

# Dario Pompili

## List of Publications by Year in descending order

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114  
papers

6,916  
citations

377584

21  
h-index

232693

48  
g-index

117  
all docs

117  
docs citations

117  
times ranked

6960  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time In-Network Image Compression via Distributed Dictionary Learning. IEEE Transactions on Mobile Computing, 2023, 22, 472-486.	3.9	4
2	Signal Recovery Performance Analysis in Wireless Sensing With Rectangular-Type Analog Joint Source-Channel Coding. IEEE Transactions on Wireless Communications, 2023, 22, 734-745.	6.1	0
3	Don't Just BYOD, Bring-Your-Own-App Too! Protection via Virtual Micro Security Perimeters. IEEE Transactions on Mobile Computing, 2022, 21, 76-92.	3.9	1
4	OneLNK. , 2022, , .		0
5	Latency and quality-aware task offloading in multi-node next generation RANs. Computer Communications, 2022, 184, 107-117.	3.1	2
6	CollabLoc: Privacy-Preserving Multi-Modal Collaborative Mobile Phone Localization. IEEE Transactions on Mobile Computing, 2021, 20, 104-116.	3.9	10
7	Energy-Efficient Resource Allocation in C-RANs with Capacity-Limited Fronthaul. IEEE Transactions on Mobile Computing, 2021, 20, 473-487.	3.9	19
8	QLRan: Latency-Quality Tradeoffs and Task Offloading in Multi-node Next Generation RANs. , 2021, , .		2
9	Probabilistic Spatially-Divided Multiple Access in Underwater Acoustic Sparse Networks. IEEE Transactions on Mobile Computing, 2020, 19, 405-418.	3.9	17
10	Latency-aware Hybrid Edge Cloud Framework for Mobile Augmented Reality Applications. , 2020, , .		12
11	Multimodal data analysis of epileptic EEG and rs-fMRI via deep learning and edge computing. Artificial Intelligence in Medicine, 2020, 104, 101813.	3.8	55
12	Energy-Efficient Analog Sensing for Large-Scale and High-Density Persistent Wireless Monitoring. IEEE Internet of Things Journal, 2020, 7, 6778-6786.	5.5	12
13	On-Demand Video-Streaming Quality of Experience Maximization in Mobile Edge Computing. , 2019, , .		11
14	Demo Abstract: Mobile Augmented Reality Leveraging Cloud Radio Access Networks. , 2019, , .		1
15	ECO-UW IoT: Eco-friendly Reliable and Persistent Data Transmission in Underwater Internet of Things. , 2019, , .		8
16	MOSFET-based Ultra-low-power Realization of Analog Joint Source-Channel Coding for IoTs. , 2019, , .		0
17	In-Network Collaboration for CDMA-Based Reliable Underwater Acoustic Communications. IEEE Journal of Oceanic Engineering, 2019, 44, 881-894.	2.1	13
18	PhD Forum: Resource Allocation and Task Offloading in Cloud-Assisted Wireless Networks. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	Energy-Latency-Aware Task Offloading and Approximate Computing at the Mobile Edge. , 2019, , .		15
20	Joint Task Offloading and Resource Allocation for Multi-Server Mobile-Edge Computing Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 856-868.	3.9	660
21	Adaptive Bitrate Video Caching and Processing in Mobile-Edge Computing Networks. IEEE Transactions on Mobile Computing, 2019, 18, 1965-1978.	3.9	120
22	Compressed Underwater Acoustic Communications for Dynamic Interaction with Underwater Vehicles. , 2019, , .		1
23	Range-extending Optical Transceiver Structure for Underwater Vehicles and Robotics. , 2019, , .		6
24	Real-time Image Enhancement for Vision-based Autonomous Underwater Vehicle Navigation in Murky Waters. , 2019, , .		3
25	UW-MARL. , 2019, , .		10
26	Model-Based Thermal Anomaly Detection in Cloud Datacenters Using Thermal Imaging. IEEE Transactions on Cloud Computing, 2018, 6, 330-343.	3.1	15
