Marcos Vieira

List of Publications by Year
in descending order

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68	1,003	840776	501196
papers	citations	11 h-index	28 g-index

68	68	68	857
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visible Light Communication: Concepts, Applications and Challenges. IEEE Communications Surveys and Tutorials, 2019, 21, 3204-3237.	39.4	317
2	Programmable Networksâ€"From Software-Defined Radio to Software-Defined Networking. IEEE Communications Surveys and Tutorials, 2015, 17, 1102-1125.	39.4	91
3	Fast Packet Processing with eBPF and XDP. ACM Computing Surveys, 2021, 53, 1-36.	23.0	89
4	Scheduling nodes in wireless sensor networks: a Voronoi approach. , 2003, , .		49
5	NanoRouter: A Quantum-dot Cellular Automata Design. IEEE Journal on Selected Areas in Communications, 2013, 31, 825-834.	14.0	49
6	Robust Serial Nanocommunication With QCA. IEEE Nanotechnology Magazine, 2015, 14, 464-472.	2.0	42
7	Ethanol: Software defined networking for 802.11 Wireless Networks. , 2015, , .		32
8	Mobile Matrix: Routing under mobility in IoT, IoMT, and Social IoT. Ad Hoc Networks, 2018, 78, 84-98.	5.5	24
9	Ethanol: A Software-Defined Wireless Networking architecture for IEEE 802.11 networks. Computer Communications, 2020, 149, 176-188.	5.1	20
10	CodeDrip: Improving data dissemination for wireless sensor networks with network coding. Ad Hoc Networks, 2017, 54, 42-52.	5.5	18
11	Water ping: ICMP for the internet of underwater things. Computer Networks, 2019, 152, 54-63.	5.1	15
12	CodeDrip: Data Dissemination Protocol with Network Coding for Wireless Sensor Networks. Lecture Notes in Computer Science, 2014, , 34-49.	1.3	15
13	HydroNode: A low cost, energy efficient, multi purpose node for underwater sensor networks. , 2012, , .		12
14	CAPTAIN: A data collection algorithm for underwater optical-acoustic sensor networks. Computer Networks, 2020, 171, 107145.	5.1	12
15	OpenFlow data planes performance evaluation. Performance Evaluation, 2021, 147, 102194.	1.2	12
16	DYRP-VLC: A dynamic routing protocol for Wireless Ad-Hoc Visible Light Communication Networks. Ad Hoc Networks, 2019, 94, 101941.	5.5	11
17	Network management through graphs in Software Defined Networks. , 2014, , .		10
18	eXtend collection tree protocol. , 2015, , .		9

#	Article	IF	Citations
19	Wireless control using reinforcement learning for practical web QoE. Computer Communications, 2020, 154, 331-346.	5.1	9
20	UW-SEEDEX: A Pseudorandom-Based MAC Protocol for Underwater Acoustic Networks. IEEE Transactions on Mobile Computing, 2022, 21, 3402-3413.	5.8	9
21	Survey on the design of underwater sensor nodes. Design Automation for Embedded Systems, 2016, 20, 171-190.	1.0	8
22	Network Coding for 5G Network and D2D Communication. , 2017, , .		8
23	Matrix: Multihop Address allocation and dynamic any-To-any Routing for 6LoWPAN. Computer Networks, 2018, 140, 28-40.	5.1	8
24	The internet of light: Impact of colors in LED-to-LED visible light communication systems. Internet Technology Letters, 2019, 2, e78.	1.9	8
25	Cellular automata-based byte error correction in QCA. Nano Communication Networks, 2020, 23, 100278.	2.9	8
26	CGR: Centrality-based green routing for Low-power and Lossy Networks. Computer Networks, 2017, 129, 117-128.	5.1	7
27	FWB: Funneling Wider Bandwidth algorithm for high performance data collection in Wireless Sensor Networks. Computer Communications, 2019, 148, 136-151.	5.1	6
28	3DVS: Node scheduling in underwater sensor networks using 3D voronoi diagrams. Computer Networks, 2019, 159, 73-83.	5.1	6
29	SplitPath: High throughput using multipath routing in dual-radio Wireless Sensor Networks. Computer Networks, 2022, 207, 108832.	5.1	6
30	HydroNode. , 2012, , .		5
31	Embedded IoT Systems: Network, Platform, and Software. Mobile Information Systems, 2017, 2017, 1-2.	0.6	5
32	Advances in Mobile Networking for IoT Leading the 4th Industrial Revolution. Mobile Information Systems, 2018, 2018, 1-3.	0.6	5
33	Intra and inter-flow link aggregation in SDN. Telecommunication Systems, 2022, 79, 95-107.	2.5	5
34	Autonomous wireless backbone deployment with bounded number of networked robots. , 2014, , .		4
35	Wireless scheduling with multiple data rates: From physical interference to disk graphs. Computer Networks, 2016, 106, 64-76.	5.1	4
36	Modeling, Analysis and Simulation of Wireless Power Transfer. , 2017, , .		4

