## Waheed U Bajwa

## List of Publications by Year in descending order

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Version: 2024-02-01

687363 434195 1,611 73 13 31 citations h-index g-index papers 73 73 73 1504 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Compressed Channel Sensing: A New Approach to Estimating Sparse Multipath Channels. Proceedings of the IEEE, 2010, 98, 1058-1076.	21.3	890
2	Cloud K-SVD: A Collaborative Dictionary Learning Algorithm for Big, Distributed Data. IEEE Transactions on Signal Processing, 2016, 64, 173-188.	5.3	70
3	Why Gabor frames? Two fundamental measures of coherence and their role in model selection. Journal of Communications and Networks, 2010, 12, 289-307.	2.6	63
4	Adversary-Resilient Distributed and Decentralized Statistical Inference and Machine Learning: An Overview of Recent Advances Under the Byzantine Threat Model. IEEE Signal Processing Magazine, 2020, 37, 146-159.	5.6	49
5	ByRDiE: Byzantine-Resilient Distributed Coordinate Descent for Decentralized Learning. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 611-627.	2.8	47
6	Two are better than one: Fundamental parameters of frame coherence. Applied and Computational Harmonic Analysis, 2012, 33, 58-78.	2.2	46
7	Target estimation in colocated MIMO radar via matrix completion. , 2013, , .		36
8	A Constrained Random Demodulator for Sub-Nyquist Sampling. IEEE Transactions on Signal Processing, 2013, 61, 707-723.	5.3	24
9	A Low Tensor-Rank Representation Approach for Clustering of Imaging Data. IEEE Signal Processing Letters, 2018, 25, 1196-1200.	3.6	24
10	Learning the Nonlinear Geometry of High-Dimensional Data: Models and Algorithms. IEEE Transactions on Signal Processing, 2015, 63, 6229-6244.	5.3	18
11	BRIDGE: Byzantine-Resilient Decentralized Gradient Descent. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 610-626.	2.8	18
12	Passive RFID for Object and Use Detection during Trauma Resuscitation. IEEE Transactions on Mobile Computing, 2016, 15, 924-937.	5.8	16
13	Toward Resource-Optimal Consensus Over the Wireless Medium. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 284-295.	10.8	15
14	Minimax Lower Bounds on Dictionary Learning for Tensor Data. IEEE Transactions on Information Theory, 2018, 64, 2706-2726.	2.4	14
15	Detection Theory for Union of Subspaces. IEEE Transactions on Signal Processing, 2018, 66, 6347-6362.	5.3	13
16	A linearly convergent algorithm for distributed principal component analysis. Signal Processing, 2022, 193, 108408.	3.7	13
17	STARK: Structured dictionary learning through rank-one tensor recovery. , 2017, , .		12
18	Sparsity-Based Joint NBI and Impulse Noise Mitigation in Hybrid PLC-Wireless Transmissions. IEEE Access, 2018, 6, 30280-30295.	4.2	12

#	Article	IF	CITATIONS
19	Machine Learning From Distributed, Streaming Data [From the Guest Editors]. IEEE Signal Processing Magazine, 2020, 37, 11-13.	5.6	12
20	Cloud K-SVD: Computing data-adaptive representations in the cloud. , 2013, , .		11
21	Identifiability of Kronecker-Structured Dictionaries for Tensor Data. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1047-1062.	10.8	11
22	Scaling-Up Distributed Processing of Data Streams for Machine Learning. Proceedings of the IEEE, 2020, 108, 1984-2012.	21.3	11
23	Identification of Linear Time-Varying Systems Through Waveform Diversity. IEEE Transactions on Signal Processing, 2015, 63, 2070-2084.	5.3	10
24	On "Flipping" a Large Signal Processing Class [SP Education]. IEEE Signal Processing Magazine, 2017, 34, 158-170.	5.6	10
25	A general framework for the design and analysis of sparse FIR linear equalizers. , 2015, , .		9
26	RD-SVM: A resilient distributed support vector machine. , 2016, , .		9
27	Optimization for Data-Driven Learning and Control. Proceedings of the IEEE, 2020, 108, 1863-1868.	21.3	9
28	Bits through bufferless queues. , 2013, , .		8
29	Fast and Communication-efficient Distributed Pca. , 2019, , .		8
30	Learning-Aided Physical Layer Attacks Against Multicarrier Communications in IoT. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 239-254.	7.9	8
31	Learning Mixtures of Separable Dictionaries for Tensor Data: Analysis and Algorithms. IEEE Transactions on Signal Processing, 2020, 68, 33-48.	5.3	7
32	Tensor Regression Using Low-Rank and Sparse Tucker Decompositions. SIAM Journal on Mathematics of Data Science, 2020, 2, 944-966.	1.8	7
33	Distributed Principal Subspace Analysis for Partitioned Big Data: Algorithms, Analysis, and Implementation. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 699-715.	2.8	7
34	Dictionary learning based nonlinear classifier training from distributed data., 2014,,.		6
35	Sample complexity bounds for dictionary learning of tensor data. , 2017, , .		6
36	Stochastic Optimization From Distributed Streaming Data in Rate-Limited Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 152-167.	2.8	6

