

Andreas Jakobsson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3428080/publications.pdf>

Version: 2024-02-01

134
papers

1,866
citations

304368

22
h-index

329751

37
g-index

135
all docs

135
docs citations

135
times ranked

1023
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Complexity Uncertainty-Set-Based Robust Adaptive Beamforming for Passive Sonar. IEEE Journal of Oceanic Engineering, 2024, , 1-17.	2.1	6
2	Online Sparse Reconstruction for Scanning Radar Using Beam-Updating SPICE. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	5
3	High-resolution source localization exploiting the sparsity of the beamforming map. Signal Processing, 2022, 192, 108377.	2.1	7
4	Online Sparse DOA Estimation Based on Sub-Aperture Recursive LASSO for TDM-MIMO Radar. Remote Sensing, 2022, 14, 2133.	1.8	11
5	Determining Joint Periodicities in Multi-Time Data with Sampling Uncertainties. , 2022, , .		0
6	Adaptive Variational Nonlinear Chirp Mode Decomposition. , 2022, , .		3
7	Multitarget Detection Strategy for Distributed MIMO Radar With Widely Separated Antennas. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	10
8	Toeplitz-based blind deconvolution of underwater acoustic channels using wideband integrated dictionaries. Signal Processing, 2021, 179, 107812.	2.1	3
9	Optimal Microphone Placement for Localizing Tonal Sound Sources. , 2021, , .		1
10	Range-based Radar Model Structure Selection. , 2021, , .		0
11	Underwater source localization in the presence of strong interference. IET Radar, Sonar and Navigation, 2021, 15, 226-239.	0.9	1
12	Estimating nonlinear chirp modes exploiting sparsity. Signal Processing, 2021, 183, 107952.	2.1	13
13	Rapid measurement of heteronuclear transverse relaxation rates using non-uniformly sampled ^1H and ^{13}C accordion experiments. Magnetic Resonance, 2021, 2, 571-587.		1
14	Monostatic MIMO radar direction finding in impulse noise. , 2021, 117, 103198.		9
15	Direction of Arrival Estimation using the Generalized SPICE Criterion. , 2021, , .		1
16	Robust Fundamental Frequency Estimation in Coloured Noise. , 2020, , .		2
17	Artificial neural networks improve early outcome prediction and risk classification in out-of-hospital cardiac arrest patients admitted to intensive care. Critical Care, 2020, 24, 474.	2.5	26
18	On Harmonic Approximations of Inharmonic Signals. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
19	Compressed Sensing for Reconstructing Coherent Multidimensional Spectra. Journal of Physical Chemistry A, 2020, 124, 1861-1866.	1.1	7
20	Multi-marginal optimal transport using partial information with applications in robust localization and sensor fusion. Signal Processing, 2020, 171, 107474.	2.1	26
21	Development and evaluation of a deep learning based artificial intelligence for automatic identification of gold fiducial markers in an MRI-only prostate radiotherapy workflow. Physics in Medicine and Biology, 2020, 65, 225011.	1.6	7
22	Defining Fundamental Frequency for Almost Harmonic Signals. IEEE Transactions on Signal Processing, 2020, 68, 6453-6466.	3.2	3
23	Artificial neural networks improve and simplify intensive care mortality prognostication: a national cohort study of 217,289 first-time intensive care unit admissions. Journal of Intensive Care, 2019, 7, 44.	1.3	41
24	Generalized Time-Updating Sparse Covariance-Based Spectral Estimation. IEEE Access, 2019, 7, 143876-143887.	2.6	12
25	Non-coherent Sensor Fusion via Entropy Regularized Optimal Mass Transport. , 2019, , .		3
26	A Sparsity-Based Passive Multistatic Detector. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 3658-3666.	2.6	11
27	Rapid NMR Relaxation Measurements Using Optimal Nonuniform Sampling of Multidimensional Accordion Data Analyzed by a Sparse Reconstruction Method. Journal of Physical Chemistry A, 2019, 123, 5718-5723.	1.1	9
28	Toeplitz-Based Underwater Acoustic Channel Blind Deconvolution. , 2019, , .		0
29	Offline Noise Reduction Using Optimal Mass Transport Induced Covariance Interpolation. , 2019, , .		4
30	Online High Resolution Stochastic Radiation Radar Imaging Using Sparse Covariance Fitting. , 2019, , .		2
31	Mismatched Estimation of Polynomially Damped Signals. , 2019, , .		2
32	Defining Graph Signal Distances Using an Optimal Mass Transport Framework. , 2019, , .		0
33	Estimation of chirp signals with time-varying amplitudes. Signal Processing, 2018, 147, 1-10.	2.1	20
34	Designing sampling schemes for multi-dimensional data. Signal Processing, 2018, 150, 1-10.	2.1	13
35	Off-Grid Fundamental Frequency Estimation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 296-303.	4.0	9
36	Generalized sparse covariance-based estimation. Signal Processing, 2018, 143, 311-319.	2.1	33

