Rodolfo Oliveira

List of Publications by Year
in descending order

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135	770	686830	839053
papers	citations	13	18
		h-index	g-index

141	141	141	721
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vehicle and Mission Control of the DELFIM Autonomous Surface Craft. , 2006, , .		69
2	The influence of broadcast traffic on IEEE 802.11 DCF networks. Computer Communications, 2009, 32, 439-452.	3.1	29
3	Improving path duration in high mobility vehicular ad hoc networks. Ad Hoc Networks, 2013, 11, 89-103.	3.4	26
4	Spectrum Sensing Performance in Cognitive Radio Networks With Multiple Primary Users. IEEE Transactions on Vehicular Technology, 2016, 65, 1564-1574.	3.9	24
5	Frequency-domain multipacket detection: a high throughput technique for SC-FDE systems. IEEE Transactions on Wireless Communications, 2009, 8, 3798-3807.	6.1	23
6	Bioaccessibility in risk-benefit analysis of raw and cooked seabream consumption. Journal of Food Composition and Analysis, 2018, 68, 118-127.	1.9	23
7	A Wireless Sensor MAC Protocol for Bursty Data Traffic. , 2007, , .		22
8	The 20 February 2010 Madeira Island flash-floods: VHR satellite imagery processing in support of landslide inventory and sediment budget assessment. Natural Hazards and Earth System Sciences, 2013, 13, 709-719.	1.5	21
9	Distribution of the Residual Self-Interference Power in In-Band Full-Duplex Wireless Systems. IEEE Access, 2019, 7, 57516-57526.	2.6	21
10	PHY/MAC Uplink Performance of LoRa Class A Networks. IEEE Internet of Things Journal, 2020, 7, 6528-6538.	5.5	21
11	The Impact of Node's Mobility on Link-Detection Based on Routing Hello Messages. , 2010, , .		20
12	Modelling Delay on IEEE 802.11 MAC Protocol for Unicast and Broadcast Nonsaturated Traffic. , 2007, , .		19
13	Adaptive Power Factor Allocation for Cooperative Full-Duplex NOMA Systems With Imperfect SIC and Rate Fairness. IEEE Transactions on Vehicular Technology, 2020, 69, 14061-14066.	3.9	18
14	RF-Spectrum Opportunities for Cognitive Radio Networks Operating Over GSM Channels. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 731-739.	4.9	17
15	Towards a Realistic Primary Users' Behavior in Single Transceiver Cognitive Networks. IEEE Communications Letters, 2013, 17, 309-312.	2.5	15
16	Aggregate Interference in Random Waypoint Mobile Networks. IEEE Communications Letters, 2015, 19, 1021-1024.	2.5	15
17	Vehicle Trajectory Prediction based on LSTM Recurrent Neural Networks. , 2021, , .		15
18	Performance Analysis of the IEEE 802.11 Distributed Coordination Function with Unicast and Broadcast Traffic. , 2006, , .		14

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19	Interference Characterization in Random Waypoint Mobile Networks. IEEE Transactions on Wireless Communications, 2018, 17, 7340-7351.	6.1	14
20	Analytical BER and PER Performance of Frequency-Domain Diversity Combining, Multipacket Detection and Hybrid Schemes. IEEE Transactions on Communications, 2012, 60, 2353-2362.	4.9	13
21	Towards Reliable Broadcast in ad hoc Networks. IEEE Communications Letters, 2012, 16, 314-317.	2.5	13
22	Frequency-Domain Multipacket Detection: A High Throughput Technique for SC-FDE Systems. , 2007, , .		10
23	Characterization of the Opportunistic Service Time in Cognitive Radio Networks. IEEE Transactions on Cognitive Communications and Networking, 2016, 2, 288-300.	4.9	10
24	Performance Analysis of an Hybrid ARQ Adaptation of NDMA Schemes. IEEE Transactions on Communications, 2013, 61, 3304-3317.	4.9	9
25	User Fairness in Wireless Powered Communication Networks With Non-Orthogonal Multiple Access. IEEE Wireless Communications Letters, 2021, 10, 189-193.	3.2	9
26	An Adaptive Learning-Based Approach for Vehicle Mobility Prediction. IEEE Access, 2021, 9, 13671-13682.	2.6	9
27	Approximate Distributions of the Residual Self-Interference Power in Multi-Tap Full-Duplex Systems. IEEE Wireless Communications Letters, 2021, 10, 755-759.	3.2	9
28	Performance of Packet Combining ARQ Error Control in a TDMA SC-FDE System. , 2010, , .		8
29	A MAC Protocol for Mobile Wireless Sensor Networks with Bursty Traffic. , 2010, , .		8
30	Energy-Efficient QoS Provisioning in Demand Assigned Satellite NDMA Schemes. , 2012, , .		8
31	A Hybrid ARQ Scheme for Faster than Nyquist Signaling with Iterative Frequency-Domain Detection. , 2015, , .		8
32	Highly Accurate Approaches for the Interference Modeling in Coexisting Wireless Networks. IEEE Communications Letters, 2019, 23, 1652-1656.	2.5	8
33	Non-Orthogonal Multiple Access in Two-Hop Wireless Powered Communication Networks. IEEE Wireless Communications Letters, 2020, 9, 1398-1402.	3.2	8
34	Electrochemical Therapy to Treat Cancer (In Vivo Treatment). Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3524-7.	0.5	7
35	Improving routing performance in high mobility and high density ad hoc vehicular networks. , 2010, , .		7
36	Localization of Static Remote Devices Using Smartphones. , 2018, , .		7

