, 2018, 119, 101-117.	3.1	47
27	IDNet: Smartphone-based gait recognition with convolutional neural networks. Pattern Recognition, 2018, 74, 25-37.	5.1	165
28	Beam Training and Data Transmission Optimization in Millimeter-Wave Vehicular Networks. , 2018, , .		10
29	Smart Energy Policies for Sustainable Mobile Networks via Forecasting and Adaptive Control. , 2018, , .		0
30	Online Resource Management in Energy Harvesting BS Sites through Prediction and Soft-Scaling of Computing Resources. , 2018, , .		8
31	Energy cooperation for sustainable IoT services within smart cities. , 2018, , .		9
32	EC-CENTRIC: An Energy- and Context-Centric Perspective on IoT Systems and Protocol Design. IEEE Access, 2017, 5, 6894-6908.	2.6	23
33	Boosting the Battery Life of Wearables for Health Monitoring Through the Compression of Biosignals. IEEE Internet of Things Journal, 2017, 4, 1647-1662.	5.5	67
34	Smart Grid for the Smart City. , 2017, , 241-263.		10
35	Wireless power transfer under the spotlight: Charging terminals amid dense cellular networks. , 2017, , .		4
36	Rate-distortion classification for self-tuning IoT networks. , 2017, , .		3

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37	SURF: Subject-Adaptive Unsupervised ECG Signal Compression for Wearable Fitness Monitors. IEEE Access, 2017, 5, 19517-19535.	2.6	16
38	A Bayesian forecasting and anomaly detection framework for vehicular monitoring networks. , 2017, , .		13
39	D-DASH: A Deep Q-Learning Framework for DASH Video Streaming. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 703-718.	4.9	123
40	Automatic Rate-Distortion Classification for the IoT: Towards Signal-Adaptive Network Protocols. , 2017, , .		3
41	Joint Optimal Pricing and Electrical Efficiency Enforcement for Rational Agents in Microgrids. IEEE Access, 2017, 5, 19782-19798.	2.6	7
42	Energy Cooperation for Sustainable Base Station Deployments: Principles and Algorithms. , 2017, , .		2
43	Softwarization of Mobile Network Functions towards Agile and Energy Efficient 5G Architectures: A Survey. Wireless Communications and Mobile Computing, 2017, 2017, 1-21.	0.8	16
44	Data Analytics for Smart Parking Applications. Sensors, 2016, 16, 1575.	2.1	17
45	Joint Optimization of Lossy Compression and Transport in Wireless Sensor Networks. , 2016, , .		5
46	Parallel multi-step ahead power demand forecasting through NAR neural networks. , 2016, , .		7
47	Biomedical signal compression with time- and subject-adaptive dictionary for wearable devices. , 2016, , .		13
48	Human authentication from ankle motion data using convolutional neural networks. , 2016, , .		16
49	On the Design of Temporal Compression Strategies for Energy Harvesting Sensor Networks. IEEE Transactions on Wireless Communications, 2016, 15, 1336-1352.	6.1	30
50	Covariogram-Based Compressive Sensing for Environmental Wireless Sensor Networks. IEEE Sensors Journal, 2016, 16, 1716-1729.	2.4	24
51	On the Interplay of Distributed Power Loss Reduction and Communication in Low Voltage Microgrids. IEEE Transactions on Industrial Informatics, 2016, 12, 322-337.	7.2	13
52	Evaluating the gap between compressive sensing and distributed source coding in WSN. , 2015, , .		6
53	When telecommunications networks meet energy grids: cellular networks with energy harvesting and trading capabilities. , 2015, 53, 117-123.		28
54	When order matters: Communication scheduling for current injection control in micro grids. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
55	Lightweight energy management of islanded operated microgrids for prosumer communities. , 2015, , .		6
56	Staying Alive. ACM Transactions on Sensor Networks, 2015, 11, 1-42.	2.3	12
57	Lightweight Lossy Compression of Biometric Patterns via Denoising Autoencoders. IEEE Signal Processing Letters, 2015, 22, 2304-2308.	2.1	53
58	Distributed Q-learning for energy harvesting Heterogeneous Networks. , 2015, , .		31
59	On the Performance of Lossy Compression Schemes for Energy Constrained Sensor Networking. ACM Transactions on Sensor Networks, 2014, 11, 1-34.	2.3	73