27	Improved Circuit Design of Analog Joint Source Channel Coding for Low-Power and Low-Complexity Wireless Sensors. IEEE Sensors Journal, 2018, 18, 281-289.	2.4	13
28	Joint virtual edge-clustering and spectrum allocation scheme for uplink interference mitigation in C-RAN. Ad Hoc Networks, 2018, 72, 91-104.	3.4	10
29	Random ensemble learning for EEG classification. Artificial Intelligence in Medicine, 2018, 84, 146-158.	3.8	39
30	Cooperative Hierarchical Caching and Request Scheduling in a Cloud Radio Access Network. IEEE Transactions on Mobile Computing, 2018, 17, 2729-2743.	3.9	59
31	UNISec: Inspection, Separation, and Classification of Underwater Acoustic Noise Point Sources. IEEE Journal of Oceanic Engineering, 2018, 43, 777-791.	2.1	21
32	Light-Weight Object Detection and Decision Making via Approximate Computing in Resource-Constrained Mobile Robots. , 2018, , .		5
33	Robust Distributed Dictionary Learning for In-Network Image Compression. , 2018, , .		2
34	Cloud-BSS: Joint intra- and inter-Cluster interference cancellation in uplink 5G cellular networks. Computer Networks, 2018, 147, 180-190.	3.2	2
35	Fronthaul-Aware Resource Allocation for Energy Efficiency Maximization in C-RANs. , 2018, , .		8
36	Energy-efficient Wireless Analog Sensing for Persistent Underwater Environmental Monitoring. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
37	Collaborative Hybrid ARQ for CDMA-based Reliable Underwater Acoustic Communications. , 2018, , .		7
38	Robust orchestration of concurrent application workflows in mobile device clouds. Journal of Parallel and Distributed Computing, 2018, 120, 101-114.	2.7	6
39	Bandwidth and Energy-Aware Resource Allocation for Cloud Radio Access Networks. IEEE Transactions on Wireless Communications, 2018, 17, 6487-6500.	6.1	34
40	Proactive Thermal-Aware Resource Management in Virtualized HPC Cloud Datacenters. IEEE Transactions on Cloud Computing, 2017, 5, 234-248.	3.1	26
41	Collaborative Mobile Edge Computing in 5G Networks: New Paradigms, Scenarios, and Challenges. , 2017, 55, 54-61.		669
42	Argus: Smartphone-enabled human cooperation for disaster situational awareness via MARL. , 2017, , .		8
43	Collaborative multi-bitrate video caching and processing in Mobile-Edge Computing networks. , 2017, , .		118
44	Energy-efficient analog sensing for large-scale, high-density persistent wireless monitoring. , 2017, , .		13
45	Exploiting the untapped potential of mobile distributed computing via approximation. Pervasive and Mobile Computing, 2017, 38, 381-395.	2.1	13
46	Dynamic Radio Cooperation for User-Centric Cloud-RAN With Computing Resource Sharing. IEEE Transactions on Wireless Communications, 2017, 16, 2379-2393.	6.1	42
47	Optimized Deep Learning for EEG Big Data and Seizure Prediction BCI via Internet of Things. IEEE Transactions on Big Data, 2017, 3, 392-404.	4.4	122
48	Dynamic joint processing: Achieving high spectral efficiency in uplink 5G cellular networks. Computer Networks, 2017, 126, 44-56.	3.2	18
49	Elastic-Net: Boosting Energy Efficiency and Resource Utilization in 5G C-RANs. , 2017, , .		4
50	Underwater Acoustic Carrier Aggregation: Achievable Rate and Energy-Efficiency Evaluation. IEEE Journal of Oceanic Engineering, 2017, 42, 1035-1048.	2.1	16
51	Mobee: Mobility-Aware Energy-Efficient Coded Caching in Cloud Radio Access Networks. , 2017, , .		14
52	Analog Signal Compression and Multiplexing Techniques for Healthcare Internet of Things. , 2017, , .		12
53	CollabLoc: Privacy-Preserving Multi-Modal Localization via Collaborative Information Fusion. , 2017, , .		9
54	Understanding the Computational Requirements of Virtualized Baseband Units Using a Programmable Cloud Radio Access Network Testbed. , 2017, , .		29