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37	Algorithms for Estimating the Location of Remote Nodes Using Smartphones. IEEE Access, 2019, 7, 33713-33727.	2.6	7
38	A Machine Learning Approach for Prediction of Signaling SIP Dialogs. IEEE Access, 2021, 9, 44094-44106.	2.6	7
39	Aerial Intelligent Reflecting Surfaces in MIMO-NOMA Networks: Fundamentals, Potential Achievements, and Challenges. IEEE Open Journal of the Communications Society, 2022, 3, 1007-1024.	4.4	7
40	Delay Optimization on a p-Persistent MAC Protocol for a Multi-Packet Detection in SC-FDE System. , 2010, , .		6
41	Should We Avoid Nonlinear Effects in a Digital Transmission System?. , 2010, , .		6
42	Analytical Performance Evaluation of SC-FDE Modulations with Packet Combining and Multipacket Detection Schemes. , 2011, , .		6
43	Energy sensing parameterization criteria for cognitive radios. , 2012, , .		6
44	Characterization of Energy Availability in RF Energy Harvesting Networks. Mathematical Problems in Engineering, 2016, 2016, 1-9.	0.6	6
45	Successful Packet Reception Analysis in Multi-Packet Reception Wireless Systems. IEEE Communications Letters, 2016, 20, 2498-2501.	2.5	6
46	On the Impact of Fading on Residual Self-Interference Power of In-Band Full-Duplex Wireless Systems. , 2018, , .		6
47	Impact of Wireless-Powered Communications in Coexisting Mobile Networks. IEEE Wireless Communications Letters, 2020, , 1-1.	3.2	6
48	Performance Comparison of Diversity Combining ARQ Error Control Schemes with Multi-Packet Detection Schemes. , 2010, , .		5
49	Performance of Hybrid ARQ for Network Diversity Multiple Access Schemes. , 2011, , .		5
50	Performance of Diversity Combining ARQ Error Control in a TDMA SC-FDE System. IEEE Transactions on Communications, 2012, 60, 735-746.	4.9	5
51	A Novel Reservation-based MAC Scheme for Distributed Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	3.9	5
52	Towards the Use of XOR-Based Routing Protocols in Vehicular Ad Hoc Networks. , 2011, , .		4
53	Characterization of the residual self-interference power in full-duplex wireless systems. , 2018, , .		4
54	IEEE 802.11 Delay Analysis for Multirate Variable Frame Length. , 2007, , .		3

