

Paolo Casari

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The internet of energy: a web-enabled smart grid system. <i>IEEE Network</i> , 2012 , 26, 39-45	11.4	158
115	Energy-Efficient Routing Schemes for Underwater Acoustic Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 1754-1766	14.2	138
114	Protocol design issues in underwater acoustic networks. <i>Computer Communications</i> , 2011 , 34, 2013-2025.1	5.1	107
113	Architecture and protocols for the Internet of Things: A case study 2010 ,		104
112	World ocean simulation system (WOSS) 2009 ,		74
111	ALBA-R: Load-Balancing Geographic Routing Around Connectivity Holes in Wireless Sensor Networks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2014 , 25, 529-539	3.7	61
110	DESERT Underwater: An NS-Miracle-based framework to design, simulate, emulate and realize test-beds for underwater network protocols 2012 ,		56
109	Machine Learning Methods for Reliable Resource Provisioning in Edge-Cloud Computing. <i>ACM Computing Surveys</i> , 2019 , 52, 1-39	13.4	53
108	Software-Defined Underwater Acoustic Modems: Historical Review and the NILUS Approach. <i>IEEE Journal of Oceanic Engineering</i> , 2017 , 42, 722-737	3.3	51
107	The Deployment of a Smart Monitoring System Using Wireless Sensor and Actuator Networks 2010 ,		48
106	JADE: Zero-knowledge device localization and environment mapping for millimeter wave systems 2017 ,		35
105	Reliable capacity provisioning for distributed cloud/edge/fog computing applications 2017 ,		33
104	Towards Optimal Broadcasting Policies for HARQ based on Fountain Codes in Underwater Networks 2008 ,		33
103	. <i>IEEE Network</i> , 2014 , 28, 38-46	11.4	28
102	Energy-efficient reliable broadcast in underwater acoustic networks 2007 ,		28
101	Lightweight Indoor Localization for 60-GHz Millimeter Wave Systems 2016 ,		28
100	The "Wireless Sensor Networks for City-Wide Ambient Intelligence (WISE-WAI)" Project. <i>Sensors</i> , 2009 , 9, 4056-82	3.8	27

99	Single- and Multiple-Access Point Indoor Localization for Millimeter-Wave Networks. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 1927-1942	9.6	25
98	Field experiments for Dynamic Source Routing: S2C EvoLogics modems run the SUN protocol using the DESERT Underwater libraries 2012 ,		25
97	. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 1738-1754	9.6	23
96	Experimental study of the space-time properties of acoustic channels for underwater communications 2010 ,		22
95	Testbed implementation and refinement of a range-based localization algorithm for wireless sensor networks 2006 ,		22
94	Multimodal Underwater Networks 2017 ,		20
93	The DESERT underwater framework v2: Improved capabilities and extension tools 2016 ,		19
92	On the Relationship Between the Underwater Acoustic and Optical Channels. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 8037-8051	9.6	18
91	Jamming-resistant multi-path routing for reliable intruder detection in underwater networks 2011 ,		18
90	Fountain codes and their application to broadcasting in underwater networks 2008 ,		18
89	Data upload from a static Underwater network to an AUV: Polling or random access? 2012 ,		17
88	Performance evaluation of forwarding protocols for the RACUN network 2013 ,		17
87	A study of incremental redundancy hybrid ARQ over Markov channel models derived from experimental data 2010 ,		17
86	MAC/PHY Cross-Layer Design of MIMO Ad Hoc Networks with Layered Multiuser Detection. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 4596-4607	9.6	17
85	Indoor Localization Using Commercial Off-The-Shelf 60 GHz Access Points 2018 ,		17
84	The Underwater Selective Repeat Error Control Protocol for Multiuser Acoustic Networks: Design and Parameter Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 4866-4877	9.6	16
83	Impact of Time-Varying Underwater Acoustic Channels on the Performance of Routing Protocols. <i>IEEE Journal of Oceanic Engineering</i> , 2013 , 38, 772-784	3.3	16
82	Communication-Driven Localization and Mapping for Millimeter Wave Networks 2018 ,		16

