

# João Barros

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

5,532  
citations

393982

19  
h-index

642321

23  
g-index

50  
all docs

50  
docs citations

50  
times ranked

3568  
citing authors

#	ARTICLE	IF	CITATIONS
1	PortoLivingLab: An IoT-Based Sensing Platform for Smart Cities. IEEE Internet of Things Journal, 2018, 5, 523-532.	5.5	149
2	A Mobile Sensing Approach to Stress Detection and Memory Activation for Public Bus Drivers. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 3294-3303.	4.7	51
3	Modeling Network Coded TCP: Analysis of Throughput and Energy Cost. Mobile Networks and Applications, 2014, 19, 790-803.	2.2	5
4	TVR Tall Vehicle Relaying in Vehicular Networks. IEEE Transactions on Mobile Computing, 2014, 13, 1118-1131.	3.9	47
5	Network coding for wireless cooperative networks: Simple rules, near-optimal delay. , 2014, , .		5
6	Geometry-Based Vehicle-to-Vehicle Channel Modeling for Large-Scale Simulation. IEEE Transactions on Vehicular Technology, 2014, 63, 4146-4164.	3.9	171
7	Coding for Secrecy: An Overview of Error-Control Coding Techniques for Physical-Layer Security. IEEE Signal Processing Magazine, 2013, 30, 41-50.	4.6	144
8	Random puncturing for secrecy. , 2013, , .		6
9	Melting Pad: An Efficiently Decodable Coding Scheme for Information Theoretic Confidentiality. , 2013, , .		1
10	Collision-free jamming for enhanced wireless secrecy. , 2013, , .		7
11	LDPC Codes for the Gaussian Wiretap Channel. Wireless Networks and Mobile Communications, 2013, , 33-46.	1.0	2
12	A cooperative protocol for jamming eavesdroppers in wireless networks. , 2012, , .		3
13	A total energy approach to protocol design in coded wireless sensor networks. , 2012, , .		3
14	Coding for Trusted Storage in Untrusted Networks. IEEE Transactions on Information Forensics and Security, 2012, 7, 1890-1899.	4.5	37
15	Secure Communication in Stochastic Wireless Networks Part II: Maximum Rate and Collusion. IEEE Transactions on Information Forensics and Security, 2012, 7, 139-147.	4.5	78
16	Secure Communication in Stochastic Wireless Networks Part I: Connectivity. IEEE Transactions on Information Forensics and Security, 2012, 7, 125-138.	4.5	132
17	Security and privacy issues for the network of the future. Security and Communication Networks, 2012, 5, 987-1005.	1.0	12
18	Exploiting the height of vehicles in vehicular communication. , 2011, , .		19

#	ARTICLE	IF	CITATIONS
19	LDPC Codes for the Gaussian Wiretap Channel. IEEE Transactions on Information Forensics and Security, 2011, 6, 532-540.	4.5	182
20	Position-Based Jamming for Enhanced Wireless Secrecy. IEEE Transactions on Information Forensics and Security, 2011, 6, 616-627.	4.5	37
21	Wireless secrecy in large-scale networks. , 2011, , .		7
22	A mobile sensing architecture for massive urban scanning. , 2011, , .		15
23	On the Delay Distribution of Random Linear Network Coding. IEEE Journal on Selected Areas in Communications, 2011, 29, 1084-1093.	9.7	58
24	Coding for Cryptographic Security Enhancement Using Stopping Sets. IEEE Transactions on Information Forensics and Security, 2011, 6, 575-584.	4.5	29
25	Network Coding Meets TCP: Theory and Implementation. Proceedings of the IEEE, 2011, 99, 490-512.	16.4	205
26	Impact of Vehicles as Obstacles in Vehicular Ad Hoc Networks. IEEE Journal on Selected Areas in Communications, 2011, 29, 15-28.	9.7	288
27	Wireless Secrecy Regions With Friendly Jamming. IEEE Transactions on Information Forensics and Security, 2011, 6, 256-266.	4.5	141
28	Modeling Network Coded TCP Throughput: A Simple Model and its Validation. , 2011, , .		34
29	Trusted Storage over Untrusted Networks. , 2010, , .		20
30	Secure network coding for multi-resolution wireless video streaming. IEEE Journal on Selected Areas in Communications, 2010, 28, 377-388.	9.7	33
31	Stopping sets for physical-layer security. , 2010, , .		10
32	Techniques for Enhanced Physical-Layer Security. , 2010, , .		9
33	Network coding delay: A brute-force analysis. , 2010, , .		5
34	Non-Asymptotic Analysis of Network Coding Delay. , 2010, , .		6
35	Experimental study on the impact of vehicular obstructions in VANETs. , 2010, , .		144
36	Wireless physical-layer security: The case of colluding eavesdroppers. , 2009, , .		59

#	ARTICLE	IF	CITATIONS
37	Towards secure multiresolution network coding. , 2009, , .		5
38	Unicast communication in vehicular ad hoc networks: a reality check. IEEE Communications Letters, 2009, 13, 995-997.	2.5	27
39	A Network Coding Approach to Secret Key Distribution. IEEE Transactions on Information Forensics and Security, 2008, 3, 414-423.	4.5	42
40	Wireless Information-Theoretic Security. IEEE Transactions on Information Theory, 2008, 54, 2515-2534.	1.5	1,522
41	Counteracting Byzantine adversaries with network coding: An overhead analysis. , 2008, , .		5
42	An information-theoretic cryptanalysis of network coding - is protecting the code enough?. , 2008, , .		21
43	Physical-layer security in stochastic wireless networks. , 2008, , .		53
44	Informed network coding for minimum decoding delay. , 2008, , .		35
45	Random Linear Network Coding: A free cipher?. , 2007, , .		97
46	Network Coding Protocols for Secret Key Distribution. , 2007, , 1718-1733.		4
47	Secrecy Capacity of Wireless Channels. , 2006, , .		617
48	LDPC-Based Secure Wireless Communication with Imperfect Knowledge of the Eavesdropper's Channel. , 2006, , .		1