#	ARTICLE	IF	CITATIONS
55	Towards low-power wearable wireless sensors for molecular biomarker and physiological signal monitoring. , 2017, , .		10
56	Cloud-based deep learning of big EEG data for epileptic seizure prediction. , 2016, , .		65
57	Comparative performance evaluation of automated segmentation methods of hippocampus from magnetic resonance images of temporal lobe epilepsy patients. Medical Physics, 2016, 43, 538-553.	1.6	33
58	QuaRo: A Queue-Aware Robust Coordinated Transmission Strategy for Downlink C-RANs. , 2016, , .		12
59	Octopus: A Cooperative Hierarchical Caching Strategy for Cloud Radio Access Networks. , 2016, , .		54
60	A Multi-Objective Approach to Real-Time In-Situ Processing of Mobile-Application Workflows. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 3116-3130.	4.0	7
61	MobiDiC: Exploiting the untapped potential of mobile distributed computing via approximation. , 2016, , .		10
62	Argus: Smartphone-Enabled Human Cooperation via Multi-agent Reinforcement Learning for Disaster Situational Awareness. , 2016, , .		14
63	Energy-efficient OFDM bandwidth selection for underwater acoustic carrier aggregation systems. , 2016, , .		6
64	Real-Time Epileptic Seizure Detection from EEG Signals via Random Subspace Ensemble Learning. , 2016, , .		36
65	Maestro: Orchestrating Concurrent Application Workflows in Mobile Device Clouds. , 2016, , .		14
66	Secure mobile technologies for proactive critical infrastructure situational awareness. , 2016, , .		2
67	Low-power all-analog circuit for rectangular-type analog joint source channel coding. , 2016, , .		11
68	Elastic resource utilization framework for high capacity and energy efficiency in cloud RAN. , 2016, 54, 26-32.		99
69	uwMIMO-HARQ. , 2015, , .		11
70	AMMCA. , 2015, , .		11
71	DJP: Dynamic Joint Processing for Interference Cancellation in Cloud Radio Access Networks. , 2015, , .		6
72	Interference Cancellation in Multiuser Acoustic Underwater Networks Using Probabilistic SDMA. , 2015, , .		8

#	ARTICLE	IF	CITATIONS
73	Cloud-CFFR: Coordinated Fractional Frequency Reuse in Cloud Radio Access Network (C-RAN). , 2015, , .		5
74	Dynamic Radio Cooperation for Downlink Cloud-RANs with Computing Resource Sharing. , 2015, , .		8
75	Dynamic Provisioning for High Energy Efficiency and Resource Utilization in Cloud RANs. , 2015, , .		1
76	Distributed Data-Centric Adaptive Sampling for Cyber-Physical Systems. ACM Transactions on Autonomous and Adaptive Systems, 2015, 9, 1-27.	0.4	4
77	Dynamic provisioning and allocation in Cloud Radio Access Networks (C-RANs). Ad Hoc Networks, 2015, 30, 128-143.	3.4	47
78	Uncertainty-Aware Autonomic Resource Provisioning for Mobile Cloud Computing. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2363-2372.	4.0	49
79	Laboratory Validation of Inertial Body Sensors to Detect Cigarette Smoking Arm Movements. Electronics (Switzerland), 2014, 3, 87-110.	1.8	24
80	&#x0022;Cocktail Party in the Cloud&#x0022;; Blind Source Separation for Co-Operative Cellular Communication in Cloud RAN. , 2014, , .		7
81	Towards A Reconfigurable Cyber Physical System. , 2014, , .		2
82	A QoS-Aware Underwater Optimization Framework for Inter-Vehicle Communication using Acoustic Directional Transducers. IEEE Transactions on Wireless Communications, 2014, 13, 2490-2504.	6.1	13
83	Reliable geocasting for random-access underwater acoustic sensor networks. Ad Hoc Networks, 2014, 21, 134-146.	3.4	8
84	Thermal camera networks for large datacenters using real-time thermal monitoring mechanism. Journal of Supercomputing, 2013, 64, 383-408.	2.4	7
85	Enabling Real-Time In-Situ Processing of Ubiquitous Mobile-Application Workflows. , 2013, , .		8
86	Model-Based Thermal Anomaly Detection in Cloud Datacenters. , 2013, , .		7
87	Distributed Computing Framework for Underwater Acoustic Sensor Networks. , 2013, , .		2
88	Learning-based framework for policy-aware cognitive radio emergency networking. , 2013, , .		0
89	VMAP: Proactive thermal-aware virtual machine allocation in HPC cloud datacenters. , 2012, , .		28
90	Thermal anomaly detection in datacenters. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 2104-2117.	1.1	2