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55	A MAC Protocol for Half-Duplex Multi-Packet Detection in SC-FDE Systems. , 2009, , .		3
56	Maximum-Throughput Access Control in Wireless LANs Through Max-Weight-Inspired Policies. IEEE Transactions on Vehicular Technology, 2010, 59, 3036-3046.	3.9	3
57	Energy Per Useful Packet Optimization on a TDMA WSN Channel. , 2010, , .		3
58	Detection of licensed users' activity in a random access ultra wideband cognitive system. , 2014, , .		3
59	A high throughput H-ARQ technique with Faster-than-Nyquist signaling. , 2014, , .		3
60	Uplink Performance Evaluation of Packet Combining ARQ for MPR Prefix-Assisted DS-CDMA. IEEE Transactions on Communications, 2015, 63, 2685-2697.	4.9	3
61	Modeling energy availability in RF Energy Harvesting Networks. , 2016, , .		3
62	RF-spectrum opportunities for cognitive radio networks operating over GSM channels. , 2017, , .		3
63	Modeling the Interference caused to a LoRaWAN Gateway due to Uplink Transmissions. , 2019, , .		3
64	A Comparative Evaluation of Probabilistic and Deep Learning Approaches for Vehicular Trajectory Prediction. IEEE Open Journal of Vehicular Technology, 2021, 2, 140-150.	3.4	3
65	Detection of Abnormal SIP Signaling Patterns: A Deep Learning Comparison. Computers, 2022, 11, 27.	2.1	3
66	Searching for PI resources on MANETs using JXTA. , 2005, , .		2
67	A load-adaptive timeout for beaconing-based link protocols in ad hoc networks. , 2008, , .		2
68	Joint topology control and routing in ad hoc vehicular networks. , 2010, , .		2
69	Energy Per Useful Packet Optimization on a TDMA HAP Channel. , 2010, , .		2
70	Maximizing throughput-fairness tradeoff in MAC for ad hoc networks. , 2011, , .		2
71	Performance analysis of XOR-based routing in urban vehicular ad hoc networks. , 2012, , .		2
72	A Soft-Handover Scheme for LEO Satellite Networks. , 2013, , .		2

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73	FM-MAC: A Novel MAC Protocol for In-Band Full-Duplex Systems That Use Multipacket Reception. , 2015, , .		2
74	MyopicMAC: A Throughput-Optimal Random Access Scheme for Distributed Wireless Networks. Wireless Personal Communications, 2016, 86, 1693-1715.	1.8	2
75	Power Allocation, Relay Selection, and User Pairing for Cooperative NOMA Systems with Rate Fairness. , 2021, , .		2
76	Outage Probability for Directional Beamforming in High Density Wireless Networks. , 2021, , .		2
77	Channel Availability Assessment for Cognitive Radios. IFIP Advances in Information and Communication Technology, 2013, , 495-504.	0.5	2
78	Searching for Resources in MANETs â€“ A Cluster Based Flooding Approach. Communications in Computer and Information Science, 2007, , 236-245.	0.4	2
79	Classification of Abnormal Signaling SIP Dialogs Through Deep Learning. IEEE Access, 2021, 9, 165557-165567.	2.6	2
80	Characterization of the End-to-End Delay in Heterogeneous Networks. , 2021, , .		2
81	The Importance of Repetitions in Ultra-Dense NB-IoT Networks. IEEE Communications Letters, 2022, 26, 1199-1203.	2.5	2
82	A Novel Packet End-to-End Delay Estimation Method for Heterogeneous Networks. IEEE Access, 2022, 10, 71387-71397.	2.6	2
83	On service time estimation in 802.11 WLANs with heterogeneous traffic sources. , 2008, , .		1
84	Queue and Channel State Awareness for Maximum Throughput Access Control in CSMA/CA-Based Wireless LANs. , 2009, , .		1
85	Analysis of heuristic-based MAC protocols for ad hoc networks. , 2011, , .		1
86	The impact of transmission errors in MAC schemes for distributed wireless networks. , 2012, , .		1
87	Frequency-domain cross-layer diversity techniques: an efficient way of coping with lost packets in broadband wireless systems. IEEE Wireless Communications, 2013, 20, 100-108.	6.6	1
88	Optimization of a p-persistent Network Diversity Multiple Access Protocol for a SC-FDE System. IEEE Transactions on Wireless Communications, 2013, 12, 5953-5965.	6.1	1
89	On the use of frequency-domain cross-layer diversity techniques to cope with lost packets. Physical Communication, 2013, 8, 56-68.	1.2	1
90	Characterization of the Spatial False Alarm effect in Cognitive Radio Networks. , 2014, , .		1

