

Stefano Basagni

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

4,312
citations

331259

21
h-index

377514

34
g-index

122
all docs

122
docs citations

122
times ranked

2999
citing authors

#	ARTICLE	IF	CITATIONS
1	A distance routing effect algorithm for mobility (DREAM). , 1998, , .		919
2	Controlled sink mobility for prolonging wireless sensor networks lifetime. Wireless Networks, 2008, 14, 831-858.	2.0	332
3	Smart RF energy harvesting communications: challenges and opportunities. , 2015, 53, 70-78.		171
4	CARP: A Channel-aware routing protocol for underwater acoustic wireless networks. Ad Hoc Networks, 2015, 34, 92-104.	3.4	149
5	Open, Programmable, and Virtualized 5G Networks: State-of-the-Art and the Road Ahead. Computer Networks, 2020, 182, 107516.	3.2	128
6	Localized protocols for ad hoc clustering and backbone formation: a performance comparison. IEEE Transactions on Parallel and Distributed Systems, 2006, 17, 292-306.	4.0	124
7	Configuring bluestars: multihop scatternet formation for bluetooth networks. IEEE Transactions on Computers, 2003, 52, 779-790.	2.4	116
8	Intelligence and Learning in O-RAN for Data-Driven NextG Cellular Networks. IEEE Communications Magazine, 2021, 59, 21-27.	4.9	110
9	Beyond duty cycling: Wake-up radio with selective awakenings for long-lived wireless sensing systems. , 2015, , .		103
10	Path Finding for Maximum Value of Information in Multi-Modal Underwater Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2018, 17, 404-418.	3.9	103
11	A mobility-transparent deterministic broadcast mechanism for ad hoc networks. IEEE/ACM Transactions on Networking, 1999, 7, 799-807.	2.6	89
12	ALBA-R: Load-Balancing Geographic Routing Around Connectivity Holes in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 529-539.	4.0	87
13	Finding a Maximal Weighted Independent Set in Wireless Networks. Telecommunication Systems, 2001, 18, 155-168.	1.6	83
14	Maximizing the value of sensed information in underwater wireless sensor networks via an autonomous underwater vehicle. , 2014, , .		70
15	CARMA: Channel-Aware Reinforcement Learning-Based Multi-Path Adaptive Routing for Underwater Wireless Sensor Networks. IEEE Journal on Selected Areas in Communications, 2019, 37, 2634-2647.	9.7	69
16	Coordinated and controlled mobility of multiple sinks for maximizing the lifetime of wireless sensor networks. Wireless Networks, 2011, 17, 759-778.	2.0	63
17	BlueMesh: Degree-Constrained Multi-Hop Scatternet Formation for Bluetooth Networks. Mobile Networks and Applications, 2004, 9, 33-47.	2.2	62
18	Optimized Packet Size Selection in Underwater Wireless Sensor Network Communications. IEEE Journal of Oceanic Engineering, 2012, 37, 321-337.	2.1	57

