Paolo Casari

List of Publications by Year in Descending Order

116 papers	1,842 citations	22 h-index	38 g-index
126 ext. papers	2,367 ext. citations	6.2 avg, IF	5.04 L-index

#	Paper	IF	Citations
116	A Review of Millimeter Wave Device-based Localization and Device-free Sensing Technologies and Applications. *IEEE Communications Surveys and Tutorials*, **2022**, 1-1	37.1	1
115	Classification of Underwater Fish Images and Videos via Very Small Convolutional Neural Networks. *Journal of Marine Science and Engineering*, **2022**, 10, 736	2.4	1
114	Realistic Aspects of Simulation Models for Fake News Epidemics over Social Networks. *Future Internet*, **2021**, 13, 76	3.3	3
113	SQLR: Short-Term Memory Q-Learning for Elastic Provisioning. *IEEE Transactions on Network and Service Management*, **2021**, 18, 1850-1869	4.8	0
112	. *IEEE Journal of Oceanic Engineering*, **2021**, 46, 307-318	3.3	2
111	Evaluating a Digital Twin of an IoT Resource Slice: An Emulation Study Using the ELIoT Platform. *IEEE Networking Letters*, **2021**, 3, 147-151	2.8	1
110	Application Optimisation: Workload Prediction and Autonomous Autoscaling of Distributed Cloud Applications. *Palgrave Studies in Digital Business & Enabling Technologies*, **2020**, 51-68	0.5	
109	RECAP Data Acquisition and Analytics Methodology. *Palgrave Studies in Digital Business & Enabling Technologies*, **2020**, 27-50	0.5	
108	Underwater Localization via Wideband Direction-of-Arrival Estimation Using Acoustic Arrays of Arbitrary Shape. *Sensors*, **2020**, 20,	3.8	4
107	. *IEEE Access*, **2019**, 7, 99978-99987	3.5	11
106	Machine Learning Methods for Reliable Resource Provisioning in Edge-Cloud Computing. *ACM Computing Surveys*, **2019**, 52, 1-39	13.4	53
105	LEAP: Location Estimation and Predictive Handover with Consumer-Grade mmWave Devices **2019**,		6
104	IEEE Access Special Section Editorial: Underwater Wireless Communications and Networking. *IEEE Access*, **2019**, 7, 52288-52294	3.5	4
103	Single- and Multiple-Access Point Indoor Localization for Millimeter-Wave Networks. *IEEE Transactions on Wireless Communications*, **2019**, 18, 1927-1942	9.6	25
102	Scaling Millimeter-Wave Networks to Dense Deployments and Dynamic Environments. *Proceedings of the IEEE*, **2019**, 107, 732-745	14.3	15
101	Optimal Transmission Scheduling in Small Multimodal Underwater Networks. *IEEE Wireless Communications Letters*, **2019**, 8, 368-371	5.9	6
100	Underwater Direction of Arrival Estimation using Wideband Arrays of Opportunity **2019**,		1

99	Bathymetry-aided underwater acoustic localization using a single passive receiver. *Journal of the Acoustical Society of America*, **2019**, 146, 4774	2.2	2
98	Cooperative Authentication in Underwater Acoustic Sensor Networks. *IEEE Transactions on Wireless Communications*, **2019**, 18, 954-968	9.6	14
97	Li-Tect: 3-D Monitoring and Shape Detection Using Visible Light Sensors. *IEEE Sensors Journal*, **2019**, 19, 940-949	4	9
96	Revisiting Source Routing for Underwater Networking: The SUN Protocol. *IEEE Access*, **2018**, 6, 1525-1541	3.5	9
95	. *IEEE Transactions on Wireless Communications*, **2018**, 17, 1738-1754	9.6	23
94	Underwater LiDAR Signal Processing for Enhanced Detection and Localization of Marine Life **2018**,		3
93	Indoor Localization Using Commercial Off-The-Shelf 60 GHz Access Points **2018**,		17
92	Underwater Delay-Tolerant Routing via Probabilistic Spraying. *IEEE Access*, **2018**, 6, 77767-77784	3.5	4
91	Communication-Driven Localization and Mapping for Millimeter Wave Networks **2018**,		16
90	Controlled Flooding of Fountain Codes. *IEEE Transactions on Wireless Communications*, **2017**, 16, 4698-4710	9.6	1
89	Leveraging the Near-Far Effect for Improved Spatial-Reuse Scheduling in Underwater Acoustic Networks. *IEEE Transactions on Wireless Communications*, **2017**, 16, 1480-1493	9.6	9
88	Reliable capacity provisioning for distributed cloud/edge/fog computing applications **2017**,		33
87	On the Relationship Between the Underwater Acoustic and Optical Channels. *IEEE Transactions on Wireless Communications*, **2017**, 16, 8037-8051	9.6	18
86	Software-Defined Underwater Acoustic Modems: Historical Review and the NILUS Approach. *IEEE Journal of Oceanic Engineering*, **2017**, 42, 722-737	3.3	51
85	JADE: Zero-knowledge device localization and environment mapping for millimeter wave systems **2017**,		35
84	Full Reconfiguration of Underwater Acoustic Networks through Low-Level Physical Layer Access **2017**,		1
83	Multimodal Underwater Networks **2017**,		20
82	Routing in multi-modal underwater networks: A throughput-optimal approach **2017**,		3

