

# Andreas Jakobsson

## List of Publications by Year in descending order

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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	Efficient Implementation of Iterative Adaptive Approach Spectral Estimation Techniques. IEEE Transactions on Signal Processing, 2011, 59, 4154-4167.	3.2	108
2	Multi-pitch estimation. Signal Processing, 2008, 88, 972-983.	2.1	107
3	Wideband Sparse Reconstruction for Scanning Radar. IEEE Transactions on Geoscience and Remote Sensing, 2018, , 1-14.	2.7	101
4	Matched-filter bank interpretation of some spectral estimators. Signal Processing, 1998, 66, 45-59.	2.1	90
5	Multi-Pitch Estimation. Synthesis Lectures on Speech and Audio Processing, 2009, 5, 1-160.	0.4	75
6	Joint High-Resolution Fundamental Frequency and Order Estimation. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1635-1644.	3.8	71
7	Combining Capon and APES for estimation of spectral lines. Circuits, Systems, and Signal Processing, 2000, 19, 159-169.	1.2	59
8	Sinusoidal Order Estimation Using Angles between Subspaces. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.0	43
9	Optimal Filter Designs for Separating and Enhancing Periodic Signals. IEEE Transactions on Signal Processing, 2010, 58, 5969-5983.	3.2	42
10	Multi-pitch estimation exploiting block sparsity. Signal Processing, 2015, 109, 236-247.	2.1	42
11	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
12	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
13	Adaptive spectral doppler estimation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 700-714.	1.7	37
14	Blood velocity estimation using ultrasound and spectral iterative adaptive approaches. Signal Processing, 2011, 91, 1275-1283.	2.1	37
15	Non-Parametric High-Resolution SAR Imaging. IEEE Transactions on Signal Processing, 2013, 61, 1614-1624.	3.2	35
16	Generalized sparse covariance-based estimation. Signal Processing, 2018, 143, 311-319.	2.1	33
17	Robust Detection of Stochastic Nuclear Quadrupole Resonance Signals. IEEE Transactions on Signal Processing, 2008, 56, 4221-4229.	3.2	31
18	Sparse Semi-Parametric Estimation of Harmonic Chirp Signals. IEEE Transactions on Signal Processing, 2016, 64, 1798-1807.	3.2	28

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19	Range-Recursive IAA for Scanning Radar Angular Super-Resolution. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1675-1679.	1.4	27
20	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
21	Multi-marginal optimal transport using partial information with applications in robust localization and sensor fusion. Signal Processing, 2020, 171, 107474.	2.1	26
22	High resolution sparse estimation of exponentially decaying N-dimensional signals. Signal Processing, 2016, 128, 309-317.	2.1	23
23	Robust Nuclear Quadrupole Resonance Signal Detection Allowing for Amplitude Uncertainties. IEEE Transactions on Signal Processing, 2008, 56, 887-894.	3.2	21
24	Classification of indecent videos by low complexity repetitive motion detection. , 2008, , .		21
25	Fast LCMV-Based Methods for Fundamental Frequency Estimation. IEEE Transactions on Signal Processing, 2013, 61, 3159-3172.	3.2	21
26	An adaptive penalty multi-pitch estimator with self-regularization. Signal Processing, 2016, 127, 56-70.	2.1	21
27	Coherence Spectrum Estimation From Nonuniformly Sampled Sequences. IEEE Signal Processing Letters, 2010, 17, 339-342.	2.1	20
28	Joint fundamental frequency and order estimation using optimal filtering. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.0	20
29	Computationally Efficient Time-Recursive IAA-Based Blood Velocity Estimation. IEEE Transactions on Signal Processing, 2012, 60, 3853-3858.	3.2	20
30	Estimation of chirp signals with time-varying amplitudes. Signal Processing, 2018, 147, 1-10.	2.1	20
31	Multi-Pitch Estimation Using Harmonic Music. , 2006, , .		19
32	Spectral estimation of irregularly sampled exponentially decaying signals with applications to RF spectroscopy. Journal of Magnetic Resonance, 2010, 203, 167-176.	1.2	19
33	SAR imaging via efficient implementations of sparse ML approaches. Signal Processing, 2014, 95, 15-26.	2.1	19
34	Adaptive Detection of a Partly Known Signal Corrupted by Strong Interference. IEEE Signal Processing Letters, 2011, 18, 729-732.	2.1	18
35	Countering Radio Frequency Interference in Single-Sensor Quadrupole Resonance. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 62-66.	1.4	16
36	Damage identification in concrete using impact non-linear reverberation spectroscopy. NDT and E International, 2015, 75, 15-25.	1.7	16