#	ARTICLE	IF	CITATIONS
37	Least Squares and Maximum Likelihood Estimation of Mixed Spectra. , 2018, , .		1
38	Estimating Faults Modes in Ball Bearing Machinery using a Sparse Reconstruction Framework*. , 2018, , .		0
39	Tracking and Sensor Fusion in Direction of Arrival Estimation Using Optimal Mass Transport. , 2018, , .		4
40	On Selecting Antenna Placements in Indoor Radio Environments. , 2018, , .		0
41	Sparse estimation of backscattered echoes from underwater object using integrated dictionaries. Journal of the Acoustical Society of America, 2018, 144, 3475-3484.	0.5	3
42	Using Optimal Mass Transport for Tracking and Interpolation of Toeplitz Covariance Matrices. , 2018, , .		2
43	The Zoomed Iterative Adaptive Approach. , 2018, , .		0
44	Fast Gridless Estimation of Damped Modes. , 2018, , .		3
45	Time-updating the Generalized Sparse Covariance-based Estimator. , 2018, , .		5
46	Hyperparameter selection for group-sparse regression: A probabilistic approach. Signal Processing, 2018, 151, 107-118.	2.1	10
47	Wideband Sparse Reconstruction for Scanning Radar. IEEE Transactions on Geoscience and Remote Sensing, 2018, , 1-14.	2.7	101
48	Interpolation and Extrapolation of Toeplitz Matrices via Optimal Mass Transport. IEEE Transactions on Signal Processing, 2018, 66, 5285-5298.	3.2	12
49	Estimating Sparse Signals Using Integrated Wideband Dictionaries. IEEE Transactions on Signal Processing, 2018, 66, 4170-4181.	3.2	12
50	Computationally Efficient Estimation of Multi-dimensional Damped Modes using Sparse Wideband Dictionaries*. , 2018, , .		2
51	Multi-dimensional sinusoidal order estimation using angles between subspaces. , 2017, 64, 17-27.		2
52	Group-sparse regression using the covariance fitting criterion. Signal Processing, 2017, 139, 116-130.	2.1	15
53	Online Estimation of Multiple Harmonic Signals. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 273-284.	4.0	9
54	Range-Recursive IAA for Scanning Radar Angular Super-Resolution. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1675-1679.	1.4	27