81	Anchorless underwater acoustic localization **2017**,		5
80	Implementation of a multi-modal acoustic-optical underwater network protocol stack **2016**,		11
79	Design and evaluation of a low-cost acoustic chamber for underwater networking experiments **2016**,		2
78	A TDMA-based MAC protocol exploiting the near-far effect in underwater acoustic networks **2016**,		6
77	Lightweight Indoor Localization for 60-GHz Millimeter Wave Systems **2016**,		28
76	A Handshake-Based Protocol Exploiting the Near-Far Effect in Underwater Acoustic Networks. *IEEE Wireless Communications Letters*, **2016**, 5, 308-311	5.9	10
75	The DESERT underwater framework v2: Improved capabilities and extension tools **2016**,		19
74	On the accuracy of passive multipath-aided underwater range estimation **2016**,		5
73	Modeling the throughput of 1-persistent CSMA in underwater networks **2015**,		1
72	Simulation of multimodal optical and acoustic communications in underwater networks **2015**,		12
71	Cross-layer analysis via Markov models of incremental redundancy hybrid ARQ over underwater acoustic channels. *Ad Hoc Networks*, **2015**, 34, 62-74	4.8	10
70	Simulation of a Multimodal Wireless Remote Control System for Underwater Vehicles **2015**,		8
69	ALBA-R: Load-Balancing Geographic Routing Around Connectivity Holes in Wireless Sensor Networks. *IEEE Transactions on Parallel and Distributed Systems*, **2014**, 25, 529-539	3.7	61
68	RECORDS: A remote control framework for underwater networks **2014**,		9
67	Multipath Routing With Limited Cross-Path Interference in Underwater Networks. *IEEE Wireless Communications Letters*, **2014**, 3, 465-468	5.9	8
66	Software-defined open-architecture modems: Historical review and the NILUS approach **2014**,		6
65	. *IEEE Network*, **2014**, 28, 38-46	11.4	28
64	**2014**,		4

63	On the feasibility of fully wireless remote control for underwater vehicles **2014**,		10
62	MACA-APT **2014**,		1
61	Testing network protocols via the DESERT underwater framework: The CommsNetS13 experience **2014**,		2
60	A detailed analytical and simulation study of geographic random forwarding. *Wireless Communications and Mobile Computing*, **2013**, 13, 916-934	1.9	4
59	The Underwater Selective Repeat Error Control Protocol for Multiuser Acoustic Networks: Design and Parameter Optimization. *IEEE Transactions on Wireless Communications*, **2013**, 12, 4866-4877	9.6	16
58	The Throughput of Underwater Networks: Analysis and Validation using a Ray Tracing Simulator. *IEEE Transactions on Wireless Communications*, **2013**, 12, 1108-1117	9.6	10
57	Performance evaluation of forwarding protocols for the RACUN network **2013**,		17
56	Impact of Time-Varying Underwater Acoustic Channels on the Performance of Routing Protocols. *IEEE Journal of Oceanic Engineering*, **2013**, 38, 772-784	3.3	16
55	Embedded systems for prototyping underwater acoustic networks: The DESERT Underwater libraries on board the PandaBoard and NetDCU **2012**,		3
54	Data upload from a static Underwater network to an AUV: Polling or random access? **2012**,		17
53	DESERT Underwater: An NS-Miracle-based framework to design, simulate, emulate and realize test-beds for underwater network protocols **2012**,		56
52	Field experiments for Dynamic Source Routing: S2C EvoLogics modems run the SUN protocol using the DESERT Underwater libraries **2012**,		25
51	Packet error recovery via multipath routing and Reed-Solomon codes in underwater networks **2012** ,		5
50	Coastal patrol and surveillance networks using AUVs and delay-tolerant networking **2012**,		4
49	The internet of energy: a web-enabled smart grid system. *IEEE Network*, **2012**, 26, 39-45	11.4	158
48	Routing **2012**, 63-83		
47	**2012**,		4
46	Underwater Communications and Networking. *Journal of Electrical and Computer Engineering*, **2012**, 2012, 1-2	1.9	1

