Xintao Wu

List of Publications by Year in descending order

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124 papers	2,383 citations	471061 17 h-index	433756 31 g-index
129 all docs	129 docs citations	129 times ranked	1495 citing authors

#	Article	IF	Citations
1	Contrastive Learning forÂInsider Threat Detection. Lecture Notes in Computer Science, 2022, , 395-403.	1.0	3
2	Poisoning Attacks on Fair Machine Learning. Lecture Notes in Computer Science, 2022, , 370-386.	1.0	4
3	The Causal Fairness Field Guide: Perspectives From Social and Formal Sciences. Frontiers in Big Data, 2022, 5, 892837.	1.8	9
4	oGBACâ€"A Group Based Access Control Framework for Information Sharing in Online Social Networks. IEEE Transactions on Dependable and Secure Computing, 2021, 18, 100-116.	3.7	9
5	Transferable Contextual Bandits with Prior Observations. Lecture Notes in Computer Science, 2021, , 398-410.	1.0	1
6	Deep learning for insider threat detection: Review, challenges and opportunities. Computers and Security, 2021, 104, 102221.	4.0	86
7	Enhancing personalized modeling via weighted and adversarial learning. International Journal of Data Science and Analytics, 2021, 12, 1-14.	2.4	0
8	Removing Disparate Impact on Model Accuracy in Differentially Private Stochastic Gradient Descent. , 2021, , .		10
9	AdvPL: Adversarial Personalized Learning. , 2020, , .		1
10	Database-Access Performance Antipatterns in Database-Backed Web Applications. , 2020, , .		10
11	Few-shot Insider Threat Detection. , 2020, , .		15
12	Fairness through Equality of Effort. , 2020, , .		15
13	Multi-cause Discrimination Analysis Using Potential Outcomes. Lecture Notes in Computer Science, 2020, , 224-234.	1.0	1
14	Towards Learning-Based, Content-Agnostic Detection of Social Bot Traffic. IEEE Transactions on Dependable and Secure Computing, 2020, , 1-1.	3.7	6
15	Characteristics of Bitcoin Transactions on Cryptomarkets. Lecture Notes in Computer Science, 2019, , 261-276.	1.0	9
16	Causal Modeling-Based Discrimination Discovery and Removal: Criteria, Bounds, and Algorithms. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 2035-2050.	4.0	20
17	One-Class Adversarial Nets for Fraud Detection. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 1286-1293.	3.6	81
18	On Convexity and Bounds of Fairness-aware Classification. , 2019, , .		13

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19	BotFlowMon: Learning-based, Content-Agnostic Identification of Social Bot Traffic Flows. , 2019, , .		6
20	SAFE: A Neural Survival Analysis Model for Fraud Early Detection. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 1278-1285.	3.6	21
21	Achieving Differential Privacy and Fairness in Logistic Regression. , 2019, , .		23
22	Dynamic Anomaly Detection Using Vector Autoregressive Model. Lecture Notes in Computer Science, 2019, , 600-611.	1.0	6
23	FairGAN⁺: Achieving Fair Data Generation and Classification through Generative Adversarial Nets. , 2019, , .		10
24	Insider Threat Detection via Hierarchical Neural Temporal Point Processes. , 2019, , .		18
25	Bayesian Network Construction and Genotype-Phenotype Inference Using GWAS Statistics. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 475-489.	1.9	14
26	Counterfactual Fairness: Unidentification, Bound and Algorithm. , 2019, , .		28
27	Heterogeneous Gaussian Mechanism: Preserving Differential Privacy in Deep Learning with Provable Robustness. , 2019, , .		21
28	Achieving Causal Fairness through Generative Adversarial Networks. , 2019, , .		27
29	FairGAN: Fairness-aware Generative Adversarial Networks. , 2018, , .		135
30	On spectral analysis of directed signed graphs. International Journal of Data Science and Analytics, 2018, 6, 147-162.	2.4	7
31	On Discrimination Discovery and Removal in Ranked Data using Causal Graph. , 2018, , .		18
32	Incorporating pre-training in long short-term memory networks for tweet classification. Social Network Analysis and Mining, 2018, 8, 1.	1.9	12
33	Task-specific word identification from short texts using a convolutional neural network1. Intelligent Data Analysis, 2018, 22, 533-550.	0.4	8
34	Achieving Non-Discrimination in Prediction. , 2018, , .		20
35	DPNE: Differentially Private Network Embedding. Lecture Notes in Computer Science, 2018, , 235-246.	1.0	9
36	SNE: Signed Network Embedding. Lecture Notes in Computer Science, 2017, , 183-195.	1.0	90

