

# Marius Pesavento

## List of Publications by Year in descending order

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71  
papers

1,243  
citations

393982

19  
h-index

395343

33  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1139  
citing authors

#	ARTICLE	IF	CITATIONS
1	Joint Network Optimization and Downlink Beamforming for CoMP Transmissions Using Mixed Integer Conic Programming. IEEE Transactions on Signal Processing, 2013, 61, 3972-3987.	3.2	111
2	Joint Optimization of Source Power Allocation and Distributed Relay Beamforming in Multiuser Peer-to-Peer Relay Networks. IEEE Transactions on Signal Processing, 2012, 60, 2962-2973.	3.2	97
3	One- and two-dimensional direction-of-arrival estimation: An overview of search-free techniques. Signal Processing, 2010, 90, 1338-1349.	2.1	87
4	A Unified Successive Pseudoconvex Approximation Framework. IEEE Transactions on Signal Processing, 2017, 65, 3313-3328.	3.2	74
5	A Parallel Decomposition Method for Nonconvex Stochastic Multi-Agent Optimization Problems. IEEE Transactions on Signal Processing, 2016, 64, 2949-2964.	3.2	67
6	Performance Analysis of the Decentralized Eigendecomposition and ESPRIT Algorithm. IEEE Transactions on Signal Processing, 2016, 64, 2375-2386.	3.2	46
7	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
8	Inexact Block Coordinate Descent Algorithms for Nonsmooth Nonconvex Optimization. IEEE Transactions on Signal Processing, 2020, 68, 947-961.	3.2	39
9	Subspace Methods and Exploitation of Special Array Structures. Academic Press Library in Signal Processing, 2014, 3, 651-717.	0.8	38
10	A Compact Formulation for the $\ell_{2,1}$ Mixed-Norm Minimization Problem. IEEE Transactions on Signal Processing, 2018, 66, 1483-1497.	3.2	37
11	Robust Downlink Beamforming With Partial Channel State Information for Conventional and Cognitive Radio Networks. IEEE Transactions on Signal Processing, 2013, 61, 3656-3670.	3.2	36
12	Partial Relaxation Approach: An Eigenvalue-Based DOA Estimator Framework. IEEE Transactions on Signal Processing, 2018, 66, 6190-6203.	3.2	35
13	Optimized Cell Planning for Network Slicing in Heterogeneous Wireless Communication Networks. IEEE Communications Letters, 2018, 22, 1676-1679.	2.5	35
14	Maximally Robust Capon Beamformer. IEEE Transactions on Signal Processing, 2013, 61, 2030-2041.	3.2	29
15	MIMO radar target localization and performance evaluation under SIRP clutter. Signal Processing, 2017, 130, 217-232.	2.1	29
16	Non-Coherent Direction-of-Arrival Estimation Using Partly Calibrated Arrays. IEEE Transactions on Signal Processing, 2018, , 1-1.	3.2	28
17	Transmit Precoding for Interference Exploitation in the Underlay Cognitive Radio Z-channel. IEEE Transactions on Signal Processing, 2017, 65, 3617-3631.	3.2	22
18	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

#	ARTICLE	IF	CITATIONS
19	Robust Calibration of Radio Interferometers in Non-Gaussian Environment. IEEE Transactions on Signal Processing, 2017, 65, 5649-5660.	3.2	21
20	General Rank Multiuser Downlink Beamforming With Shaping Constraints Using Real-Valued OSTBC. IEEE Transactions on Signal Processing, 2015, 63, 5758-5771.	3.2	18
21	Block- and Rank-Sparse Recovery for Direction Finding in Partly Calibrated Arrays. IEEE Transactions on Signal Processing, 2018, 66, 384-399.	3.2	18
22	Analog Beamformer Design for Interference Exploitation Based Hybrid Beamforming. , 2018, , .		17
23	Parallel multi-wavelength calibration algorithm for radio astronomical arrays. Signal Processing, 2018, 145, 258-271.	2.1	15
24	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
25	Downlink Opportunistic Scheduling with Low-Rate Channel State Feedback: Error Rate Analysis and Optimization of the Feedback Parameters. IEEE Transactions on Communications, 2010, 58, 2871-2880.	4.9	14
26	Rank-Two Beamforming and Power Allocation in Multicasting Relay Networks. IEEE Transactions on Signal Processing, 2015, 63, 3435-3447.	3.2	14
27	Joint Discrete Rate Adaptation and Downlink Beamforming Using Mixed Integer Conic Programming. IEEE Transactions on Signal Processing, 2015, 63, 1750-1764.	3.2	14
28	Securing Relay Networks with Artificial Noise: An Error Performance-Based Approach. Entropy, 2017, 19, 384.	1.1	14
29	Centralized coordinated scheduling in LTE-Advanced networks. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	1.5	14
30	Multidimensional sparse recovery for MIMO channel parameter estimation. , 2016, , .		12
31	Energy Efficiency Optimization in MIMO Interference Channels: A Successive Pseudoconvex Approximation Approach. IEEE Transactions on Signal Processing, 2019, 67, 4107-4121.	3.2	12
32	An Improved Doa Estimator Based on Partial Relaxation Approach. , 2018, , .		11
33	Non-coherent distributed space-time coding techniques for two-way wireless relay networks. Signal Processing, 2013, 93, 3371-3381.	2.1	10
34	Optimal resource block allocation and muting in heterogeneous networks. , 2016, , .		10
35	Hybrid beamforming for large-scale MIMO systems using uplink-downlink duality. , 2017, , .		10
36	Interference Exploitation-Based Hybrid Precoding With Robustness Against Phase Errors. IEEE Transactions on Wireless Communications, 2019, 18, 3683-3696.	6.1	10