81	Scaling Millimeter-Wave Networks to Dense Deployments and Dynamic Environments. <i>Proceedings of the IEEE</i> , 2019 , 107, 732-745	14.3	15
80	ALBA: An Adaptive Load - Balanced Algorithm for Geographic Forwarding in Wireless Sensor Networks 2006 ,		15
79	On ARQ strategies over random access protocols in underwater acoustic networks 2011 ,		14
78	Cooperative Authentication in Underwater Acoustic Sensor Networks. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 954-968	9.6	14
77	Physical layer approximations for cross-layer performance analysis in MIMO-BLAST ad hoc networks. <i>IEEE Transactions on Wireless Communications</i> , 2007 , 6, 4390-4400	9.6	13
76	Simulation of multimodal optical and acoustic communications in underwater networks 2015 ,		12
75	A comparison between the Tone-Lohi and Slotted FAMA MAC protocols for underwater networks 2008 ,		12
74	. <i>IEEE Access</i> , 2019 , 7, 99978-99987	3.5	11
73	Implementation of a multi-modal acoustic-optical underwater network protocol stack 2016 ,		11
72	Cross-layer analysis via Markov models of incremental redundancy hybrid ARQ over underwater acoustic channels. <i>Ad Hoc Networks</i> , 2015 , 34, 62-74	4.8	10
71	The Throughput of Underwater Networks: Analysis and Validation using a Ray Tracing Simulator. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 1108-1117	9.6	10
70	On the feasibility of fully wireless remote control for underwater vehicles 2014 ,		10
69	CLAM [Collaborative embedded networks for submarine surveillance: An overview 2011 ,		10
68	Exploiting the Bandwidth-Distance Relationship in Underwater Acoustic Networks 2007 ,		10
67	A Comparison of Multiple Access Techniques in Clustered Underwater Acoustic Networks 2007 ,		10
66	A Handshake-Based Protocol Exploiting the Near-Far Effect in Underwater Acoustic Networks. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 308-311	5.9	10
65	Leveraging the Near-Far Effect for Improved Spatial-Reuse Scheduling in Underwater Acoustic Networks. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 1480-1493	9.6	9
64	Revisiting Source Routing for Underwater Networking: The SUN Protocol. <i>IEEE Access</i> , 2018 , 6, 1525-1543	3.5	9

63	RECORDS: A remote control framework for underwater networks 2014 ,		9
62	A Detailed Simulation Study of the UWAN-MAC Protocol for Underwater Acoustic Networks 2007 ,		9
61	Li-Tect: 3-D Monitoring and Shape Detection Using Visible Light Sensors. <i>IEEE Sensors Journal</i> , 2019 , 19, 940-949	4	9
60	Multipath Routing With Limited Cross-Path Interference in Underwater Networks. <i>IEEE Wireless Communications Letters</i> , 2014 , 3, 465-468	5.9	8
59	Simulation of a Multimodal Wireless Remote Control System for Underwater Vehicles 2015 ,		8
58	On the impact of the environment on MAC and routing in shallow water scenarios 2011 ,		8
57	DSMA 2006 ,		8
56	On modeling JANUS packet errors over a shallow water acoustic channel using Markov and hidden Markov models 2010 ,		7
55	Effective heuristics for flexible spectrum access in underwater acoustic networks 2008 ,		7
54	LEAP: Location Estimation and Predictive Handover with Consumer-Grade mmWave Devices 2019 ,		6
53	Software-defined open-architecture modems: Historical review and the NILUS approach 2014 ,		6
52	On the performance of delay Tolerant routing protocols in underwater networks 2011 ,		6
51	A study on the SPIHT image coding technique for underwater acoustic communications 2011 ,		6
50	WSN02-4: On the Performance of Access Strategies for MIMO Ad Hoc Networks. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006 ,		6
49	A TDMA-based MAC protocol exploiting the near-far effect in underwater acoustic networks 2016 ,		6
48	Optimal Transmission Scheduling in Small Multimodal Underwater Networks. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 368-371	5.9	6
47	Anchorless underwater acoustic localization 2017 ,		5
46	Packet error recovery via multipath routing and Reed-Solomon codes in underwater networks 2012 ,		5