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37	Anti-discrimination learning: a causal modeling-based framework. International Journal of Data Science and Analytics, 2017, 4, 1-16.	2.4	26
38	On Spectral Analysis of Signed and Dispute Graphs: Application to Community Structure. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1480-1493.	4.0	6
39	Preserving differential privacy in convolutional deep belief networks. Machine Learning, 2017, 106, 1681-1704.	3.4	55
40	An overview of human genetic privacy. Annals of the New York Academy of Sciences, 2017, 1387, 61-72.	1.8	54
41	Spectrum-based Deep Neural Networks for Fraud Detection. , 2017, , .		23
42	Modeling SNP and quantitative trait association from GWAS catalog using CLG Bayesian network. , 2017, , .		4
43	On Spectral Analysis of Directed Signed Graphs. , 2017, , .		2
44	STIP: An SNP-trait inference platform. , 2017, , .		1
45	Adaptive Laplace Mechanism: Differential Privacy Preservation in Deep Learning. , 2017, , .		112
46	Differential Privacy Preserving Causal Graph Discovery. , 2017, , .		5
47	DPWeka: Achieving Differential Privacy in WEKA. , 2017, , .		2
48	Achieving Non-Discrimination in Data Release. , 2017, , .		32
49	A Causal Framework for Discovering and Removing Direct and Indirect Discrimination. , 2017, , .		60
50	Wikipedia Vandal Early Detection: From User Behavior to User Embedding. Lecture Notes in Computer Science, 2017, , 832-846.	1.0	9
51	Building Bayesian networks from GWAS statistics based on Independence of Causal Influence. , 2016, , .		6
52	Social network dominance based on analysis of asymmetry. , 2016, , .		1
53	A Framework of Privacy Decision Recommendation for Image Sharing in Online Social Networks. , 2016, , .		6
54	Incorporating Pre-Training in Long Short-Term Memory Networks for Tweets Classification. , 2016, , .		5

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55	Using Loglinear Model for Discrimination Discovery and Prevention. , 2016, , .		8
56	On digital image trustworthiness. Applied Soft Computing Journal, 2016, 48, 240-253.	4.1	7
57	On Discrimination Discovery Using Causal Networks. Lecture Notes in Computer Science, 2016, , 83-93.	1.0	12
58	Infringement of Individual Privacy via Mining Differentially Private GWAS Statistics. Lecture Notes in Computer Science, 2016, , 355-366.	1.0	3
59	Security and privacy protocols for perceptual image hashing. International Journal of Sensor Networks, 2015, 17, 146.	0.2	8
60	Analysis of Spectral Space Properties of Directed Graphs Using Matrix Perturbation Theory with Application in Graph Partition. , 2015, , .		11
61	Program-input generation for testing database applications using existing database states. Automated Software Engineering, 2015, 22, 439-473.	2.2	9
62	Block-Organized Topology Visualization for Visual Exploration of Signed Networks. , 2015, , .		1
63	Guest Editorial for Special Section on BIBM 2013. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2015, 12, 252-253.	1.9	1
64	Pairwised Specific Distance Learning from Physical Linkages. ACM Transactions on Knowledge Discovery From Data, 2015, 9, 1-27.	2.5	6
65	On Burst Detection and Prediction in Retweeting Sequence. Lecture Notes in Computer Science, 2015, , 96-107.	1.0	5
66	Guided test generation for database applications via synthesized database interactions. ACM Transactions on Software Engineering and Methodology, 2014, 23, 1-27.	4.8	26
67	On Spectral Analysis of Signed and Dispute Graphs. , 2014, , .		6
68	On learning cluster coefficient of private networks. Social Network Analysis and Mining, 2013, 3, 925-938.	1.9	17
69	A spectral approach to detecting subtle anomalies in graphs. Journal of Intelligent Information Systems, 2013, 41, 313-337.	2.8	20
70	Automatic test generation for mutation testing on database applications. , 2013, , .		13
71	Spectrum-Based Network Visualization for Topology Analysis. IEEE Computer Graphics and Applications, 2013, 33, 58-68.	1.0	9
72	Using aggregate human genome data for individual identification. , 2013, , .		11

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73	Differential Privacy Preserving Spectral Graph Analysis. Lecture Notes in Computer Science, 2013, , 329-340.	1.0	56
74	On Linear Refinement of Differential Privacy-Preserving Query Answering. Lecture Notes in Computer Science, 2013, , 353-364.	1.0	5
75	Preserving Differential Privacy in Degree-Correlation based Graph Generation. Transactions on Data Privacy, 2013, 6, 127-145.	1.0	15
76	Examining Multi-factor Interactions in Microblogging Based on Log-linear Modeling. , 2012, , .		4
77	On Learning Cluster Coefficient of Private Networks. , 2012, , 395-402.		8
78	Spectrum based fraud detection in social networks. , 2011, , .		34
79	Generating program inputs for database application testing. , 2011, , .		37
80	On link privacy in randomizing social networks. Knowledge and Information Systems, 2011, 28, 645-663.	2.1	39
81	A Spectrum-Based Framework for Quantifying Randomness of Social Networks. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 1842-1856.	4.0	11
82	Database state generation via dynamic symbolic execution for coverage criteria. , 2011, , .		21
83	Spectral Analysis of k-Balanced Signed Graphs. Lecture Notes in Computer Science, 2011, , 1-12.	1.0	13
84	Limiting Attribute Disclosure in Randomization Based Microdata Release. Journal of Computing Science and Engineering, 2011, 5, 169-182.	0.3	0
85	On Attribute Disclosure in Randomization Based Privacy Preserving Data Publishing. , 2010, , .		7
86	Spectrum based fraud detection in social networks. , 2010, , .		2
87	Reconstruction from Randomized Graph via Low Rank Approximation. , 2010, , .		26
88	A Survey of Privacy-Preservation of Graphs and Social Networks. The Kluwer International Series on Advances in Database Systems, 2010, , 421-453.	1.1	81
89	Interactive detection of network anomalies via coordinated multiple views. , 2010, , .		12
90	On Link Privacy in Randomizing Social Networks. Lecture Notes in Computer Science, 2009, , 28-39.	1.0	45