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37	On Optimal Filter Designs for Fundamental Frequency Estimation. IEEE Signal Processing Letters, 2008, 15, 745-748.	2.1	15
38	Group-sparse regression using the covariance fitting criterion. Signal Processing, 2017, 139, 116-130.	2.1	15
39	Robust subspace-based fundamental frequency estimation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	14
40	Sparse Localization of Harmonic Audio Sources. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 117-129.	4.0	13
41	Designing sampling schemes for multi-dimensional data. Signal Processing, 2018, 150, 1-10.	2.1	13
42	Estimating nonlinear chirp modes exploiting sparsity. Signal Processing, 2021, 183, 107952.	2.1	13
43	Using Spatial Diversity to Detect Narcotics and Explosives Using NQR Signals. IEEE Transactions on Signal Processing, 2007, 55, 4721-4726.	3.2	12
44	Interpolation and Extrapolation of Toeplitz Matrices via Optimal Mass Transport. IEEE Transactions on Signal Processing, 2018, 66, 5285-5298.	3.2	12
45	Estimating Sparse Signals Using Integrated Wideband Dictionaries. IEEE Transactions on Signal Processing, 2018, 66, 4170-4181.	3.2	12
46	Generalized Time-Updating Sparse Covariance-Based Spectral Estimation. IEEE Access, 2019, 7, 143876-143887.	2.6	12
47	Degradation of covariance reconstruction-based robust adaptive beamformers. , 2014, , .		11
48	Batch-Specific Discrimination Using Nuclear Quadrupole Resonance Spectroscopy. Analytical Chemistry, 2015, 87, 3806-3811.	3.2	11
49	A Sparsity-Based Passive Multistatic Detector. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 3658-3666.	2.6	11
50	Online Sparse DOA Estimation Based on Subâ€“Aperture Recursive LASSO for TDMâ€“MIMO Radar. Remote Sensing, 2022, 14, 2133.	1.8	11
51	Estimating and Time-Updating the 2-D Coherence Spectrum. IEEE Transactions on Signal Processing, 2007, 55, 2350-2354.	3.2	10
52	Frequency-selective robust detection and estimation of polymorphic QR signals. Signal Processing, 2008, 88, 834-843.	2.1	10
53	Hyperparameter selection for group-sparse regression: A probabilistic approach. Signal Processing, 2018, 151, 107-118.	2.1	10
54	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

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55	Joint DOA and multi-pitch estimation using block sparsity. , 2014, , .		9
56	Online Estimation of Multiple Harmonic Signals. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 273-284.	4.0	9
57	Sparse modeling of chroma features. Signal Processing, 2017, 130, 105-117.	2.1	9
58	Off-Grid Fundamental Frequency Estimation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 296-303.	4.0	9
59	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
60	Monostatic MIMO radar direction finding in impulse noise. , 2021, 117, 103198.		9
61	Using optimal transport for estimating inharmonic pitch signals. , 2017, , .		8
62	The Multi-Pitch Estimation Problem: some New Solutions. , 2007, , .		7
63	Spectral estimation of damped sinusoids in the case of irregularly sampled data. , 2009, , .		7
64	Compressed Sensing for Reconstructing Coherent Multidimensional Spectra. Journal of Physical Chemistry A, 2020, 124, 1861-1866.	1.1	7
65	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
66	High-resolution source localization exploiting the sparsity of the beamforming map. Signal Processing, 2022, 192, 108377.	2.1	7
67	On the forward&#x2014backward spatial APES. Signal Processing, 2006, 86, 710-715.	2.1	6
68	Adaptive Blood Velocity Estimation in Medical Ultrasound. , 2007, , .		6
69	Fundamental Frequency Estimation using the Shift-Invariance Property. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	6
70	Robust Transmit Multiuser Beamforming Using Worst Case Performance Optimization. IEEE Vehicular Technology Conference, 2008, , .	0.2	6
71	NQR-based explosives detection&#x2014an overview. , 2009, , .		6
72	Low-Complexity Uncertainty-Set-Based Robust Adaptive Beamforming for Passive Sonar. IEEE Journal of Oceanic Engineering, 2024, , 1-17.	2.1	6

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73	An Overview of NQR Signal Detection Algorithms. NATO Science for Peace and Security Series B: Physics and Biophysics, 2014, , 19-33.	0.2	6
74	An esprit-based parameter estimator for spectroscopic data. , 2012, , .		5
75	Harmonic minimum mean squared error filters for multichannel speech enhancement. , 2017, , .		5
76	Time-updating the Generalized Sparse Covariance-based Estimator. , 2018, , .		5
77	Online Sparse Reconstruction for Scanning Radar Using Beam-Updating <i>q</i> -SPICE. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	5
78	Efficient removal of noise and interference in multichannel quadrupole resonance. , 2011, , .		4
79	High resolution sparse estimation of exponentially decaying signals. , 2014, , .		4
80	Multi-pitch estimation and tracking using Bayesian inference in block sparsity. , 2015, , .		4
81	Estimating sparse signals using integrated wide-band dictionaries. , 2017, , .		4
82	Tracking and Sensor Fusion in Direction of Arrival Estimation Using Optimal Mass Transport. , 2018, , .		4
83	Offline Noise Reduction Using Optimal Mass Transport Induced Covariance Interpolation. , 2019, , .		4
84	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
85	On the reconstruction of gapped sinusoidal data. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	3
86	Robust coherence spectrum estimation. , 2009, , .		3
87	Fast algorithms for Iterative Adaptive Approach spectral estimation techniques. , 2011, , .		3
88	Efficient block and time-recursive estimation of sparse Volterra systems. , 2012, , .		3
89	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
90	Fast Gridless Estimation of Damped Modes. , 2018, , .		3

