Xiao Fu

List of Publications by Year
in descending order

74	3,326	304743	223800
papers	citations	22	46
		h-index	g-index

74	74	74	2641
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tensor Decomposition for Signal Processing and Machine Learning. IEEE Transactions on Signal Processing, 2017, 65, 3551-3582.	5.3	963
2	Learning to Optimize: Training Deep Neural Networks for Interference Management. IEEE Transactions on Signal Processing, 2018, 66, 5438-5453.	5.3	512
3	Learning to optimize: Training deep neural networks for wireless resource management. , 2017, , .		202
4	Nonnegative Matrix Factorization for Signal and Data Analytics: Identifiability, Algorithms, and Applications. IEEE Signal Processing Magazine, 2019, 36, 59-80.	5.6	173
5	Hyperspectral Super-Resolution: A Coupled Tensor Factorization Approach. IEEE Transactions on Signal Processing, 2018, 66, 6503-6517.	5.3	141
6	Data-Driven Learning-Based Optimization for Distribution System State Estimation. IEEE Transactions on Power Systems, 2019, 34, 4796-4805.	6.5	113
7	Blind Separation of Quasi-Stationary Sources: Exploiting Convex Geometry in Covariance Domain. IEEE Transactions on Signal Processing, 2015, 63, 2306-2320.	5.3	90
8	Robust Volume Minimization-Based Matrix Factorization for Remote Sensing and Document Clustering. IEEE Transactions on Signal Processing, 2016, 64, 6254-6268.	5.3	77
9	Semiblind Hyperspectral Unmixing in the Presence of Spectral Library Mismatches. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5171-5184.	6.3	75
10	Fast Unit-Modulus Least Squares With Applications in Beamforming. IEEE Transactions on Signal Processing, 2017, 65, 2875-2887.	5.3	68
11	On Identifiability of Nonnegative Matrix Factorization. IEEE Signal Processing Letters, 2018, 25, 328-332.	3.6	60
12	Self-Dictionary Sparse Regression for Hyperspectral Unmixing: Greedy Pursuit and Pure Pixel Search Are Related. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1128-1141.	10.8	56
13	Joint Tensor Factorization and Outlying Slab Suppression With Applications. IEEE Transactions on Signal Processing, 2015, 63, 6315-6328.	5.3	47
14	Hyperspectral Super-Resolution via Interpretable Block-Term Tensor Modeling. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 641-656.	10.8	39
15	Tensor-Based Channel Estimation for Dual-Polarized Massive MIMO Systems. IEEE Transactions on Signal Processing, 2018, 66, 6390-6403.	5.3	37
16	Tensor Completion From Regular Sub-Nyquist Samples. IEEE Transactions on Signal Processing, 2020, 68, 1-16.	5.3	37
17	Scalable and Flexible Multiview MAX-VAR Canonical Correlation Analysis. IEEE Transactions on Signal Processing, 2017, 65, 4150-4165.	5.3	34
18	Block-Randomized Stochastic Proximal Gradient for Low-Rank Tensor Factorization. IEEE Transactions on Signal Processing, 2020, 68, 2170-2185.	5.3	33

#	Article	IF	Citations
19	Spectrum Cartography via Coupled Block-Term Tensor Decomposition. IEEE Transactions on Signal Processing, 2020, 68, 3660-3675.	5.3	33
20	Structured SUMCOR Multiview Canonical Correlation Analysis for Large-Scale Data. IEEE Transactions on Signal Processing, 2019, 67, 306-319.	5.3	29
21	Limited Feedback Channel Estimation in Massive MIMO With Non-Uniform Directional Dictionaries. IEEE Transactions on Signal Processing, 2018, 66, 5127-5141.	5.3	26
22	Tensors, Learning, and "Kolmogorov Extension" for Finite-Alphabet Random Vectors. IEEE Transactions on Signal Processing, 2018, 66, 4854-4868.	5.3	26
23	Learning-Based Antenna Selection for Multicasting. , 2018, , .		25
24	A Factor Analysis Framework for Power Spectra Separation and Multiple Emitter Localization. IEEE Transactions on Signal Processing, 2015, 63, 6581-6594.	5.3	23
25	Power Spectra Separation via Structured Matrix Factorization. IEEE Transactions on Signal Processing, 2016, 64, 4592-4605.	5.3	21
26	Limited Feedback Double Directional Massive MIMO Channel Estimation: From Low-Rank Modeling to Deep Learning. , 2018, , .		20
27	Hyperspectral Denoising Using Unsupervised Disentangled Spatiospectral Deep Priors. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	19
28	Inexact Alternating Optimization for Phase Retrieval in the Presence of Outliers. IEEE Transactions on Signal Processing, 2017, 65, 6069-6082.	5.3	18
29	Efficient and Distributed Generalized Canonical Correlation Analysis for Big Multiview Data. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 2304-2318.	5.7	18
30	Deep Spectrum Cartography: Completing Radio Map Tensors Using Learned Neural Models. IEEE Transactions on Signal Processing, 2022, 70, 1170-1184.	5.3	18
31	Algebraic Channel Estimation Algorithms for FDD Massive MIMO Systems. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 961-973.	10.8	17
32	Penalty Dual Decomposition Method for Nonsmooth Nonconvex Optimization—Part II: Applications. IEEE Transactions on Signal Processing, 2020, 68, 4242-4257.	5.3	17
33	Hyperspectral Super-Resolution via Global–Local Low-Rank Matrix Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7125-7140.	6.3	17
34	Hyperspectral Super-Resolution: A Coupled Nonnegative Block-Term Tensor Decomposition Approach. , 2019, , .		16
35	Efficient and Distributed Algorithms for Large-Scale Generalized Canonical Correlations Analysis. , 2016, , .		15
36	Robustness Analysis of Structured Matrix Factorization via Self-Dictionary Mixed-Norm Optimization. IEEE Signal Processing Letters, 2016, 23, 60-64.	3.6	14