45	2009,		5
44	An Approximate Approach for Layered SpaceTime Multiuser Detection Performance and its Application to MIMO Ad Hoc Networks 2006,		5
43	On the accuracy of passive multipath-aided underwater range estimation 2016,		5
42	IEEE Access Special Section Editorial: Underwater Wireless Communications and Networking. <i>IEEE Access</i> , 2019 , 7, 52288-52294	3.5	4
41	A detailed analytical and simulation study of geographic random forwarding. <i>Wireless Communications and Mobile Computing</i> , 2013 , 13, 916-934	1.9	4
40	2014,		4
39	Coastal patrol and surveillance networks using AUVs and delay-tolerant networking 2012,		4
38	2012,		4
37	On the Statistics and MAC Implications of Channel Estimation Errors in MIMO Ad Hoc Networks 2008,		4
36	A performance comparison of MAC protocols for underwater networks using a realistic channel simulator 2009,		4
35	Underwater Localization via Wideband Direction-of-Arrival Estimation Using Acoustic Arrays of Arbitrary Shape. <i>Sensors</i> , 2020 , 20,	3.8	4
34	Underwater Delay-Tolerant Routing via Probabilistic Spraying. <i>IEEE Access</i> , 2018 , 6, 77767-77784	3.5	4
33	Routing in multi-modal underwater networks: A throughput-optimal approach 2017,		3
32	Embedded systems for prototyping underwater acoustic networks: The DESERT Underwater libraries on board the PandaBoard and NetDCU 2012,		3
31	On the Impact of Channel Estimation Errors on MAC Protocols for MIMO Ad Hoc Networks. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 3290-3300	9.6	3
30	On the performance of unsynchronized distributed MAC protocols in deep water acoustic networks 2011,		3
29	Realistic Aspects of Simulation Models for Fake News Epidemics over Social Networks. <i>Future Internet</i> , 2021 , 13, 76	3.3	3
28	Underwater LiDAR Signal Processing for Enhanced Detection and Localization of Marine Life 2018,		3

27	Design and evaluation of a low-cost acoustic chamber for underwater networking experiments 2016,		2
26	Testing network protocols via the DESERT underwater framework: The CommsNetSI 3 experience 2014,		2
25	The NAUTILUS project: Physical parameters, architectures and network scenarios 2011,		2
24	On the impact of transmit waveforms on channel estimation inaccuracies in distributed MIMO ad hoc networks 2010,		2
23	Performance evaluation of random and handshake-based channel access in collaborative mobile underwater networks 2010,		2
22	Throughput and Transmission Capacity of Underwater Networks with Randomly Distributed Nodes 2011,		2
21	TinyNET: tiny network framework for TinyOS: description, implementation, and experimentation. <i>Wireless Communications and Mobile Computing</i> , 2010 , 10, 101-114	1.9	2
20	Bathymetry-aided underwater acoustic localization using a single passive receiver. <i>Journal of the Acoustical Society of America</i> , 2019 , 146, 4774	2.2	2
19	. <i>IEEE Journal of Oceanic Engineering</i> , 2021 , 46, 307-318	3.3	2
18	Controlled Flooding of Fountain Codes. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 4698-4716		1
17	Modeling the throughput of 1-persistent CSMA in underwater networks 2015,		1
16	Full Reconfiguration of Underwater Acoustic Networks through Low-Level Physical Layer Access 2017,		1
15	MACA-APT 2014,		1
14	Implementation and performance evaluation of wireless sensor networks for smart grid 324-350		1
13	2009,		1
12	Underwater Communications and Networking. <i>Journal of Electrical and Computer Engineering</i> , 2012 , 2012, 1-2	1.9	1
11	On the Design of Routing Protocols for MIMO Ad Hoc Networks under Uniform and Correlated Traffic 2008,		1
10	Medium Access Control 2012 , 19-48		1

9	Underwater Direction of Arrival Estimation using Wideband Arrays of Opportunity 2019 ,		1
8	Evaluating a Digital Twin of an IoT Resource Slice: An Emulation Study Using the ELIoT Platform. <i>IEEE Networking Letters</i> , 2021 , 3, 147-151	2.8	1
7	A Review of Millimeter Wave Device-based Localization and Device-free Sensing Technologies and Applications. <i>IEEE Communications Surveys and Tutorials</i> , 2022 , 1-1	37.1	1
6	Classification of Underwater Fish Images and Videos via Very Small Convolutional Neural Networks. <i>Journal of Marine Science and Engineering</i> , 2022 , 10, 736	2.4	1
5	SQLR: Short-Term Memory Q-Learning for Elastic Provisioning. <i>IEEE Transactions on Network and Service Management</i> , 2021 , 18, 1850-1869	4.8	0
4	Routing 2012 , 63-83		
3	Application Optimisation: Workload Prediction and Autonomous Autoscaling of Distributed Cloud Applications. <i>Palgrave Studies in Digital Business & Enabling Technologies</i> , 2020 , 51-68	0.5	
2	RECAP Data Acquisition and Analytics Methodology. <i>Palgrave Studies in Digital Business & Enabling Technologies</i> , 2020 , 27-50	0.5	
1	Logical Link Layer Topics 2012 , 49-61		