

# Xiangxiang Xu

## List of Publications by Year in descending order

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34  
papers

308  
citations

1684188

5  
h-index

1588992

8  
g-index

34  
all docs

34  
docs citations

34  
times ranked

215  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Efficient Approach to Informative Feature Extraction from Multimodal Data. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 5281-5288.	4.9	39
2	EV charging behaviour analysis and modelling based on mobile crowdsensing data. IET Generation, Transmission and Distribution, 2017, 11, 1683-1691.	2.5	38
3	Gotcha II. , 2016, , .		29
4	Joint Deployment of Small Cells and Wireless Backhaul Links in Next-Generation Networks. IEEE Communications Letters, 2015, 19, 2250-2253.	4.1	27
5	PGA. , 2018, , .		25
6	HAP. , 2016, , .		25
7	An Information Theoretic Interpretation to Deep Neural Networks. , 2019, , .		15
8	Gotcha. , 2014, , .		12
9	Maximal Correlation Regression. IEEE Access, 2020, 8, 26591-26601.	4.2	10
10	An Information Theoretic Interpretation to Deep Neural Networks. Entropy, 2022, 24, 135.	2.2	10
11	Delay Effect in Mobile Sensing System for Urban Air Pollution Monitoring. , 2017, , .		9
12	Individualized Calibration of Industrial-Grade Gas Sensors in Air Quality Sensing System. , 2017, , .		9
13	Deployment of 5G networking infrastructure with machine type communication considerations. , 2016, , .		7
14	A real-time implementation of CoMP transmission based on cloud-RAN infrastructure. , 2014, , .		6
15	Generative Model Based Fine-Grained Air Pollution Inference for Mobile Sensing Systems. , 2018, , .		5
16	An Information-Theoretic Approach to Unsupervised Feature Selection for High-Dimensional Data. IEEE Journal on Selected Areas in Information Theory, 2020, 1, 157-166.	2.5	5
17	Fine-Grained Air Pollution Inference with Mobile Sensing Systems. , 2020, 4, 1-21.		5
18	Guiding the Data Learning Process with Physical Model in Air Pollution Inference. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
19	On The Sample Complexity of HGR Maximal Correlation Functions. , 2019, , .		4
20	Enhancing the Data Learning With Physical Knowledge in Fine-Grained Air Pollution Inference. IEEE Access, 2020, 8, 88372-88384.	4.2	4
21	A Local Characterization for Wyner Common Information. , 2020, , .		3
22	An Information Theoretic Framework for Distributed Learning Algorithms. , 2021, , .		3
23	On Distributed Learning With Constant Communication Bits. IEEE Journal on Selected Areas in Information Theory, 2022, 3, 125-134.	2.5	3
24	Dynamic on/off control of wireless small cells with heterogeneous backhuls. , 2016, , .		2
25	On the Robustness of Noisy ACE Algorithm and Multi-Layer Residual Learning. , 2019, , .		2
26	On the Asymptotic Sample Complexity of HGR Maximal Correlation Functions in Semi-supervised Learning. , 2019, , .		2
27	On Distributed Hypothesis Testing with Constant-Bit Communication Constraints. , 2021, , .		2
28	The Geometric Structure of Generalized Softmax Learning. , 2018, , .		1
29	Maximal Correlation Embedding Network for Multilabel Learning with Missing Labels. , 2019, , .		1
30	On the Sample Complexity of Estimating Small Singular Modes. , 2020, , .		1
31	How to upgrade wireless networks: Small cells or massive MIMO?. , 2014, , .		0
32	A maximal correlation embedding method for multilabel human context recognition. , 2019, , .		0
33	On the Optimal Tradeoff Between Computational Efficiency and Generalizability of Oja's Algorithm. IEEE Access, 2020, 8, 102616-102628.	4.2	0
34	On the Sample Complexity of HGR Maximal Correlation Functions for Large Datasets. IEEE Transactions on Information Theory, 2021, 67, 1951-1980.	2.4	0