

Joao P Gomes

List of Publications by Year in descending order

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46
papers

557
citations

1163117

8
h-index

1058476

14
g-index

46
all docs

46
docs citations

46
times ranked

500
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive spatial combining for passive time-reversed communications. Journal of the Acoustical Society of America, 2008, 124, 1038-1053.	1.1	99
2	Simple and Fast Convex Relaxation Method for Cooperative Localization in Sensor Networks Using Range Measurements. IEEE Transactions on Signal Processing, 2015, 63, 4532-4543.	5.3	64
3	Robust Localization of Nodes and Time-Recursive Tracking in Sensor Networks Using Noisy Range Measurements. IEEE Transactions on Signal Processing, 2011, 59, 3930-3942.	5.3	58
4	Widely Scalable Mobile Underwater Sonar Technology: An Overview of the H2020 WiMUST Project. Marine Technology Society Journal, 2016, 50, 42-53.	0.4	25
5	Study of pilot designs for cyclic-prefix OFDM on time-varying and sparse underwater acoustic channels. , 2011, , .		23
6	Network observability and localization of the source of diffusion based on a subset of nodes. , 2013, , .		19
7	An Angular Approach for Range-Based Approximate Maximum Likelihood Source Localization Through Convex Relaxation. IEEE Transactions on Wireless Communications, 2014, 13, 3951-3964.	9.2	19
8	A super-exponential algorithm for blind fractionally spaced equalization. IEEE Signal Processing Letters, 1996, 3, 283-285.	3.6	18
9	Cooperative formation control in the scope of the EC MORPH project: Theory and experiments. , 2015, , .		18
10	Target Tracking with Sensor Navigation Using Coupled RSS and AoA Measurements. Sensors, 2017, 17, 2690.	3.8	18
11	LocDyn: Robust Distributed Localization for Mobile Underwater Networks. IEEE Journal of Oceanic Engineering, 2017, 42, 1063-1074.	3.8	13
12	Joint Passive Time Reversal and Multichannel Equalization for Underwater Communications. , 2006, , .		12
13	OFDM demodulation in underwater time-reversed shortened channels. , 2008, , .		11
14	A convex relaxation for approximate maximum-likelihood 2D source localization from range measurements. , 2010, , .		11
15	A unified approach for hybrid source localization based on ranges and video. , 2015, , .		11
16	Development and validation of blue ray, an optical modem for the MEDUSA class AUVs. , 2016, , .		11
17	Sea-trial results for cyclic-prefix OFDM with long symbol duration. , 2011, , .		10
18	Collaborative localization of vehicle formations based on ranges and bearings. , 2016, , .		9

#	ARTICLE	IF	CITATIONS
19	Source localization from time-differences of arrival using high-frequency communication signals. , 2011, , .		8
20	Building location awareness into acoustic communication links and networks through channel delay estimation. , 2012, , .		8
21	FLORIS and CLORIS: Hybrid source and network localization based on ranges and video. Signal Processing, 2018, 153, 355-367.	3.7	8
22	An annotated dataset of bioacoustic sensing and features of mosquitoes. Scientific Data, 2020, 7, 382.	5.3	8
23	STRONG: Synchronous and asynchronous robust network localization, under non-Gaussian noise. Signal Processing, 2021, 185, 108066.	3.7	8
24	Array-Based QR-RLS Multichannel Lattice Filtering. IEEE Transactions on Signal Processing, 2008, 56, 3510-3522.	5.3	7
25	Distributed, simple and stable network localization. , 2014, , .		7
26	Joint localization of underwater vehicle formations based on range difference measurements. , 2014, , .		7
27	Geophysical Surveying with Marine Networked Mobile Robotic Systems. , 2014, , .		7
28	Sequential observer selection for source localization. , 2015, , .		7
29	TW-TOA based cooperative sensor network localization with unknown turn-around time. , 2013, , .		5
30	Extending the metric dimension to graphs with missing edges. Theoretical Computer Science, 2016, 609, 384-394.	0.9	5
31	Environmental equalizer for underwater communications. , 2007, , .		4
32	Selecting observers for source localization via error exponents. , 2015, , .		4
33	A Study of Modulation Formats for the Blue Ray Underwater Optical Modem. , 2018, , .		4
34	Identification and matching of sparse Delay-Doppler Spread Functions from high-frequency communications signals. , 2010, , .		3
35	Sparse channel estimation and equalization for underwater filtered multitone. , 2015, , .		3
36	Range and Bearing Data Fusion for Precise Convex Network Localization. IEEE Signal Processing Letters, 2020, 27, 670-674.	3.6	2

#	ARTICLE	IF	CITATIONS
37	Wavefront segmentation and classification for model-based underwater high-frequency tomography. , 2012, , .		1
38	Rss based cooperative sensor network localization with unknown transmit power. , 2013, , .		1
39	Network observability for source localization in graphs with unobserved edges. , 2014, , .		1
40	Performance Analysis of Multichannel Lattice Equalization in Coherent Underwater Communications. , 2007, , .		0
41	Collaborative sequential-based detection in wireless sensor networks. , 2011, , .		0
42	Probe timing optimization for time-reversal underwater communications. , 2011, , .		0
43	Implementation of a network of mobile sensors for air quality monitoring. , 2012, , .		0
44	Performance analysis of model-based localization of high-frequency acoustic sources in 3D. , 2013, , .		0
45	Fast distributed MAP inference for large-scale graphical models. , 2019, , .		0
46	An Interference Cancellation Approach for MIMO Orthogonal Signal-Division Multiplexing in Time-Varying Channels. , 2019, , .		0