

Marius Pesavento

List of Publications by Year in descending order

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71
papers

1,243
citations

393982

19
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all docs

73
docs citations

73
times ranked

1139
citing authors

#	ARTICLE	IF	CITATIONS
1	Air-Coupled Ultrasonic Spiral Phased Array for High-Precision Beamforming and Imaging. IEEE Open Journal of Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 2, 40-54.	0.9	15
2	Partially Relaxed Orthogonal Least Squares Weighted Subspace Fitting Direction-of-Arrival Estimation. , 2022, , .		1
3	Probability of Resolution of MUSIC and g-MUSIC: An Asymptotic Approach. IEEE Transactions on Signal Processing, 2022, 70, 3566-3581.	3.2	7
4	Probability of Resolution of Partially Relaxed Deterministic Maximum Likelihood: An Asymptotic Approach. IEEE Transactions on Signal Processing, 2021, 69, 852-866.	3.2	5
5	Real-Time 3-D Imaging Using an Air-Coupled Ultrasonic Phased-Array. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 796-806.	1.7	41
6	A Parallel Algorithm for Phase Retrieval with Dictionary Learning. , 2021, , .		3
7	Probability of Resolution of G-MUSIC: An Asymptotic Approach. , 2021, , .		1
8	A Partially-Relaxed Robust DOA Estimator Under Non-Gaussian Low-Rank Interference and Noise. , 2021, , .		1
9	Decentralized Eigendecomposition for Online Learning over Graphs. , 2021, , .		1
10	Partially Relaxed Fourier Domain Direction of Arrival Estimation. , 2021, , .		0
11	Semi-blind Sparse Channel Estimation and Data Detection by Successive Convex Approximation. , 2020, , .		0
12	Robust Hybrid Precoding For Interference Exploitation in Massive MIMO Systems. , 2020, , .		0
13	Spiral Air-Coupled Ultrasonic Phased Array for High Resolution 3D Imaging. , 2020, , .		6
14	Asymptotic Stochastic Analysis of Partially Relaxed DML. , 2020, , .		3
15	Cram�r-Rao Bound for DOA Estimators Under the Partial Relaxation Framework: Derivation and Comparison. IEEE Transactions on Signal Processing, 2020, 68, 3194-3208.	3.2	6
16	GPU-accelerated parallel optimization for sparse regularization. , 2020, , .		1
17	Interference Exploitation-Based Hybrid Precoding With Robustness Against Channel Errors. , 2020, , .		0
18	Inexact Block Coordinate Descent Algorithms for Nonsmooth Nonconvex Optimization. IEEE Transactions on Signal Processing, 2020, 68, 947-961.	3.2	39

#	ARTICLE	IF	CITATIONS
19	Dictionary-Based Learning for 3D-Imaging with Air-Coupled Ultrasonic Phased Arrays. , 2020, , .		3
20	Embedded Air-Coupled Ultrasonic 3D Sonar System with GPU Acceleration. , 2020, , .		10
21	Coordinated Hybrid Precoding for Interference Exploitation in Heterogeneous Networks. IEEE Communications Letters, 2019, 23, 2109-2113.	2.5	3
22	Introduction to the Special Issue on Array Signal Processing for Angular Models in Massive MIMO Communications. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 882-885.	7.3	9
23	Energy Efficiency Optimization in MIMO Interference Channels: A Successive Pseudoconvex Approximation Approach. IEEE Transactions on Signal Processing, 2019, 67, 4107-4121.	3.2	12
24	Interference Exploitation-Based Hybrid Precoding With Robustness Against Phase Errors. IEEE Transactions on Wireless Communications, 2019, 18, 3683-3696.	6.1	10
25	Interference Exploitation-Based Hybrid Precoding with Low-Resolution DACs. , 2019, , .		0
26	Block Successive Convex Approximation Algorithms for Nonsmooth Nonconvex Optimization. , 2019, , .		3
27	A parallel sparse regularization method for structured multilinear low-rank tensor decomposition. , 2019, , .		2
28	Full Covariance Fitting DoA Estimation Using Partial Relaxation Framework. , 2019, , .		2
29	Probability of Resolution of Partially Relaxed DML an Asymptotic Approach. , 2019, , .		4
30	Iterative marginal maximum likelihood DOD and DOA estimation for MIMO radar in the presence of SIRP clutter. Signal Processing, 2019, 155, 384-390.	2.1	5
31	A Compact Formulation for the $\ell_{2,1}$ Mixed-Norm Minimization Problem. IEEE Transactions on Signal Processing, 2018, 66, 1483-1497.	3.2	37
32	Block- and Rank-Sparse Recovery for Direction Finding in Partly Calibrated Arrays. IEEE Transactions on Signal Processing, 2018, 66, 384-399.	3.2	18
33	Parallel multi-wavelength calibration algorithm for radio astronomical arrays. Signal Processing, 2018, 145, 258-271.	2.1	15
34	Optimized Small Cell Range Expansion in Mobile Communication Networks using Multi-Class Support Vector Machines. , 2018, , .		1
35	An Improved Doa Estimator Based on Partial Relaxation Approach. , 2018, , .		11
36	A Parallel Best-Response Algorithm with Exact Line Search for Nonconvex Sparsity-Regularized Rank Minimization. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
37	Partial Relaxation Approach: An Eigenvalue-Based DOA Estimator Framework. IEEE Transactions on Signal Processing, 2018, 66, 6190-6203.	3.2	35
38	Successive Convex Approximation Algorithms for Sparse Signal Estimation With Nonconvex Regularizations. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1286-1302.	7.3	22
39	Activity Scheduling for Energy Harvesting Small Cells in 5G Wireless Communication Networks. , 2018, , .		0
40	Successive Convex Approximation Algorithms for Sparse Signal Estimation with Nonconvex Regularizations. , 2018, , .		2
41	Non-Coherent Direction-of-Arrival Estimation Using Partly Calibrated Arrays. IEEE Transactions on Signal Processing, 2018, , 1-1.	3.2	28
42	Analog Beamformer Design for Interference Exploitation Based Hybrid Beamforming. , 2018, , .		17
43	Joint User Selection and Hybrid Analog-Digital Beamforming in Massive MIMO Systems. , 2018, , .		5
44	Optimized Cell Planning for Network Slicing in Heterogeneous Wireless Communication Networks. IEEE Communications Letters, 2018, 22, 1676-1679.	2.5	35
45	MIMO radar target localization and performance evaluation under SIRP clutter. Signal Processing, 2017, 130, 217-232.	2.1	29
46	Transmit Precoding for Interference Exploitation in the Underlay Cognitive Radio Z-channel. IEEE Transactions on Signal Processing, 2017, 65, 3617-3631.	3.2	22
47	A Unified Successive Pseudoconvex Approximation Framework. IEEE Transactions on Signal Processing, 2017, 65, 3313-3328.	3.2	74
48	Robust Calibration of Radio Interferometers in Non-Gaussian Environment. IEEE Transactions on Signal Processing, 2017, 65, 5649-5660.	3.2	21
49	Gridless compressed sensing under shift-invariant sampling. , 2017, , .		5
50	Hybrid beamforming for large-scale MIMO systems using uplink-downlink duality. , 2017, , .		10
51	Power efficiency of improper signaling in MIMO full-duplex relaying for K-user interference networks. , 2017, , .		8
52	A compact formulation for the l21 mixed-norm minimization problem. , 2017, , .		5
53	Gridless compressed sensing for fully augmentable arrays. , 2017, , .		4
54	Securing Relay Networks with Artificial Noise: An Error Performance-Based Approach. Entropy, 2017, 19, 384.	1.1	14

