Ricardo Severino

List of Publications by Year
in descending order

34 papers	453 citations	1163117 8 h-index	888059 17 g-index
35 all docs	35 docs citations	35 times ranked	364 citing authors

#	Article	IF	Citations
1	Improving Quality-of-Service in Wireless Sensor Networks by Mitigating â€œHidden-Node Collisionsâ€. IEEE Transactions on Industrial Informatics, 2009, 5, 299-313.	11.3	80
2	IEEE 802.15.4e in a Nutshell: Survey and Performance Evaluation. IEEE Communications Surveys and Tutorials, 2018, 20, 1989-2010.	39.4	77
3	Open-ZB: an open-source implementation of the IEEE 802.15.4/ZigBee protocol stack on TinyOS. , 2007, , .		44
4	Dimensioning and worst-case analysis of cluster-tree sensor networks. ACM Transactions on Sensor Networks, 2010, 7, 1-47.	3.6	34
5	Dynamic cluster scheduling for cluster-tree WSNs. SpringerPlus, 2014, 3, 493.	1.2	20
6	Real-Time Communications Over Cluster-Tree Sensor Networks with Mobile Sink Behaviour. , 2008, , .		17
7	A Traffic Differentiation Add-On to the IEEE 802.15.4 Protocol: Implementation and Experimental Validation over a Real-Time Operating system. , 2010, , .		16
8	Engineering a Search and Rescue Application with a Wireless Sensor Network - based Localization Mechanism. , 2007, , .		15
9	COPADRIVe - A Realistic Simulation Framework for Cooperative Autonomous Driving Applications. , 2019, , .		15
10	Wireless Communication Technologies for Safe Cooperative Cyber Physical Systems. Sensors, 2018, 18, 4075.	3.8	14
11	Worst-case bound analysis for the time-critical MAC behaviors of IEEE 802.15.4e. , 2017, , .		13
12	Design and Implementation of Secret Key Agreement for Platoon-based Vehicular Cyber-physical Systems. ACM Transactions on Cyber-Physical Systems, 2020, 4, 1-20.	2.5	13
13	Towards a Cooperative Robotic Platooning Testbed. , 2020, , .		10
14	DynaMOâ€"Dynamic Multisuperframe Tuning for Adaptive IEEE 802.15.4e DSME Networks. IEEE Access, 2019, 7, 122522-122535.	4.2	9
15	Symphony. ACM SIGBED Review, 2020, 16, 26-31.	1.8	9
16	A Comprehensive Worst Case Bounds Analysis of IEEE 802.15.7. Journal of Sensor and Actuator Networks, 2021, 10, 23.	3.9	7
17	ERIKA and open-ZB. , 2009, , .		6
18	Cooperative Key Generation for Data Dissemination in Cyber-Physical Systems. , 2018, , .		6

#	Article	IF	Citations
19	Towards a Realistic Simulation Framework for Vehicular Platooning Applications. , 2019, , .		6
20	CopaDrive: An Integrated ROS Cooperative Driving Test and Validation Framework. Studies in Computational Intelligence, 2021, , 121-174.	0.9	6
21	Dynamic cluster scheduling for cluster-tree WSNs. , 2013, , .		5
22	A cross-layer QoS management framework for ZigBee cluster-tree networks. Telecommunication Systems, 2016, 63, 381-397.	2.5	5
23	On the robot path planning using cloud computing for large grid maps. , 2018, , .		4
24	Poster Abstract: An Efficient Approach to Multisuperframe Tuning for DSME Networks. , 2018, , .		3
25	An Integrated Lateral and Longitudinal Look Ahead Controller for Cooperative Vehicular Platooning. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 142-159.	0.3	3
26	DynaMO. ACM SIGBED Review, 2020, 16, 8-13.	1.8	3
27	Improving the Performance of Cooperative Platooning With Restricted Message Trigger Thresholds. IEEE Access, 2022, 10, 45562-45575.	4.2	3
28	A microscope for the data centre. International Journal of Sensor Networks, 2015, 18, 193.	0.4	2
29	WiCAR - Simulating Towards the Wireless Car. Lecture Notes in Computer Science, 2020, , 136-147.	1.3	2
30	Tightening Up Security In Low Power Deterministic Networks. , 2020, , .		1
31	Prototype WSN Platform for Performing Dynamic Monitoring of Civil Engineering Structures. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 81-89.	0.5	1
32	Amendments to the IEEE 802.15.4 Protocol. Springer Briefs in Electrical and Computer Engineering, 2013, , 85-112.	0.5	1
33	An Exact Scheduling Algorithm for Convergecast and Broadcast in Tree Topology WSNs : -An Application to DSME-IEEE 802.15.4e-. , 2021, , .		0
34	Performance Analysis and Network Dimensioning. Springer Briefs in Electrical and Computer Engineering, 2013, , 65-82.	0.5	0