#	ARTICLE	IF	CITATIONS
37	Embedded Air-Coupled Ultrasonic 3D Sonar System with GPU Acceleration. , 2020, , .		10
38	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
39	Power efficiency of improper signaling in MIMO full-duplex relaying for K-user interference networks. , 2017, , .		8
40	Probability of Resolution of MUSIC and g-MUSIC: An Asymptotic Approach. IEEE Transactions on Signal Processing, 2022, 70, 3566-3581.	3.2	7
41	Improved DOA estimators using partial relaxation approach. , 2017, , .		6
42	Spiral Air-Coupled Ultrasonic Phased Array for High Resolution 3D Imaging. , 2020, , .		6
43	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
44	Gridless compressed sensing under shift-invariant sampling. , 2017, , .		5
45	A compact formulation for the l21 mixed-norm minimization problem. , 2017, , .		5
46	Joint User Selection and Hybrid Analog-Digital Beamforming in Massive MIMO Systems. , 2018, , .		5
47	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
48	Probability of Resolution of Partially Relaxed Deterministic Maximum Likelihood: An Asymptotic Approach. IEEE Transactions on Signal Processing, 2021, 69, 852-866.	3.2	5
49	Gridless compressed sensing for fully augmentable arrays. , 2017, , .		4
50	A Parallel Best-Response Algorithm with Exact Line Search for Nonconvex Sparsity-Regularized Rank Minimization. , 2018, , .		4
51	Probability of Resolution of Partially Relaxed DML an Asymptotic Approach. , 2019, , .		4
52	Coordinated Hybrid Precoding for Interference Exploitation in Heterogeneous Networks. IEEE Communications Letters, 2019, 23, 2109-2113.	2.5	3
53	Block Successive Convex Approximation Algorithms for Nonsmooth Nonconvex Optimization. , 2019, , .		3
54	Asymptotic Stochastic Analysis of Partially Relaxed DML. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
55	A Parallel Algorithm for Phase Retrieval with Dictionary Learning. , 2021, , .		3
56	Dictionary-Based Learning for 3D-Imaging with Air-Coupled Ultrasonic Phased Arrays. , 2020, , .		3
57	Successive Convex Approximation Algorithms for Sparse Signal Estimation with Nonconvex Regularizations. , 2018, , .		2
58	A parallel sparse regularization method for structured multilinear low-rank tensor decomposition. , 2019, , .		2
59	Full Covariance Fitting DoA Estimation Using Partial Relaxation Framework. , 2019, , .		2
60	Optimized Small Cell Range Expansion in Mobile Communication Networks using Multi-Class Support Vector Machines. , 2018, , .		1
61	GPU-accelerated parallel optimization for sparse regularization. , 2020, , .		1
62	Probability of Resolution of G-MUSIC: An Asymptotic Approach. , 2021, , .		1
63	A Partially-Relaxed Robust DOA Estimator Under Non-Gaussian Low-Rank Interference and Noise. , 2021, , .		1
64	Decentralized Eigendecomposition for Online Learning over Graphs. , 2021, , .		1
65	Partially Relaxed Orthogonal Least Squares Weighted Subspace Fitting Direction-of-Arrival Estimation. , 2022, , .		1
66	Activity Scheduling for Energy Harvesting Small Cells in 5G Wireless Communication Networks. , 2018, , .		0
67	Interference Exploitation-Based Hybrid Precoding with Low-Resolution DACs. , 2019, , .		0
68	Semi-blind Sparse Channel Estimation and Data Detection by Successive Convex Approximation. , 2020, , .		0
69	Robust Hybrid Precoding For Interference Exploitation in Massive MIMO Systems. , 2020, , .		0
70	Interference Exploitation-Based Hybrid Precoding With Robustness Against Channel Errors. , 2020, , .		0
71	Partially Relaxed Fourier Domain Direction of Arrival Estimation. , 2021, , .		0