#	ARTICLE	IF	CITATIONS
19	Comparative Performance Evaluation of Scatternet Formation Protocols for Networks of Bluetooth Devices. <i>Wireless Networks</i> , 2004, 10, 197-213.	2.0	47
20	Location aware, dependable multicast for mobile ad hoc networks. <i>Computer Networks</i> , 2001, 36, 659-670.	3.2	46
21	Channel-aware routing for underwater wireless networks. , 2012, , .		45
22	Wireless sensor networks with RF energy harvesting: Energy models and analysis. , 2015, , .		44
23	Experimental study of concurrent data and wireless energy transfer for sensor networks. , 2014, , .		42
24	A New MILP Formulation and Distributed Protocols for Wireless Sensor Networks Lifetime Maximization. , 2006, , .		35
25	Colosseum: Large-Scale Wireless Experimentation Through Hardware-in-the-Loop Network Emulation. , 2021, , .		34
26	Mitigating the impact of node mobility on ad hoc clustering. <i>Wireless Communications and Mobile Computing</i> , 2008, 8, 295-308.	0.8	33
27	Range extension of passive wake-up radio systems through energy harvesting. , 2013, , .		33
28	CellOS: Zero-touch Softwarized Open Cellular Networks. <i>Computer Networks</i> , 2020, 180, 107380.	3.2	33
29	Finding MARLIN: Exploiting multi-modal communications for reliable and low-latency underwater networking. , 2017, , .		32
30	CoLO-RAN: Developing Machine Learning-Based xApps for Open RAN Closed-Loop Control on Programmable Experimental Platforms. <i>IEEE Transactions on Mobile Computing</i> , 2023, 22, 5787-5800.	3.9	31
31	Experimental demonstration of multi-hop RF energy transfer. , 2013, , .		30
32	MARLIN-Q: Multi-modal communications for reliable and low-latency underwater data delivery. <i>Ad Hoc Networks</i> , 2019, 82, 134-145.	3.4	28
33	Controlled Vs. Uncontrolled Mobility in Wireless Sensor Networks: Some Performance Insights. <i>Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE</i> , 2007, , .	0.0	26
34	CTP-WUR: The collection tree protocol in wake-up radio WSNs for critical applications. , 2016, , .		26
35	Scheduling data transmissions of underwater sensor nodes for maximizing value of information. , 2013, , .		24
36	The SEANet Project: Toward a Programmable Internet of Underwater Things. , 2018, , .		24

#	ARTICLE	IF	CITATIONS
37	Modeling the residual energy and lifetime of energy harvesting sensor nodes. , 2012, , .		22
38	Harnessing HyDRO. , 2018, , .		20
39	Jamming detection at the edge of drone networks using Multi-layer Perceptrons and Decision Trees. Applied Soft Computing Journal, 2021, 111, 107806.	4.1	20
40	Efficiently reconfigurable backbones for wireless sensor networks. Computer Communications, 2008, 31, 668-698.	3.1	19
41	mmWave channel propagation modeling for V2X communication systems. , 2017, , .		19
42	Localization for Wireless Sensor Networks: Protocols and Perspectives. , 2007, , .		18
43	REACH ² -Mote. ACM Transactions on Sensor Networks, 2015, 11, 1-33.	2.3	17
44	Securing Bluetooth Low Energy networking: An overview of security procedures and threats. Computer Networks, 2022, 211, 108953.	3.2	15
45	Channel replay-based performance evaluation of protocols for underwater routing. , 2014, , .		14
46	Implementation of multi-path energy routing. , 2014, , .		13
47	Wake-up Radio Ranges: A Performance Study. , 2019, , .		13
48	The effect of multi-radio nodes on network connectivity -- a graph theoretic analysis. , 2008, , .		11
49	WHARP: A Wake-Up Radio and Harvesting-Based Forwarding Strategy for Green Wireless Networks. , 2017, , .		11
50	Wireless Media Access Control. , 0, , 119-143.		10
51	Location Discovery. , 2005, , 231-254.		10
52	Localization Error-Resilient Geographic Routing for Wireless Sensor Networks. , 2008, , .		10
53	A logarithmic lower bound for time-spread multiple-access (TSMA) protocols. Wireless Networks, 2000, 6, 161-163.	2.0	8
54	ROME: Routing Over Mobile Elements in WSNs. , 2009, , .		8