60	Dynamic Compression-Transmission for Energy-Harvesting Multihop Networks With Correlated Sources. IEEE/ACM Transactions on Networking, 2014, 22, 1729-1741.	2.6	47
61	Back pressure congestion control for CoAP/6LoWPAN networks. Ad Hoc Networks, 2014, 18, 71-84.	3.4	42
62	SolarStat: Modeling photovoltaic sources through stochastic Markov processes. , 2014, , .		47
63	IRIS: Integrated data gathering and interest dissemination system for wireless sensor networks. Ad Hoc Networks, 2013, 11, 654-671.	3.4	26
64	Low power link layer security for IoT: Implementation and performance analysis. , 2013, , .		25
65	Dimensioning Self-sufficient Networks of Energy Harvesting Embedded Devices. Lecture Notes in Computer Science, 2013, , 138-150.	1.0	2
66	Online policies for opportunistic virtual MISO routing in wireless ad hoc networks. , 2012, , .		0
67	Secure communication for smart IoT objects: Protocol stacks, use cases and practical examples. , 2012, , .		80
68	Sensing, Compression, and Recovery for WSNs: Sparse Signal Modeling and Monitoring Framework. IEEE Transactions on Wireless Communications, 2012, 11, 3447-3461.	6.1	156
69	McMAC: a power efficient, short preamble Multi-Channel Medium Access Control protocol for wireless sensor networks. , 2012, , .		3
70	Modeling and Generation of Space-Time Correlated Signals for Sensor Network Fields. , 2011, , .		30
71	SWAP Project: Beyond the State of the Art on Harvested Energy-Powered Wireless Sensors Platform Design. , 2011, , .		9
72	Spectrum leasing via cooperative opportunistic routing in distributed ad hoc networks: Optimal and heuristic policies. , 2011, , .		0

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73	On Optimal Cooperator Selection Policies for Multi-Hop Ad Hoc Networks. IEEE Transactions on Wireless Communications, 2011, 10, 506-518.	6.1	8
74	Web Services for the Internet of Things through CoAP and EXI. , 2011, , .		102
75	Miracle: The Multi-Interface Cross-Layer Extension of ns2. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	1.5	36
76	On interference-aware cooperation policies for wireless ad hoc networks. , 2010, , .		1
77	SYNAPSE++: Code Dissemination in Wireless Sensor Networks Using Fountain Codes. IEEE Transactions on Mobile Computing, 2010, 9, 1749-1765.	3.9	86
78	Architecture and protocols for the Internet of Things: A case study. , 2010, , .		134
79	Toward network coding-based protocols for data broadcasting in wireless Ad Hoc networks. IEEE Transactions on Wireless Communications, 2010, 9, 662-673.	6.1	48
80	WSN-Control: Signal reconstruction through Compressive Sensing in Wireless Sensor Networks. , 2010, , .		8
81	An integrated system for secure code distribution in Wireless Sensor Networks. , 2010, , .		6
82	Reprogramming over the Air and Sensor Island Management through SYNAPSE++. , 2009, , .		1
83	Heterogeneous routing in Ambient Networks. , 2009, , .		0
84	The "Wireless Sensor Networks for City-Wide Ambient Intelligence (WISE-WAI)" Project. Sensors, 2009, 9, 4056-4082.	2.1	37
85	A Bayesian analysis of Compressive Sensing data recovery in Wireless Sensor Networks. , 2009, , .		24
86	Cost- and Collision-Minimizing Forwarding Schemes for Wireless Sensor Networks: Design, Analysis and Experimental Validation. IEEE Transactions on Mobile Computing, 2009, 8, 322-337.	3.9	17
87	A Note on the Buffer Overlap Among Nodes Performing Random Network Coding in Wireless Ad Hoc Networks. , 2009, , .		0
88	On the interplay between routing and signal representation for Compressive Sensing in wireless sensor networks. , 2009, , .		98
89	Data Acquisition through Joint Compressive Sensing and Principal Component Analysis. , 2009, , .		59
90	Statistically assisted routing algorithms (SARA) for hop count based forwarding in wireless sensor networks. Wireless Networks, 2008, 14, 55-70.	2.0	30

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91	Energy and connectivity performance of routing groups in multi-radio multi-hop networks. <i>Wireless Communications and Mobile Computing</i> , 2008, 8, 327-342.	0.8	6
92	Improved Resource Management through User Aggregation in Heterogeneous Multiple Access Wireless Networks. <i>IEEE Transactions on Wireless Communications</i> , 2008, 7, 3329-3334.	6.1	4