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55	Centralized coordinated scheduling in LTE-Advanced networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2017, 2017, .	1.5	14
56	Improved DOA estimators using partial relaxation approach. , 2017, , .		6
57	Optimal resource block allocation and muting in heterogeneous networks. , 2016, , .		10
58	Multidimensional sparse recovery for MIMO channel parameter estimation. , 2016, , .		12
59	Performance Analysis of the Decentralized Eigendecomposition and ESPRIT Algorithm. <i>IEEE Transactions on Signal Processing</i> , 2016, 64, 2375-2386.	3.2	46
60	A Parallel Decomposition Method for Nonconvex Stochastic Multi-Agent Optimization Problems. <i>IEEE Transactions on Signal Processing</i> , 2016, 64, 2949-2964.	3.2	67
61	Rank-Two Beamforming and Power Allocation in Multicasting Relay Networks. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 3435-3447.	3.2	14
62	Joint Discrete Rate Adaptation and Downlink Beamforming Using Mixed Integer Conic Programming. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 1750-1764.	3.2	14
63	General Rank Multiuser Downlink Beamforming With Shaping Constraints Using Real-Valued OSTBC. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 5758-5771.	3.2	18
64	Subspace Methods and Exploitation of Special Array Structures. <i>Academic Press Library in Signal Processing</i> , 2014, 3, 651-717.	0.8	38
65	Robust Downlink Beamforming With Partial Channel State Information for Conventional and Cognitive Radio Networks. <i>IEEE Transactions on Signal Processing</i> , 2013, 61, 3656-3670.	3.2	36
66	Maximally Robust Capon Beamformer. <i>IEEE Transactions on Signal Processing</i> , 2013, 61, 2030-2041.	3.2	29
67	Non-coherent distributed space-time coding techniques for two-way wireless relay networks. <i>Signal Processing</i> , 2013, 93, 3371-3381.	2.1	10
68	Joint Network Optimization and Downlink Beamforming for CoMP Transmissions Using Mixed Integer Conic Programming. <i>IEEE Transactions on Signal Processing</i> , 2013, 61, 3972-3987.	3.2	111
69	Joint Optimization of Source Power Allocation and Distributed Relay Beamforming in Multiuser Peer-to-Peer Relay Networks. <i>IEEE Transactions on Signal Processing</i> , 2012, 60, 2962-2973.	3.2	97
70	Downlink Opportunistic Scheduling with Low-Rate Channel State Feedback: Error Rate Analysis and Optimization of the Feedback Parameters. <i>IEEE Transactions on Communications</i> , 2010, 58, 2871-2880.	4.9	14
71	One- and two-dimensional direction-of-arrival estimation: An overview of search-free techniques. <i>Signal Processing</i> , 2010, 90, 1338-1349.	2.1	87