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37	Integer linear programming formulations for the variable data rate and variable channel bandwidth scheduling problem in wireless networks. Computer Networks, 2019, 165, 106939.	5.1	4
38	Optimal Transmission Range and Charging Time for Qi-Compliant Systems. IEEE Transactions on Power Electronics, 2020, 35, 12765-12772.	7.9	4
39	Grayâ€code adder with parity generator â€“ a novel quantumâ€dot cellular automata implementation. IET Circuits, Devices and Systems, 2020, 14, 243-250.	1.4	4
40	A cooperative protocol for pervasive underwater acoustic networks. Wireless Networks, 2021, 27, 1941-1963.	3.0	4
41	Chaining-Box: A Transparent Service Function Chaining Architecture Leveraging BPF. IEEE Transactions on Network and Service Management, 2022, 19, 497-509.	4.9	4
42	CodePLC: A Network Coding MAC Protocol for Power Line Communication. , 2016, , .		3
43	FlushMF: A Transport Protocol Using Multiple Frequencies for Wireless Sensor Network. , 2016, , .		3
44	Efficient virtual network isolation in multi-tenant data centers on commodity ethernet switches. , 2016, , .		3
45	Hybrid multicriteria algorithms applied to structural design of wireless local area networks. Applied Intelligence, 2018, 48, 3653-3671.	5.3	3
46	Dual Radio Networks: Are Two Disjoint Paths Enough?. IEEE Internet of Things Magazine, 2021, 4, 67-71.	2.6	3
47	Wireless multi-rate scheduling: From physical interference to disk graphs. , 2012, , .		2
48	On the Development of a Robotic System for Telepresence. , 2013, , .		2
49	Hardware Modules for Packet Interarrival Time Monitoring for Software Defined Measurements. , 2016, , .		2
50	Dynamic Link Aggregation in Software Defined Networking. , 2018, , .		2
51	Software-defined networking with services oriented by domain names. Telecommunication Systems, 2020, 74, 67-82.	2.5	2
52	Rapid Top-Down Synthesis of Large-Scale IoT Networks. , 2020, , .		2
53	Synthesis of Large-Scale Instant IoT Networks. IEEE Transactions on Mobile Computing, 2023, 22, 1810-1824.	5.8	2
54	A dynamic network coding MAC protocol for power line communication. Telecommunication Systems, 2021, 77, 359-375.	2.5	2

#	Article	IF	Citations
55	Processamento RÃ¡pido de Pacotes com eBPF e XDP. , 0, , 92-141.		2
56	Robotic Communication Backbone. , 2012, , .		1
57	Routing IPv6 over wireless networks with low-memory devices. , 2013, , .		1
58	COPPER: Increasing Underwater Sensor Network Performance Through Nodes Cooperation. , 2018, , .		1
59	Comparison of data center traffic division policies using SDN. , 2018, , .		1
60	DCTP-A and DCTP-I. , 2019, , .		1
61	Localization Using Ultra Wideband and IEEE 802.15.4 Radios with Nonlinear Bayesian Filters: a Comparative Study. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 99, 571-587.	3.4	1
62	BloomTime: space-efficient stateful tracking of time-dependent network performance metrics. Telecommunication Systems, 2020, 74, 201-223.	2.5	1
63	Performance evaluation of AODV over CSMA and TSCH. Internet Technology Letters, 0, , e276.	1.9	1
64	Data-rate maximization in wireless communication networks. , 2013, , .		0
65	Tamanho Ã“timo do Pacote em ComunicaÃ§Ã£o por Luz VisÃvel Sem Fio. , 0, , .		0
66	On Braess's Paradox and Routing Algorithms. Internet Technology Letters, 0, , e334.	1.9	0
67	Sensing the Sensor: Estimating Camera Properties with Minimal Information. ACM Transactions on Sensor Networks, 2022, 18, 1-26.	3.6	0
68	A Proposal of a Dynamic Routing Multicast Protocol for Visible Light Communication Networks. , 2021, , .		0