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91	Non-coherent Sensor Fusion via Entropy Regularized Optimal Mass Transport. , 2019, , .		3
92	On Harmonic Approximations of Inharmonic Signals. , 2020, , .		3
93	Toeplitz-based blind deconvolution of underwater acoustic channels using wideband integrated dictionaries. Signal Processing, 2021, 179, 107812.	2.1	3
94	Defining Fundamental Frequency for Almost Harmonic Signals. IEEE Transactions on Signal Processing, 2020, 68, 6453-6466.	3.2	3
95	Adaptive Variational Nonlinear Chirp Mode Decomposition. , 2022, , .		3
96	On the identifiability of multipath parameters. Signal Processing, 1999, 74, 327-330.	2.1	2
97	Efficient implementation of the IAA-based Magnitude Squared Coherence estimator. , 2011, , .		2
98	Overcoming the Nyquist limit in blood flow velocity estimation. , 2012, , .		2
99	Multi-dimensional sinusoidal order estimation using angles between subspaces. , 2017, 64, 17-27.		2
100	A generalization of the sparse iterative covariance-based estimator. , 2017, , .		2
101	Using Optimal Mass Transport for Tracking and Interpolation of Toeplitz Covariance Matrices. , 2018, , .		2
102	Online High Resolution Stochastic Radiation Radar Imaging Using Sparse Covariance Fitting. , 2019, , .		2
103	Mismatched Estimation of Polynomially Damped Signals. , 2019, , .		2
104	Robust Fundamental Frequency Estimation in Coloured Noise. , 2020, , .		2
105	Computationally Efficient Estimation of Multi-dimensional Damped Modes using Sparse Wideband Dictionaries*. , 2018, , .		2
106	Robust Multi-Sensor Detection of Polymorphic NQR Signals. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	1
107	Optimal filters for extraction and separation of periodic sources. , 2009, , .		1
108	High-resolution estimation of multidimensional spectra from unevenly sampled data. , 2011, , .		1

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109	Non-parametric data-dependent estimation of spectroscopic echo-train signals. , 2013, , .		1
110	Sparse semi-parametric chirp estimation. , 2014, , .		1
111	Smooth time-frequency estimation using covariance fitting. , 2014, , .		1
112	Sparse chroma estimation for harmonic non-stationary audio. , 2015, , .		1
113	An adaptive penalty approach to multi-pitch estimation. , 2015, , .		1
114	Multi-pitch estimation via fast group sparse learning. , 2016, , .		1
115	Least Squares and Maximum Likelihood Estimation of Mixed Spectra. , 2018, , .		1
116	Optimal Microphone Placement for Localizing Tonal Sound Sources. , 2021, , .		1
117	Underwater source localization in the presence of strong interference. IET Radar, Sonar and Navigation, 2021, 15, 226-239.	0.9	1
118	Rapid measurement of heteronuclear transverse relaxation rates using non-uniformly sampled $^1\text{H}$ and $^{13}\text{C}$ accordion experiments. Magnetic Resonance, 2021, 2, 571-587.		1
119	Direction of Arrival Estimation using the Generalized SPICE Criterion. , 2021, , .		1
120	Estimating the Two-Dimensional Coherence Function. , 2007, , .		0
121	Spatio-temporal filtering methods for enhancement and separation of speech signals. , 2013, , .		0
122	Subspace-based estimation of symbolic periodicities. , 2013, , .		0
123	Time-recursive multi-pitch estimation using group sparse recursive least squares. , 2016, , .		0
124	Computationally efficient estimation of multi-dimensional spectral lines. , 2016, , .		0
125	Hyperparameter-free sparse regression of grouped variables. , 2016, , .		0
126	Online group-sparse estimation using the covariance fitting criterion. , 2017, , .		0



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127	Hyperparameter-selection for sparse regression: A probabilistic approach. , 2017, , .		0
128	Estimating Faults Modes in Ball Bearing Machinery using a Sparse Reconstruction Framework*. , 2018, , .		0
129	On Selecting Antenna Placements in Indoor Radio Environments. , 2018, , .		0
130	The Zoomed Iterative Adaptive Approach. , 2018, , .		0
131	Toeplitz-Based Underwater Acoustic Channel Blind Deconvolution. , 2019, , .		0
132	Defining Graph Signal Distances Using an Optimal Mass Transport Framework. , 2019, , .		0
133	Range-based Radar Model Structure Selection. , 2021, , .		0
134	Determining Joint Periodicities in Multi-Time Data with Sampling Uncertainties. , 2022, , .		0