#	ARTICLE	IF	CITATIONS
55	Estimating sparse signals using integrated wide-band dictionaries. , 2017, , .		4
56	Harmonic minimum mean squared error filters for multichannel speech enhancement. , 2017, , .		5
57	Sparse modeling of chroma features. Signal Processing, 2017, 130, 105-117.	2.1	9
58	Using optimal transport for estimating inharmonic pitch signals. , 2017, , .		8
59	A generalization of the sparse iterative covariance-based estimator. , 2017, , .		2
60	Online group-sparse estimation using the covariance fitting criterion. , 2017, , .		0
61	Hyperparameter-selection for sparse regression: A probabilistic approach. , 2017, , .		0
62	Time-recursive multi-pitch estimation using group sparse recursive least squares. , 2016, , .		0
63	Computationally efficient estimation of multi-dimensional spectral lines. , 2016, , .		0
64	High resolution sparse estimation of exponentially decaying N-dimensional signals. Signal Processing, 2016, 128, 309-317.	2.1	23
65	Multi-pitch estimation via fast group sparse learning. , 2016, , .		1
66	Hyperparameter-free sparse regression of grouped variables. , 2016, , .		0
67	An adaptive penalty multi-pitch estimator with self-regularization. Signal Processing, 2016, 127, 56-70.	2.1	21
68	Sparse Semi-Parametric Estimation of Harmonic Chirp Signals. IEEE Transactions on Signal Processing, 2016, 64, 1798-1807.	3.2	28
69	Sparse Localization of Harmonic Audio Sources. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 117-129.	4.0	13
70	Multi-pitch estimation and tracking using Bayesian inference in block sparsity. , 2015, , .		4
71	Sparse chroma estimation for harmonic non-stationary audio. , 2015, , .		1
72	An adaptive penalty approach to multi-pitch estimation. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
73	Damage identification in concrete using impact non-linear reverberation spectroscopy. NDT and E International, 2015, 75, 15-25.	1.7	16
74	Batch-Specific Discrimination Using Nuclear Quadrupole Resonance Spectroscopy. Analytical Chemistry, 2015, 87, 3806-3811.	3.2	11
75	Multi-pitch estimation exploiting block sparsity. Signal Processing, 2015, 109, 236-247.	2.1	42
76	Sparse semi-parametric chirp estimation. , 2014, , .		1
77	Degradation of covariance reconstruction-based robust adaptive beamformers. , 2014, , .		11
78	High resolution sparse estimation of exponentially decaying signals. , 2014, , .		4
79	Smooth time-frequency estimation using covariance fitting. , 2014, , .		1
80	Joint DOA and multi-pitch estimation using block sparsity. , 2014, , .		9
81	SAR imaging via efficient implementations of sparse ML approaches. Signal Processing, 2014, 95, 15-26.	2.1	19
82	An Overview of NQR Signal Detection Algorithms. NATO Science for Peace and Security Series B: Physics and Biophysics, 2014, , 19-33.	0.2	6
83	Spatio-temporal filtering methods for enhancement and separation of speech signals. , 2013, , .		0
84	Fast LCMV-Based Methods for Fundamental Frequency Estimation. IEEE Transactions on Signal Processing, 2013, 61, 3159-3172.	3.2	21
85	Non-Parametric High-Resolution SAR Imaging. IEEE Transactions on Signal Processing, 2013, 61, 1614-1624.	3.2	35
86	Non-parametric data-dependent estimation of spectroscopic echo-train signals. , 2013, , .		1
87	Subspace-based estimation of symbolic periodicities. , 2013, , .		0
88	Efficient block and time-recursive estimation of sparse Volterra systems. , 2012, , .		3
89	Computationally Efficient Time-Recursive IAA-Based Blood Velocity Estimation. IEEE Transactions on Signal Processing, 2012, 60, 3853-3858.	3.2	20
90	Overcoming the Nyquist limit in blood flow velocity estimation. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
91	An esprit-based parameter estimator for spectroscopic data. , 2012, , .		5
92	High-resolution estimation of multidimensional spectra from unevenly sampled data. , 2011, , .		1
93	Fast algorithms for Iterative Adaptive Approach spectral estimation techniques. , 2011, , .		3
94	Efficient removal of noise and interference in multichannel quadrupole resonance. , 2011, , .		4
95	Efficient Implementation of Iterative Adaptive Approach Spectral Estimation Techniques. IEEE Transactions on Signal Processing, 2011, 59, 4154-4167.	3.2	108
96	Efficient implementation of the IAA-based Magnitude Squared Coherence estimator. , 2011, , .		2
97	Adaptive Detection of a Partly Known Signal Corrupted by Strong Interference. IEEE Signal Processing Letters, 2011, 18, 729-732.	2.1	18
98	Joint fundamental frequency and order estimation using optimal filtering. Eurasip Journal on Advances in Signal Processing, 2011, 2011, , .	1.0	20
99	Blood velocity estimation using ultrasound and spectral iterative adaptive approaches. Signal Processing, 2011, 91, 1275-1283.	2.1	37
100	Optimal Filter Designs for Separating and Enhancing Periodic Signals. IEEE Transactions on Signal Processing, 2010, 58, 5969-5983.	3.2	42
101	Spectral estimation of irregularly sampled exponentially decaying signals with applications to RF spectroscopy. Journal of Magnetic Resonance, 2010, 203, 167-176.	1.2	19
102	Coherence Spectrum Estimation From Nonuniformly Sampled Sequences. IEEE Signal Processing Letters, 2010, 17, 339-342.	2.1	20
103	Multi-Pitch Estimation. Synthesis Lectures on Speech and Audio Processing, 2009, 5, 1-160.	0.4	75
104	NQR-based explosives detection—an overview. , 2009, , .		6
105	Countering Radio Frequency Interference in Single-Sensor Quadrupole Resonance. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 62-66.	1.4	16
106	Adaptive spectral doppler estimation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 700-714.	1.7	37
107	Optimal filters for extraction and separation of periodic sources. , 2009, , .		1
108	Robust coherence spectrum estimation. , 2009, , .		3