45	Medium Access Control **2012**, 19-48		1
44	Logical Link Layer Topics **2012**, 49-61		
43	On the impact of the environment on MAC and routing in shallow water scenarios **2011**,		8
42	The NAUTILUS project: Physical parameters, architectures and network scenarios **2011**,		2
41	Protocol design issues in underwater acoustic networks. *Computer Communications*, **2011**, 34, 2013-2025	5.1	107
40	CLAM – Collaborative embedded networks for submarine surveillance: An overview **2011**,		10
39	On the performance of delay – Tolerant routing protocols in underwater networks **2011**,		6
38	On ARQ strategies over random access protocols in underwater acoustic networks **2011**,		14
37	A study on the SPIHT image coding technique for underwater acoustic communications **2011**,		6
36	On the performance of unsynchronized distributed MAC protocols in deep water acoustic networks **2011**,		3
35	Jamming-resistant multi-path routing for reliable intruder detection in underwater networks **2011**,		18
34	Throughput and Transmission Capacity of Underwater Networks with Randomly Distributed Nodes **2011**,		2
33	On the Impact of Channel Estimation Errors on MAC Protocols for MIMO Ad Hoc Networks. *IEEE Transactions on Wireless Communications*, **2010**, 9, 3290-3300	9.6	3
32	A study of incremental redundancy hybrid ARQ over Markov channel models derived from experimental data **2010**,		17
31	The Deployment of a Smart Monitoring System Using Wireless Sensor and Actuator Networks **2010**,		48
30	Architecture and protocols for the Internet of Things: A case study **2010**,		104
29	On the impact of transmit waveforms on channel estimation inaccuracies in distributed MIMO ad hoc networks **2010**,		2
28	Performance evaluation of random and handshake-based channel access in collaborative mobile underwater networks **2010**,		2

27	Experimental study of the space-time properties of acoustic channels for underwater communications **2010**,		22
26	On modeling JANUS packet errors over a shallow water acoustic channel using Markov and hidden Markov models **2010**,		7
25	TinyNET: a tiny network framework for TinyOS: description, implementation, and experimentation. *Wireless Communications and Mobile Computing*, **2010**, 10, 101-114	1.9	2
24	World ocean simulation system (WOSS) **2009**,		74
23	The "Wireless Sensor Networks for City-Wide Ambient Intelligence (WISE-WAI)" Project. *Sensors*, **2009**, 9, 4056-82	3.8	27
22	**2009**,		1
21	**2009**,		5
20	A performance comparison of MAC protocols for underwater networks using a realistic channel simulator **2009**,		4
19	Energy-Efficient Routing Schemes for Underwater Acoustic Networks. *IEEE Journal on Selected Areas in Communications*, **2008**, 26, 1754-1766	14.2	138
18	On the Design of Routing Protocols for MIMO Ad Hoc Networks under Uniform and Correlated Traffic **2008**,		1
17	MAC/PHY Cross-Layer Design of MIMO Ad Hoc Networks with Layered Multiuser Detection. *IEEE Transactions on Wireless Communications*, **2008**, 7, 4596-4607	9.6	17
16	Effective heuristics for flexible spectrum access in underwater acoustic networks **2008**,		7
15	Towards Optimal Broadcasting Policies for HARQ based on Fountain Codes in Underwater Networks **2008**,		33
14	A comparison between the Tone-Lohi and Slotted FAMA MAC protocols for underwater networks **2008**,		12
13	On the Statistics and MAC Implications of Channel Estimation Errors in MIMO Ad Hoc Networks **2008**,		4
12	Fountain codes and their application to broadcasting in underwater networks **2008**,		18
11	Physical layer approximations for cross-layer performance analysis in MIMO-BLAST ad hoc networks. *IEEE Transactions on Wireless Communications*, **2007**, 6, 4390-4400	9.6	13
10	Exploiting the Bandwidth-Distance Relationship in Underwater Acoustic Networks **2007**,		10

9	A Detailed Simulation Study of the UWAN-MAC Protocol for Underwater Acoustic Networks **2007**,	9
8	Energy-efficient reliable broadcast in underwater acoustic networks **2007**,	28
7	A Comparison of Multiple Access Techniques in Clustered Underwater Acoustic Networks **2007**,	10
6	An Approximate Approach for Layered Space–Time Multiuser Detection Performance and its Application to MIMO Ad Hoc Networks **2006**,	5
5	Testbed implementation and refinement of a range-based localization algorithm for wireless sensor networks **2006**,	22
4	DSMA **2006**,	8
3	WSN02-4: On the Performance of Access Strategies for MIMO Ad Hoc Networks. *IEEE Global Telecommunications Conference (GLOBECOM)*, **2006**,	6
2	ALBA: An Adaptive Load - Balanced Algorithm for Geographic Forwarding in Wireless Sensor Networks **2006**,	15
1	Implementation and performance evaluation of wireless sensor networks for smart grid324-350	1