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55	On signaling power: Communications over wireless energy. , 2016, , .		8
56	Wake-Up Radio-Enabled Routing for Green Wireless Sensor Networks. , 2017, , .		8
57	Wake-up radio-based data forwarding for green wireless networks. Computer Communications, 2020, 160, 172-185.	3.1	8
58	StealTE: Private 5G Cellular Connectivity as a Service with Full-stack Wireless Steganography. , 2021, , .		8
59	Creating RF Scenarios for Large-scale, Real-time Wireless Channel Emulators. , 2021, , .		8
60	Design, Development, and Testing of a Smart Buoy for Underwater Testbeds in Shallow Waters. , 2020, , .		8
61	Clustering Algorithms and Validation Indices for mmWave Radio Multipath Propagation. , 2019, , .		7
62	Fault-Tolerant and Load Balancing Localization of Services in Wireless Sensor Networks. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .	0.0	6
63	Surviving wireless energy interference in RF-harvesting sensor networks: An empirical study. , 2014, , .		6
64	RF energy harvester-based wake-up receiver. , 2015, , .		6
65	Testbed-based performance evaluation of handshake-free MAC protocols for underwater acoustic sensor networks. , 2016, , .		6
66	QCell: Self-optimization of Softwarized 5G Networks through Deep Q-learning. , 2021, , .		6
67	Comparative Performance Evaluation of mmWave 5G NR and LTE in a Campus Scenario. , 2020, , .		5
68	Bluetooth Scatternet Formation and Scheduling: An Integrated Solution. , 2006, , .		4
69	Fail-Safe Hierarchical Organization for Wireless Sensor Networks. , 2007, , .		4
70	An all-digital receiver for low power, low bit-rate applications using simultaneous wireless information and power transmission. , 2016, , .		4
71	Clustering Algorithms and Validation Indices for a Wide mmWave Spectrum. Information (Switzerland), 2019, 10, 287.	1.7	4
72	Enabling the Mobile IoT: Wake-up Unmanned Aerial Systems for Long-Lived Data Collection. , 2019, , .		4

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73	Multi-Hop Wake-Up Radio Relaying for the Collection Tree Protocol. , 2019, , .		4
74	A note on causal trees and their applications to CCS. International Journal of Computer Mathematics, 1999, 71, 137-159.	1.0	3
75	Multiplexing data and control channels in random access underwater networks. , 2009, , .		3
76	The multi-radio advantage. , 2009, , .		3
77	M-Backs: Mobile backbones for multi-hop wireless networks. , 2011, , .		3
78	Recent research directions in wireless ad hoc networking. Ad Hoc Networks, 2007, 5, 1205-1207.	3.4	2
79	On the effects of multiple beacons on localization for wireless sensor networks. Wireless Telecommunications Symposium, 2009 WTS 2009, 2008, , .	0.0	2
80	On the Impact of Local Computation Over Routing Performance in Green Wireless Networks. , 2018, , .		2
81	Demonstrating the Resilience of Geographical Routing to Localization Errors. , 2007, , .		1
82	Flow-fair Intra-Piconet (Fâ,“IP) Scheduling for Communications in Personal Area Networks. , 2008, , .		1
83	WiEnum: Node enumeration in wireless networks. , 2015, , .		1
84	Editorial: Advances in experimental wireless platforms and systems. Computer Networks, 2022, 203, 108699.	3.2	1
85	Editors Foreword to the Special Issue on Principles of Mobile Communications and Computing. Algorithmica, 2007, 49, 259-263.	1.0	0
86	BlueFlows: Routing and flow admission in bluetooth PANs. , 2009, , .		0
87	Using Multiple Radios for Ad Hoc Backbone Construction and Maintenance. , 2011, , .		0
88	Mobile ad hoc backbones for multi-radio networks. , 2012, , .		0
89	Outdoor mmWave Channel Propagation Models using Clustering Algorithms. , 2020, , .		0
90	An overview of the University of Texas at Dallas' center for advanced telecommunications systems and services (CATSS). Mobile Computing and Communications Review, 2000, 4, 63-69.	1.7	0

#	ARTICLE	IF	CITATIONS
91	Remarks on Ad Hoc Networking. Lecture Notes in Computer Science, 2002, , 101-123.	1.0	0
92	Location Management in Multi-Hop Wireless Sensor Networks. , 2010, , 805-833.		0