

Shuchin Aeron

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2897818/publications.pdf>

Version: 2024-02-01

38
papers

1,137
citations

759233

12
h-index

610901

24
g-index

40
all docs

40
docs citations

40
times ranked

892
citing authors

#	ARTICLE	IF	CITATIONS
1	Exact Tensor Completion Using t-SVD. IEEE Transactions on Signal Processing, 2017, 65, 1511-1526.	5.3	364
2	Tensorâ€“tensor products with invertible linear transforms. Linear Algebra and Its Applications, 2015, 485, 545-570.	0.9	144
3	Information Theoretic Bounds for Compressed Sensing. IEEE Transactions on Information Theory, 2010, 56, 5111-5130.	2.4	125
4	Wireless Ad Hoc Networks: Strategies and Scaling Laws for the Fixed SNR Regime. IEEE Transactions on Information Theory, 2007, 53, 2044-2059.	2.4	71
5	Adaptive Sampling of RF Fingerprints for Fine-Grained Indoor Localization. IEEE Transactions on Mobile Computing, 2016, 15, 2411-2423.	5.8	70
6	5D seismic data completion and denoising using a novel class of tensor decompositions. Geophysics, 2015, 80, V83-V95.	2.6	56
7	Low-Tubal-Rank Tensor Completion Using Alternating Minimization. IEEE Transactions on Information Theory, 2020, 66, 1714-1737.	2.4	51
8	Efficient Sensor Management Policies for Distributed Target Tracking in Multihop Sensor Networks. IEEE Transactions on Signal Processing, 2008, 56, 2562-2574.	5.3	49
9	A Compressed Sensing Analog-to-Information Converter With Edge-Triggered SAR ADC Core. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1135-1148.	5.4	44
10	A randomized tensor singular value decomposition based on the tâ€“product. Numerical Linear Algebra With Applications, 2018, 25, e2179.	1.6	39
11	Tensor Train Neighborhood Preserving Embedding. IEEE Transactions on Signal Processing, 2018, 66, 2724-2732.	5.3	23
12	Broadband Dispersion Extraction Using Simultaneous Sparse Penalization. IEEE Transactions on Signal Processing, 2011, 59, 4821-4837.	5.3	14
13	On Acoustic Signal Compression for Ultrasonic Borehole Imaging. IEEE Transactions on Computational Imaging, 2017, 3, 330-343.	4.4	10
14	Principal component analysis with tensor train subspace. Pattern Recognition Letters, 2019, 122, 86-91.	4.2	9
15	High Resolution Frequency Measurement Techniques for Relaxation Oscillator Based Capacitive Sensors. IEEE Sensors Journal, 2021, 21, 13394-13404.	4.7	9
16	Domain adaptation for robust workload level alignment between sessions and subjects using fNIRS. Journal of Biomedical Optics, 2021, 26, .	2.6	9
17	Robust Detection and Estimation for Logging While Drilling Monopole Acoustic Data. IEEE Transactions on Signal Processing, 2015, 63, 3062-3075.	5.3	7
18	Asymptotic optimality results for controlled sequential estimation. , 2013, , .		6

#	ARTICLE	IF	CITATIONS
19	On Quantized Analog Compressive Sensing Methods for Efficient Resonator Frequency Estimation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 4556-4565.	5.4	6
20	On Matched Filtering for Statistical Change Point Detection. IEEE Open Journal of Signal Processing, 2020, 1, 159-176.	3.5	5
21	Artifact Suppression for Passive Cavitation Imaging Using U-Net CNNs with Uncertainty Quantification. , 2019, , .		4
22	Utilizing machine learning with knockoff filtering to extract significant metabolites in Crohn's disease with a publicly available untargeted metabolomics dataset. PLoS ONE, 2021, 16, e0255240.	2.5	4
23	Decomposing Biochemical Networks Into Elementary Flux Modes Using Graph Traversal. , 2013, , .		3
24	Group-invariant Subspace Clustering. , 2015, , .		3
25	Robust large-scale non-negative matrix factorization using Proximal Point algorithm. , 2013, , .		2
26	Exploiting Algebraic and Structural Complexity for Single Snapshot Computed Tomography Hyperspectral Imaging Systems. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 990-1002.	10.8	2
27	Joint Multi-Mode Dispersion Extraction in Frequency-Wavenumber and Space-Time Domains. IEEE Transactions on Signal Processing, 2015, 63, 4115-4128.	5.3	2
28	R-Local Unlabeled Sensing: A Novel Graph Matching Approach for Multiview Unlabeled Sensing Under Local Permutations. IEEE Open Journal of Signal Processing, 2021, 2, 309-317.	3.5	2
29	Controlled sensing for sequential estimation. , 2013, , .		1
30	First Order Methods for Robust non-negative matrix factorization for large scale noisy data. , 2014, , .		1
31	Unsupervised clustering under the Union of Polyhedral Cones (UOPC) model. Pattern Recognition Letters, 2017, 100, 104-109.	4.2	1
32	r-Local Unlabeled Sensing: Improved Algorithm and Applications. , 2022, , .		1
33	Compressed sensing of EEG using a random sampling ADC in 90nm CMOS. , 2013, , .		0
34	Experimental results on wideband spectrum sensing using random sampling ADC in 90nm CMOS. , 2013, , .		0
35	A note on information-theoretic bounds on matrix completion under union of subspaces model. , 2016, , .		0
36	Guest Editorial Computational Imaging for Earth Sciences. IEEE Transactions on Computational Imaging, 2017, 3, 144-145.	4.4	0

#	ARTICLE	IF	CITATIONS
37	Algebraic Multigrid for Least Squares Problems on Graphs with Applications to HodgeRank. , 2017, , .		0
38	Compressed Sensing. , 2022, , 155-175.		0