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91	On the Quantification of Identity and Link Disclosures in Randomizing Social Networks. Studies in Computational Intelligence, 2009, , 91-116.	0.7	0
92	On Randomness Measures for Social Networks. , 2009, , .		16
93	Graph Generation with Prescribed Feature Constraints. , 2009, , .		45
94	Comparisons of randomization and K-degree anonymization schemes for privacy preserving social network publishing. , 2009, , .		56
95	Protecting business intelligence and customer privacy while outsourcing data mining tasks. Knowledge and Information Systems, 2008, 17, 99-120.	2.1	37
96	Determining error bounds for spectral filtering based reconstruction methods in privacy preserving data mining. Knowledge and Information Systems, 2008, 17, 217-240.	2.1	13
97	Randomizing Social Networks: a Spectrum Preserving Approach. , 2008, , .		203
98	On Addressing Accuracy Concerns in Privacy Preserving Association Rule Mining. , 2008, , 124-135.		0
99	Preserving privacy in association rule mining with bloom filters. Journal of Intelligent Information Systems, 2007, 29, 253-278.	2.8	25
100	Deriving Private Information from Arbitrarily Projected Data. , 2007, , 84-95.		19
101	Privacy Preserving Market Basket Data Analysis. Lecture Notes in Computer Science, 2007, , 103-114.	1.0	9
102	Deriving Private Information from Perturbed Data Using IQR Based Approach. , 2006, , .		1
103	An Approach to Outsourcing Data Mining Tasks while Protecting Business Intelligence and Customer Privacy. , 2006, , .		10
104	Incorporating large unlabeled data to enhance EM classification. Journal of Intelligent Information Systems, 2006, 26, 211-226.	2.8	4
105	Exploring gene causal interactions using an enhanced constraint-based method. Pattern Recognition, 2006, 39, 2439-2449.	5.1	7
106	On the use of spectral filtering for privacy preserving data mining. , 2006, , .		9
107	Towards value disclosure analysis in modeling general databases. , 2006, , .		0
108	Disclosure Risk in Dynamic Two-Dimensional Contingency Tables (Extended Abstract). Lecture Notes in Computer Science, 2006, , 349-352.	1.0	1

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109	Disclosure Analysis for Two-Way Contingency Tables. Lecture Notes in Computer Science, 2006, , 57-67.	1.0	2
110	Efficient Causal Interaction Learning with Applications in Microarray. Lecture Notes in Computer Science, 2005, , 622-630.	1.0	0
111	Privacy-Aware Market Basket Data Set Generation: A Feasible Approach for Inverse Frequent Set Mining. , 2005, , .		26
112	Screening and interpreting multi-item associations based on log-linear modeling. , 2003, , .		18
113	Privacy preserving database application testing. , 2003, , .		12
114	Graphical modeling based gene interaction analysis for microarray data. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2003, 5, 91-100.	3.2	4
115	B-EM. , 2002, , .		2
116	Modeling and Imputation of Large Incomplete Multidimensional Datasets. Lecture Notes in Computer Science, 2002, , 286-295.	1.0	8
117	Loglinear-Based Quasi Cubes. Journal of Intelligent Information Systems, 2001, 16, 255-276.	2.8	22
118	Finding Dense Clusters in Hyperspace: An Approach Based on Row Shuffling. Lecture Notes in Computer Science, 2001, , 305-316.	1.0	2
119	Using Loglinear Models to Compress Datacubes. Lecture Notes in Computer Science, 2000, , 311-323.	1.0	17
120	Supporting Online Queries in ROLAP. Lecture Notes in Computer Science, 2000, , 234-243.	1.0	0
121	Using approximations to scale exploratory data analysis in datacubes. , 1999, , .		10
122	Compressing high dimensional datasets by fractals. , 0, , .		0
123	Approximate Inverse Frequent Itemset Mining: Privacy, Complexity, and Approximation. , 0, , .		11
124	Privacy Aware Data Generation for Testing Database Applications. , 0, , .		5