#	ARTICLE	IF	CITATIONS
91	Research challenges in computation, communication, and context awareness for ubiquitous healthcare. , 2012, 50, 92-99.		105
92	Uncertainty-aware localization solution for under-ice autonomous underwater vehicles. , 2012, , .		4
93	Human motion recognition using a wireless sensor-based wearable system. Personal and Ubiquitous Computing, 2012, 16, 897-910.	1.9	113
94	Energy-Efficient Thermal-Aware Autonomic Management of Virtualized HPC Cloud Infrastructure. Journal of Grid Computing, 2012, 10, 447-473.	2.5	61
95	Mobile grid computing for data- and patient-centric ubiquitous healthcare. , 2012, , .		25
96	Leveraging mobile grid computing for Interference Alignment and Cancelation. , 2012, , .		0
97	Proactive thermal management in green datacenters. Journal of Supercomputing, 2012, 60, 165-195.	2.4	47
98	QUO VADIS: QoS-aware underwater optimization framework for inter-vehicle communication using acoustic directional transducers. , 2011, , .		15
99	On the impact of neighborhood discovery on geographical routing in wireless sensor networks. , 2011, , .		1
100	Reliable geocasting solution for underwater acoustic sensor networks. , 2011, , .		4
101	Transmission of Patient Vital Signs Using Wireless Body Area Networks. Mobile Networks and Applications, 2011, 16, 663-682.	2.2	31
102	Bio-inspired communications for coordination among autonomous underwater vehicles. , 2010, , .		2
103	Distributed Routing Algorithms for Underwater Acoustic Sensor Networks. IEEE Transactions on Wireless Communications, 2010, 9, 2934-2944.	6.1	94
104	Towards energy-efficient reactive thermal management in instrumented datacenters. , 2010, , .		14
105	Trajectory-Aware Communication Solution for Underwater Gliders Using WHOI Micro-Modems. , 2010, , .		26
106	A Testbed for Performance Evaluation of Underwater Vehicle Team Formation and Steering Algorithms. , 2010, , .		5
107	Movement Recognition Using Body Area Networks. , 2009, , .		4
108	A demand-assignment algorithm based on a Markov modulated chain prediction model for satellite bandwidth allocation. Wireless Networks, 2009, 15, 999-1012.	2.0	1

#	ARTICLE	IF	CITATIONS
109	Overview of networking protocols for underwater wireless communications. , 2009, 47, 97-102.		331
110	A CDMA-based Medium Access Control for UnderWater Acoustic Sensor Networks. IEEE Transactions on Wireless Communications, 2009, 8, 1899-1909.	6.1	228
111	A closed-loop fuzzy traffic controller for fair bandwidth sharing. ACM SIGBED Review, 2008, 5, 1-6.	1.8	1
112	A cross-layer communication solution for multimedia applications in underwater acoustic sensor networks. , 2008, , .		30
113	Communication and Coordination in Wireless Sensor and Actor Networks. IEEE Transactions on Mobile Computing, 2007, 6, 1116-1129.	3.9	183
114	Underwater acoustic sensor networks: research challenges. Ad Hoc Networks, 2005, 3, 257-279.	3.4	2,620