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91	SC-FDE femtocell energy saving using IB-DFE Interference Cancellation techniques. , 2014, , .		1
92	A non-preemptive mac protocol for multi-channel cognitive radio networks. , 2015, , .		1
93	Multipacket reception performance in the presence of in-band full duplex communication. , 2015, , .		1
94	On the performance of decentralized CR MAC protocols under heterogeneous channel sensing conditions. , 2015, , .		1
95	Performance analysis of a distributed MAC scheme for Multi-Packet Reception wireless networks. , 2017, , .		1
96	Outliers detection in network services with self-learned profiles. , 2017, , .		1
97	Performance analysis of Multi-Packet Reception wireless systems in far-field region. , 2017, , .		1
98	On Hybrid RSS/TOA Target Localization in NLOS Environments. , 2018, , .		1
99	Optimal Cross-Layer Design for Decentralized Multi-Packet Reception Wireless Networks. , 2018, , .		1
100	Residual Self-Interference Estimation in In-Band Full-Duplex Wireless Systems. , 2020, , .		1
101	In-Band Full-duplex Residual Self-interference Approximation in Multi-tap Delay Fading Channels. , 2020, , .		1
102	Performance Analysis of Interference-Aware Multi-Packet Reception Networks. Electronics (Switzerland), 2020, 9, 665.	1.8	1
103	Abnormal Signaling SIP Dialogs Detection based on Deep Learning. , 2021, , .		1
104	Aggregate Interference Power Characterization for Directional Beamforming Wireless Networks. , 2021, , .		1
105	Influence of the Spatial Distribution of the Transmitters on the Performance of Multi-Packet Reception Wireless Systems. IEEE Wireless Communications Letters, 2021, 10, 1093-1097.	3.2	1
106	Interference estimation in wireless mobile random waypoint networks. Telfor Journal, 2016, 8, 93-97.	0.7	1
107	A Telephony Application for Manets: Voice over a MANET-Extended JXTA Virtual Overlay Network. Communications in Computer and Information Science, 2006, , 347-358.	0.4	1
108	Achieving proportional fair throughput in multi-rate random access wireless networks. , 2008, , .		0

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109	A Proposal for an XOR-Based Flat Routing Mechanism in Internet-Like Topologies. , 2010, , .		0
110	A Reliable Broadcast and Unicast MAC Protocol for Ad Hoc Networks. , 2011, , .		0
111	Performance Evaluation and Comparison between Iterative DS-CDMA and NDMA. , 2012, , .		0
112	Energy-Efficient QoS Provisioning in Random Access Satellite NDMA Schemes. , 2013, , .		0
113	A two-phase contention window control scheme for decentralized wireless networks. , 2014, , .		0
114	Interference estimation in wireless mobile random waypoint networks. , 2015, , .		0
115	A double-stage reservation-based MAC scheme for distributed cognitive radio networks. , 2015, , .		0
116	Sensing capacity of Cognitive Radio Mobile Ad Hoc Networks. , 2015, , .		0
117	Performance of a cognitive p-persistent slotted Aloha protocol. , 2015, , .		0
118	Using Lightly Synchronized MultiPacket Reception in Machine-Type Communication Networks. , 2016, , .		0
119	A distributed MAC protocol for multi-packet reception wireless networks. , 2016, , .		0
120	XOR-Based Routing Protocols in Vehicular Ad Hoc Networks: How Well Do They Perform?. Wireless Personal Communications, 2017, 95, 1333-1357.	1.8	0
121	A low complexity channel estimation scheme for Massive MIMO systems. , 2017, , .		0
122	Impact of Mobility in Spectrum Sensing Capacity. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 162-172.	0.2	0
123	Decentralized PHY/MAC Design for the Uplink of Multi-Packet Reception Wireless Networks. , 2018, , .		0
124	The impact of phase-noise on the communication system receivers. , 2018, , .		0
125	Upper Bound Performance of Uplink Class A LoRa Networks. , 2019, , .		0
126	Interference Analysis for Secondary Coexistence in Licensed Networks. , 2019, , .		0

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127	Vehicle Trajectory Estimation based on Dynamic Bayesian Networks. , 2020, , .		0
128	Interference Power Characterization in Directional Networks and Full-Duplex Systems. IFIP Advances in Information and Communication Technology, 2021, , 218-225.	0.5	0
129	Optimal Carrier Sensing Range in Coexisting Wireless Networks. , 2021, , .		0
130	Energy Efficient NDMA Multi-packet Detection with Multiple Power Levels. International Federation for Information Processing, 2011, , 581-588.	0.4	0
131	Performance of Hybrid ARQ for NDMA Access Schemes with Uniform Average Power Control. Journal of Communications, 2011, 6, .	1.3	0
132	Interference Distribution of a CDMA Cognitive Radio Ad Hoc Network. International Federation for Information Processing, 2012, , 493-502.	0.4	0
133	Random Access NDMA MAC Protocols for Satellite Networks. Lecture Notes in Computer Science, 2013, , 427-438.	1.0	0
134	Practical Assessment of Energy-Based Sensing through Software Defined Radio Devices. IFIP Advances in Information and Communication Technology, 2014, , 525-532.	0.5	0
135	Self-interference in Multi-tap Channels for Full-Duplex Wireless Systems. IFIP Advances in Information and Communication Technology, 2020, , 147-155.	0.5	0