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#	Article	IF	CITATIONS
37	Hierarchical Union-of-Subspaces Model for Human Activity Summarization. , 2015, , .		5
38	Revisiting robustness of the union-of-subspaces model for data-adaptive learning of nonlinear signal models. , 2014, , .		4
39	Clustering-aware structure-constrained low-rank representation model for learning human action attributes. , 2016, , .		4
40	Parametric dictionary learning for TWRI using distributed particle swarm optimization. , 2016, , .		4
41	How Secure are Multicarrier Communication Systems Against Signal Exploitation Attacks?., 2018,,.		4
42	ExSIS: Extended sure independence screening for ultrahigh-dimensional linear models. Signal Processing, 2019, 159, 33-48.	3.7	4
43	Real-Time In-Network Image Compression via Distributed Dictionary Learning. IEEE Transactions on Mobile Computing, 2023, 22, 472-486.	5.8	4
44	Time-varying Metamaterial-enabled Directional Modulation Schemes for Physical Layer Security in Wireless Communication Links. ACM Journal on Emerging Technologies in Computing Systems, 2022, 18, 1-20.	2.3	4
45	Resource tradeoffs in distributed subspace tracking over the wireless medium. , 2013, , .		3
46	Deterministic selection of pilot tones for compressive estimation of MIMO-OFDM channels. , 2015, , .		3
47	A convergence analysis of distributed dictionary learning based on the K-SVD algorithm. , 2015, , .		3
48	Through-the-wall radar imaging using a distributed Quasi-Newton method., 2017,,.		3
49	BYRDIE: A BYZANTINE-RESILIENT DISTRIBUTED LEARNING ALGORITHM. , 2018, , .		3
50	Group model selection using marginal correlations: The good, the bad and the Ugly. , 2012, , .		2
51	Geometrie manifold approximation using union of tangent patches. , 2014, , .		2
52	Subspace detection in a kernel space: The missing data case., 2014,,.		2
53	A greedy, adaptive approach to learning geometry of nonlinear manifolds. , 2014, , .		2
54	Metric-Constrained Kernel Union of Subspaces. , 2015, , .		2

#	Article	IF	Citations
55	Identification of kronecker-structured dictionaries: An asymptotic analysis., 2017,,.		2
56	Robust Distributed Dictionary Learning for In-Network Image Compression. , 2018, , .		2
57	Sample Complexity Bounds for Low-Separation-Rank Dictionary Learning. , 2019, , .		2
58	Sample Complexity Bounds for Dictionary Learning from Vector- and Tensor-Valued Data. , 2021, , 134-162.		2
59	A Hybrid Model-Based and Learning-Based Approach for Classification Using Limited Number of Training Samples. IEEE Open Journal of Signal Processing, 2022, 3, 49-70.	3.5	2
60	Rapid sensing of underutilized, wideband spectrum using the Random Demodulator., 2012,,.		1
61	Information in tweets: Analysis of a bufferless timing channel model. , 2014, , .		1
62	Capacity analysis of a discrete-time bufferless timing channel. , 2014, , .		1
63	Sparsifying dictionary analysis for FIR MIMO channel-shortening equalizers. , 2016, , .		1
64	Union of Subspaces Signal Detection In Subspace Interference. , 2018, , .		1
65	Flipping Large Classes on a Shoestring Budget. , 2018, , .		1
66	Revisiting Sparse Channel Estimation in Massive MIMO-OFDM Systems. , 2019, , .		1
67	Hyphylearn: A Domain Adaptation-Inspired Approach to Classification Using Limited Number of Training Samples. , 2021, , .		1
68	Revisiting maximal response-based local identification of overcomplete dictionaries. , 2016, , .		0
69	Recent developments in distributed dictionary learning. , 2017, , .		O
70	Generalized geometric programming for rate allocation in consensus. , 2017, , .		0
71	PAC Learning from Distributed Data in the Presence of Malicious Nodes. , 2019, , .		0
72	Introduction to Information Theory and Data Science, 2021,, 1-43.		0

# ARTICLE IF CITATIONS

73 A Minimax Lower Bound for Low-Rank Matrix-Variate Logistic Regression., 2021,,. 0