#	ARTICLE	IF	CITATIONS
109	Spectral estimation of damped sinusoids in the case of irregularly sampled data. , 2009, , .		7
110	Sinusoidal Order Estimation Using Angles between Subspaces. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.0	43
111	Frequency-selective robust detection and estimation of polymorphic QR signals. Signal Processing, 2008, 88, 834-843.	2.1	10
112	Multi-pitch estimation. Signal Processing, 2008, 88, 972-983.	2.1	107
113	On Optimal Filter Designs for Fundamental Frequency Estimation. IEEE Signal Processing Letters, 2008, 15, 745-748.	2.1	15
114	Robust Nuclear Quadrupole Resonance Signal Detection Allowing for Amplitude Uncertainties. IEEE Transactions on Signal Processing, 2008, 56, 887-894.	3.2	21
115	Robust Detection of Stochastic Nuclear Quadrupole Resonance Signals. IEEE Transactions on Signal Processing, 2008, 56, 4221-4229.	3.2	31
116	On the reconstruction of gapped sinusoidal data. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	3
117	Robust Transmit Multiuser Beamforming Using Worst Case Performance Optimization. IEEE Vehicular Technology Conference, 2008, , .	0.2	6
118	Robust subspace-based fundamental frequency estimation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	14
119	Classification of indecent videos by low complexity repetitive motion detection. , 2008, , .		21
120	Adaptive Blood Velocity Estimation in Medical Ultrasound. , 2007, , .		6
121	The Multi-Pitch Estimation Problem: some New Solutions. , 2007, , .		7
122	Estimating and Time-Updating the 2-D Coherence Spectrum. IEEE Transactions on Signal Processing, 2007, 55, 2350-2354.	3.2	10
123	Fundamental Frequency Estimation using the Shift-Invariance Property. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	6
124	Robust Multi-Sensor Detection of Polymorphic NQR Signals. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	1
125	Sinusoidal Order Estimation using the Subspace Orthogonality and Shift-Invariance Properties. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	3
126	Using Spatial Diversity to Detect Narcotics and Explosives Using NQR Signals. IEEE Transactions on Signal Processing, 2007, 55, 4721-4726.	3.2	12

#	ARTICLE	IF	CITATIONS
127	Joint High-Resolution Fundamental Frequency and Order Estimation. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1635-1644.	3.8	71
128	Exploiting Spin Echo Decay in the Detection of Nuclear Quadrupole Resonance Signals. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 925-933.	2.7	41
129	Estimating the Two-Dimensional Coherence Function. , 2007, , .		0
130	Multi-Pitch Estimation Using Harmonic Music. , 2006, , .		19
131	On the forwardâ€“backward spatial APES. Signal Processing, 2006, 86, 710-715.	2.1	6
132	Combining Capon and APES for estimation of spectral lines. Circuits, Systems, and Signal Processing, 2000, 19, 159-169.	1.2	59
133	On the identifiability of multipath parameters. Signal Processing, 1999, 74, 327-330.	2.1	2
134	Matched-filter bank interpretation of some spectral estimators. Signal Processing, 1998, 66, 45-59.	2.1	90