

# Hans-Andrea Loeliger

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1030817/publications.pdf>

Version: 2024-02-01

50  
papers

660  
citations

1307594

7  
h-index

1199594

12  
g-index

50  
all docs

50  
docs citations

50  
times ranked

431  
citing authors

#	ARTICLE	IF	CITATIONS
1	Control-Bounded Analog-to-Digital Conversion. <i>Circuits, Systems, and Signal Processing</i> , 2022, 41, 1223-1254.	2.0	2
2	Smoothed-NUV Priors for Imaging. <i>IEEE Transactions on Image Processing</i> , 2022, 31, 4663-4678.	9.8	0
3	Signal Analysis Using Local Polynomial Approximations. , 2021, , .		2
4	Real-Time Interaural Time Delay Estimation via Onset Detection. , 2021, , .		3
5	Model-Based Separation, Detection, and Classification of Eye Movements. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 588-600.	4.2	8
6	Quantum Measurement as Marginalization and Nested Quantum Systems. <i>IEEE Transactions on Information Theory</i> , 2020, 66, 3485-3499.	2.4	3
7	Online Memorization of Random Firing Sequences by a Recurrent Neural Network. , 2020, , .		1
8	Multi-Image Blind Deblurring Using a Smoothed NUV Prior and Iteratively Reweighted Coordinate Descent. , 2020, , .		2
9	Exact Discrete-time Realizations of the Gammatone Filter. , 2019, , .		0
10	Context by Proxy. , 2019, , .		1
11	Simultaneous Partial Inverses and Decoding Interleaved Reed-Solomon Codes. <i>IEEE Transactions on Information Theory</i> , 2018, 64, 7511-7528.	2.4	7
12	Factor Graphs with NUV Priors and Iteratively Reweighted Descent for Sparse Least Squares and More. , 2018, , .		9
13	A Multi-Resolution Approach to Complexity Reduction in Tomographic Reconstruction. , 2018, , .		1
14	Estimation of Neural Inputs and Detection of Saccades and Smooth Pursuit Eye Movements by Sparse Bayesian Learning. , 2018, 2018, 2619-2622.		3
15	Windowed State-Space Filters for Signal Detection and Separation. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 3768-3783.	5.3	9
16	Estimation of the Cardiac Field in the Esophagus Using a Multipolar Esophageal Catheter. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018, 12, 791-800.	4.0	1
17	Factor Graphs for Quantum Probabilities. <i>IEEE Transactions on Information Theory</i> , 2017, , 1-1.	2.4	17
18	Unsupervised feature extraction, signal labeling, and blind signal separation in a state space world. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
19	Color image segmentation using iterative edge cutting, NUV-EM, and Gaussian message passing. , 2017, , .		3
20	Autonomous state space models for recursive signal estimation beyond least squares. , 2017, , .		2
21	On sparsity by NUV-EM, Gaussian message passing, and Kalman smoothing. , 2016, , .		30
22	Inferring depolarization of cells from 3D-electrode measurements using a bank of linear state space models. , 2016, , .		3
23	Partial Inverses mod $m(x)$ and Reverse Berlekamp-Massey Decoding. IEEE Transactions on Information Theory, 2016, 62, 6737-6756.	2.4	5
24	New square-root and diagonalized Kalman smoothers. , 2016, , .		3
25	Outlier-insensitive Kalman smoothing and marginal message passing. , 2016, , .		9
26	Tomographic reconstruction using a new voxel-domain prior and Gaussian message passing. , 2016, , .		5
27	Control-based analog-to-digital conversion without sampling and quantization. , 2015, , .		3
28	Decoding of interleaved Reed-Solomon codes via simultaneous partial inverses. , 2015, , .		3
29	Gesture recognition from magnetic field measurements using a bank of linear state space models and local likelihood filtering. , 2015, , .		5
30	Local statistical models from deterministic state space models, likelihood filtering, and local typicality. , 2014, , .		6
31	An algorithm for simultaneous partial inverses. , 2014, , .		4
32	Self-synchronizing signal parsing with spiking feature-detection filters. , 2014, , .		1
33	Estimation of sensor input signals that are neither bandlimited nor sparse. , 2014, , .		5
34	Signal processing with factor graphs: Beamforming and Hilbert transform. , 2013, , .		0
35	Monte Carlo Algorithms for the Partition Function and Information Rates of Two-Dimensional Channels. IEEE Transactions on Information Theory, 2013, 59, 495-503.	2.4	10
36	Partition function of the Ising model via factor graph duality. , 2013, , .		10

#	ARTICLE	IF	CITATIONS
37	Reverse Berlekamp-Massey decoding. , 2013, , .		4
38	Analog-to-digital conversion using unstable filters. , 2011, , .		4
39	Multi-sensor estimation and detection of phase-locked sinusoids. , 2011, , .		3
40	On irreducible polynomial remainder codes. , 2011, , .		10
41	Estimating the information rate of noisy two-dimensional constrained channels. , 2010, , .		0
42	Multitree decoding and multitree-aided LDPC decoding. , 2010, , .		2
43	Estimating the partition function of 2-D fields and the capacity of constrained noiseless 2-D channels using tree-based Gibbs sampling. , 2009, , .		6
44	Localizing, forgetting, and likelihood filtering in state-space models. , 2009, , .		8
45	Continuous-time matched filtering and decoding without synchronization. , 2009, , .		1
46	Computation of Information Rates by Particle Methods. IEEE Transactions on Information Theory, 2008, 54, 406-409.	2.4	27
47	Simulation-based estimation of the partition function and the information rate of two-dimensional models. , 2008, , .		5
48	On sequential analog-to-digital conversion with low-precision components. , 2008, , .		2
49	The Factor Graph Approach to Model-Based Signal Processing. Proceedings of the IEEE, 2007, 95, 1295-1322.	21.3	391
50	On the Static Resolution of Digitally Corrected Analog-to-Digital and Digital-to-Analog Converters With Low-Precision Components. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 229-237.	0.1	19