93	Architectures for Seamless Handover Support in Heterogeneous Wireless Networks. , 2008, , .		2
94	Towards Optimal Broadcasting Policies for HARQ based on Fountain Codes in Underwater Networks. , 2008, , .		48
95	SYNAPSE: A Network Reprogramming Protocol for Wireless Sensor Networks Using Fountain Codes. , 2008, , .		55
96	Fountain codes and their application to broadcasting in underwater networks. , 2008, , .		28
97	Resilient Coding Algorithms for Sensor Network Data Persistence. , 2008, , 156-170.		16
98	Fountain reprogramming protocol (FRP). , 2007, , .		5
99	A Proactive Network Coding Strategy for Pervasive Wireless Networking. , 2007, , .		10
100	Mobility-Aided Routing in Multi-Hop Heterogeneous Networks with Group Mobility. , 2007, , .		2
101	Routing schemes in heterogeneous wireless networks based on access advertisement and backward utilities for QoS support [Quality of Service based Routing Algorithms for Heterogeneous Networks]. , 2007, 45, 67-73.		25
102	Integrated Cost-Based MAC and Routing Techniques for Hop Count Forwarding in Wireless Sensor Networks. <i>IEEE Transactions on Mobile Computing</i> , 2007, 6, 434-448.	3.9	23
103	The Design, Deployment, and Analysis of SignetLab: A Sensor Network Testbed and Interactive Management Tool. , 2007, , .		17
104	Network Coding Strategies for Data Persistence in Static and Mobile Sensor Networks. , 2007, , .		14
105	In-network aggregation techniques for wireless sensor networks: a survey. <i>IEEE Wireless Communications</i> , 2007, 14, 70-87.	6.6	575
106	ns2-MIRACLE: a Modular Framework for Multi-Technology and Cross-Layer Support in Network Simulator 2. , 2007, , .		76
107	Performance Improvements in Ad Hoc Networks Through Mobility Groups and Channel Diversity. , 2007, , .		0
108	SR ARQ delay statistics on N-state Markov channels with non-instantaneous feedback. <i>IEEE Transactions on Wireless Communications</i> , 2006, 5, 1526-1536.	6.1	30

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109	SR ARQ packet delay statistics on markov channels in the presence of variable arrival rate. IEEE Transactions on Wireless Communications, 2006, 5, 1639-1644.	6.1	41
110	Routing Strategies for Coverage Extension in Heterogeneous Wireless Networks. , 2006, , .		3
111	On the hop count statistics for randomly deployed wireless sensor networks. International Journal of Sensor Networks, 2006, 1, 89.	0.2	67
112	Challenges and new approaches for efficient data gathering and dissemination in pervasive wireless networks. , 2006, , .		5
113	WSN19-6: Integrated Data Delivery and Interest Dissemination Techniques for Wireless Sensor Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	5
114	On the delay statistics of SR ARQ over Markov channels with finite round-trip delay. IEEE Transactions on Wireless Communications, 2005, 4, 1858-1868.	6.1	30
115	Architectures and protocols for mobile computing applications: a reconfigurable approach. Computer Networks, 2004, 44, 545-567.	3.2	6
116	Accurate Analysis of TCP on Channels With Memory and Finite Round-Trip Delay. IEEE Transactions on Wireless Communications, 2004, 3, 627-640.	6.1	17
117	PETRA: Performance Enhancing Transport Architecture for Satellite Communications. IEEE Journal on Selected Areas in Communications, 2004, 22, 320-332.	9.7	48
118	Analysis and heuristics for the characterization of selective repeat ARQ delay statistics over wireless channels. IEEE Transactions on Vehicular Technology, 2003, 52, 1365-1377.	3.9	25
119	The RAMON Module: Architecture Framework and Performance Results. Lecture Notes in Computer Science, 2003, , 471-484.	1.0	9
120	Improving End-to-End Performance in Reconfigurable Networks through Dynamic Setting of TCP Parameters. Lecture Notes in Computer Science, 2003, , 513-524.	1.0	1
121	Throughput and energy performance of TCP on a wideband CDMA air interface. Wireless Communications and Mobile Computing, 2002, 2, 71-84.	0.8	26
122	Implementation and performance evaluation of wireless sensor networks for smart grid. , 0, , 324-350.		2