

Esa Ollila

List of Publications by Year in descending order

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55
papers

1,118
citations

758635

12
h-index

676716

22
g-index

55
all docs

55
docs citations

55
times ranked

582
citing authors

#	ARTICLE	IF	CITATIONS
1	Bias Adjusted Sign Covariance Matrix. IEEE Signal Processing Letters, 2022, 29, 339-343.	2.1	2
2	Linear Pooling of Sample Covariance Matrices. IEEE Transactions on Signal Processing, 2022, 70, 659-672.	3.2	4
3	Regularized Tapered Sample Covariance Matrix. IEEE Transactions on Signal Processing, 2022, 70, 2306-2320.	3.2	4
4	Multimodal image fusion via coupled feature learning. Signal Processing, 2022, 200, 108637.	2.1	23
5	Graph Signal Processing Meets Blind Source Separation. IEEE Transactions on Signal Processing, 2021, 69, 2585-2599.	3.2	16
6	Modelling and studying the effect of graph errors in graph signal processing. Signal Processing, 2021, 189, 108256.	2.1	4
7	Coupled Regularized Sample Covariance Matrix Estimator for Multiple Classes. IEEE Transactions on Signal Processing, 2021, 69, 5681-5692.	3.2	5
8	On the Variability of the Sample Covariance Matrix Under Complex Elliptical Distributions. IEEE Signal Processing Letters, 2021, 28, 2092-2096.	2.1	4
9	Data-Adaptive Similarity Measures for B-mode Ultrasound Images Using Robust Noise Models. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1244-1254.	7.3	1
10	M-Estimators of Scatter with Eigenvalue Shrinkage. , 2020, , .		1
11	Shrinking the eigenvalues of M-estimators of covariance matrix. IEEE Transactions on Signal Processing, 2020, , 1-1.	3.2	20
12	A Compressive Classification Framework for High-Dimensional Data. IEEE Open Journal of Signal Processing, 2020, 1, 177-186.	2.3	0
13	Blind Source Separation of Graph Signals. , 2020, , .		8
14	Optimal Shrinkage Covariance Matrix Estimation Under Random Sampling From Elliptical Distributions. IEEE Transactions on Signal Processing, 2019, 67, 2707-2719.	3.2	30
15	Fusing Eigenvalues. , 2019, , .		1
16	Robust Least Mean Squares Estimation of Graph Signals. , 2019, , .		2
17	Simultaneous Signal Subspace Rank and Model Selection with an Application to Single-snapshot Source Localization. , 2018, , .		0
18	Compressive Regularized Discriminant Analysis of High-Dimensional Data with Applications to Microarray Studies. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	Optimal Pooling of Covariance Matrix Estimates Across Multiple Classes. , 2018, , .		2
20	Graph Error Effect in Graph Signal Processing. , 2018, , .		6
21	Sequential adaptive elastic net approach for single-snapshot source localization. Journal of the Acoustical Society of America, 2018, 143, 3873-3882.	0.5	5
22	Alternative Derivation of FastICA With Novel Power Iteration Algorithm. IEEE Signal Processing Letters, 2017, 24, 1378-1382.	2.1	9
23	Scaled and square-root elastic net. , 2017, , .		3
24	Optimal high-dimensional shrinkage covariance estimation for elliptical distributions. , 2017, , .		5
25	Pathwise least angle regression and a significance test for the elastic net. , 2017, , .		6
26	Adaptive LASSO based on joint M-estimation of regression and scale. , 2016, , .		4
27	Single-snapshot DoA estimation using adaptive elastic net in the complex domain. , 2016, , .		3
28	Direction of arrival estimation using robust complex Lasso. , 2016, , .		6
29	Robust, Scalable, and Fast Bootstrap Method for Analyzing Large Scale Data. IEEE Transactions on Signal Processing, 2016, 64, 1007-1017.	3.2	40
30	Multichannel sparse recovery of complex-valued signals using Huber's criterion. , 2015, , .		9
31	Randomized simultaneous orthogonal matching pursuit. , 2015, , .		0
32	Nonparametric simultaneous sparse recovery: An application to source localization. , 2015, , .		2
33	New robust LASSO method based on ranks. , 2015, , .		8
34	Fast and robust bootstrap in analysing large multivariate datasets. , 2014, , .		3
35	Regularized $\hat{\Sigma}$ -Estimators of Scatter Matrix. IEEE Transactions on Signal Processing, 2014, 62, 6059-6070.	3.2	92
36	Robust iterative hard thresholding for compressed sensing. , 2014, , .		13

#	ARTICLE	IF	CITATIONS
37	Fast and robust bootstrap method for testing hypotheses in the ICA model. , 2014, , .		3
38	Robust iteratively reweighted Lasso for sparse tensor factorizations. , 2014, , .		2
39	Sparse regularization of tensor decompositions. , 2013, , .		7
40	Robust and sparse estimation of tensor decompositions. , 2013, , .		4
41	Distribution-free detection under complex elliptically symmetric clutter distribution. , 2012, , .		23
42	Compound-Gaussian Clutter Modeling With an Inverse Gaussian Texture Distribution. IEEE Signal Processing Letters, 2012, 19, 876-879.	2.1	101
43	Complex Elliptically Symmetric Distributions: Survey, New Results and Applications. IEEE Transactions on Signal Processing, 2012, 60, 5597-5625.	3.2	336
44	On testing hypotheses of mixing vectors in the ICA model using fastica. , 2011, , .		3
45	On Testing the Extent of Noncircularity. IEEE Transactions on Signal Processing, 2011, 59, 5632-5637.	3.2	6
46	Complex Elliptically Symmetric Random Variablesâ€™ Generation, Characterization, and Circularity Tests. IEEE Transactions on Signal Processing, 2011, 59, 58-69.	3.2	70
47	Complex-valued signal processing — essential models, tools and statistics. , 2011, , .		8
48	On the performance indices of ICA and blind source separation. , 2011, , .		25
49	A robust estimator and detector of circularity of complex signals. , 2011, , .		8
50	The Deflation-Based FastICA Estimator: Statistical Analysis Revisited. IEEE Transactions on Signal Processing, 2010, 58, 1527-1541.	3.2	48
51	A New Performance Index for ICA: Properties, Computation and Asymptotic Analysis. Lecture Notes in Computer Science, 2010, , 229-236.	1.0	44
52	On the robustness of the deflation-based FastICA estimator. , 2009, , .		6
53	Statistics for complex random variables revisited. , 2009, , .		27
54	Compact CramÃ©râ€™s Rao Bound Expression for Independent Component Analysis. IEEE Transactions on Signal Processing, 2008, 56, 1421-1428.	3.2	29

#	ARTICLE	IF	CITATIONS
55	Sign and Rank Covariance Matrices: Statistical Properties and Application to Principal Components Analysis. , 2002, , 257-269.		24