#	Article	IF	Citations
37	Anchor-Free Correlated Topic Modeling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1056-1071.	13.9	14
38	Multi-User Adaptive Video Delivery Over Wireless Networks: A Physical Layer Resource-Aware Deep Reinforcement Learning Approach. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 798-815.	8.3	14
39	Topology Identification of Directed Graphs via Joint Diagonalization of Correlation Matrices. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 271-283.	2.8	13
40	Amplitude Retrieval for Channel Estimation of MIMO Systems With One-Bit ADCs. IEEE Signal Processing Letters, 2019, 26, 1698-1702.	3.6	12
41	Learning to Continuously Optimize Wireless Resource in Episodically Dynamic Environment. , 2021, , .		12
42	Computing Large-Scale Matrix and Tensor Decomposition With Structured Factors: A Unified Nonconvex Optimization Perspective. IEEE Signal Processing Magazine, 2020, 37, 78-94.	5.6	11
43	Learning to Continuously Optimize Wireless Resource in a Dynamic Environment: A Bilevel Optimization Perspective. IEEE Transactions on Signal Processing, 2022, 70, 1900-1917.	5.3	11
44	MISO Channel Estimation and Tracking from Received Signal Strength Feedback. IEEE Transactions on Signal Processing, 2018, 66, 1691-1704.	5.3	9
45	Nonlinear Multiview Analysis: Identifiability and Neural Network-Assisted Implementation. IEEE Transactions on Signal Processing, 2020, 68, 2697-2712.	5.3	9
46	Recovering Joint Probability of Discrete Random Variables From Pairwise Marginals. IEEE Transactions on Signal Processing, 2021, 69, 4116-4131.	5.3	8
47	Deep Generative Model Learning For Blind Spectrum Cartography with NMF-Based Radio Map Disaggregation. , 2021, , .		8
48	Learning Nonlinear Mixtures: Identifiability and Algorithm. IEEE Transactions on Signal Processing, 2020, 68, 2857-2869.	5.3	7
49	A stochastic maximum-likelihood framework for simplex structured matrix factorization. , 2017, , .		6
50	Tensor-Based Parameter Estimation of Double Directional Massive Mimo Channel with Dual-Polarized Antennas. , 2018, , .		6
51	Low-complexity Proximal Gauss-Newton Algorithm for Nonnegative Matrix Factorization. , 2019, , .		6
52	Link Prediction Under Imperfect Detection: Collaborative Filtering for Ecological Networks. IEEE Transactions on Knowledge and Data Engineering, 2019, , 1-1.	5.7	6
53	Stochastic Mirror Descent for Low-Rank Tensor Decomposition Under Non-Euclidean Losses. IEEE Transactions on Signal Processing, 2022, 70, 1803-1818.	5.3	5
54	Non-uniform directional dictionary-based limited feedback for massive MIMO systems. , 2017, , .		4

#	Article	IF	Citations
55	Shared Human-Machine Control for Self-Aware Prostheses. , 2018, , .		4
56	Identifiability-Guaranteed Simplex-Structured Post-Nonlinear Mixture Learning via Autoencoder. IEEE Transactions on Signal Processing, 2021, 69, 4921-4936.	5.3	4
57	Mixed Membership Graph Clustering via Systematic Edge Query. IEEE Transactions on Signal Processing, 2021, 69, 5189-5205.	5.3	4
58	Hybrid Precoding Design Based on Dual-Layer Deep-Unfolding Neural Network. , 2021, , .		4
59	Distributed optimal power flow using feasible point pursuit. , 2017, , .		3
60	Memory-Efficient Convex Optimization for Self-Dictionary Separable Nonnegative Matrix Factorization: A Frankâ€"Wolfe Approach. IEEE Transactions on Signal Processing, 2022, 70, 3221-3236.	5.3	3
61	Directed network topology inference via sparse joint diagonalization. , 2017, , .		2
62	Stochastic Optimization for Coupled Tensor Decomposition with Applications in Statistical Learning. , 2019, , .		2
63	Multiuser Video Streaming Rate Adaptation: A Physical Layer Resource-Aware Deep Reinforcement Learning Approach. , 2019, , .		2
64	Fiber-Sampled Stochastic Mirror Descent for Tensor Decomposition with Î²-Divergence. , 2021, , .		2
65	A Convex Low-Rank Regularization Method for Hyperspectral Super-Resolution. , 2018, , .		1
66	A Simple Algebraic Channel Estimation Method for FDD Massive MIMO Systems. , 2019, , .		1
67	Nonlinear Multiview Analysis: Identifiability and Neural Network-based Implementation. , 2020, , .		1
68	On Recoverability of Randomly Compressed Tensors With Low CP Rank. IEEE Signal Processing Letters, 2020, 27, 1125-1129.	3.6	1
69	Constrained Block-Term Tensor Decomposition-Based Hyperspectral Unmixing via Alternating Gradient Projection. , 2021, , .		1
70	Communication-Efficient Distributed MAX-VAR Generalized CCA via Error Feedback-Assisted Quantization. , 2022, , .		1
71	Learning Mixed Membership from Adjacency Graph Via Systematic Edge Query: Identifiability and Algorithm. , 2021, , .		0
72	Recovering Joint PMF from Pairwise Marginals. , 2020, , .		0

#	Article	IF	Citations
73	Finite-Sample Analysis of Deep CCA-Based Unsupervised Post-Nonlinear Multimodal Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, PP, 1-7.	11.3	0
74	VLSI Hardware Architecture of Stochastic Low-rank Tensor Decomposition. , 2021, , .		0