

# Xintao Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Randomizing Social Networks: a Spectrum Preserving Approach. , 2008, , .		203
2	FairGAN: Fairness-aware Generative Adversarial Networks. , 2018, , .		135
3	Adaptive Laplace Mechanism: Differential Privacy Preservation in Deep Learning. , 2017, , .		112
4	SNE: Signed Network Embedding. Lecture Notes in Computer Science, 2017, , 183-195.	1.0	90
5	Deep learning for insider threat detection: Review, challenges and opportunities. Computers and Security, 2021, 104, 102221.	4.0	86
6	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
7	One-Class Adversarial Nets for Fraud Detection. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 1286-1293.	3.6	81
8	A Causal Framework for Discovering and Removing Direct and Indirect Discrimination. , 2017, , .		60
9	Comparisons of randomization and K-degree anonymization schemes for privacy preserving social network publishing. , 2009, , .		56
10	Differential Privacy Preserving Spectral Graph Analysis. Lecture Notes in Computer Science, 2013, , 329-340.	1.0	56
11	Preserving differential privacy in convolutional deep belief networks. Machine Learning, 2017, 106, 1681-1704.	3.4	55
12	An overview of human genetic privacy. Annals of the New York Academy of Sciences, 2017, 1387, 61-72.	1.8	54
13	On Link Privacy in Randomizing Social Networks. Lecture Notes in Computer Science, 2009, , 28-39.	1.0	45
14	Graph Generation with Prescribed Feature Constraints. , 2009, , .		45
15	On link privacy in randomizing social networks. Knowledge and Information Systems, 2011, 28, 645-663.	2.1	39
16	Protecting business intelligence and customer privacy while outsourcing data mining tasks. Knowledge and Information Systems, 2008, 17, 99-120.	2.1	37
17	Generating program inputs for database application testing. , 2011, , .		37
18	Spectrum based fraud detection in social networks. , 2011, , .		34

#	ARTICLE	IF	CITATIONS
19	Achieving Non-Discrimination in Data Release. , 2017, , .		32
20	Counterfactual Fairness: Unidentification, Bound and Algorithm. , 2019, , .		28
21	Achieving Causal Fairness through Generative Adversarial Networks. , 2019, , .		27
22	Privacy-Aware Market Basket Data Set Generation: A Feasible Approach for Inverse Frequent Set Mining. , 2005, , .		26
23	Reconstruction from Randomized Graph via Low Rank Approximation. , 2010, , .		26
24	Guided test generation for database applications via synthesized database interactions. ACM Transactions on Software Engineering and Methodology, 2014, 23, 1-27.	4.8	26
25	Anti-discrimination learning: a causal modeling-based framework. International Journal of Data Science and Analytics, 2017, 4, 1-16.	2.4	26
26	Preserving privacy in association rule mining with bloom filters. Journal of Intelligent Information Systems, 2007, 29, 253-278.	2.8	25
27	Spectrum-based Deep Neural Networks for Fraud Detection. , 2017, , .		23
28	Achieving Differential Privacy and Fairness in Logistic Regression. , 2019, , .		23
29	Loglinear-Based Quasi Cubes. Journal of Intelligent Information Systems, 2001, 16, 255-276.	2.8	22
30	Database state generation via dynamic symbolic execution for coverage criteria. , 2011, , .		21
31	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
32	Heterogeneous Gaussian Mechanism: Preserving Differential Privacy in Deep Learning with Provable Robustness. , 2019, , .		21
33	A spectral approach to detecting subtle anomalies in graphs. Journal of Intelligent Information Systems, 2013, 41, 313-337.	2.8	20
34	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
35	Achieving Non-Discrimination in Prediction. , 2018, , .		20
36	Deriving Private Information from Arbitrarily Projected Data. , 2007, , 84-95.		19

#	ARTICLE	IF	CITATIONS
37	Screening and interpreting multi-item associations based on log-linear modeling. , 2003, , .		18
38	On Discrimination Discovery and Removal in Ranked Data using Causal Graph. , 2018, , .		18
39	Insider Threat Detection via Hierarchical Neural Temporal Point Processes. , 2019, , .		18
40	On learning cluster coefficient of private networks. Social Network Analysis and Mining, 2013, 3, 925-938.	1.9	17
41	Using Loglinear Models to Compress Datacubes. Lecture Notes in Computer Science, 2000, , 311-323.	1.0	17
42	On Randomness Measures for Social Networks. , 2009, , .		16
43	Few-shot Insider Threat Detection. , 2020, , .		15
44	Fairness through Equality of Effort. , 2020, , .		15
45	Preserving Differential Privacy in Degree-Correlation based Graph Generation. Transactions on Data Privacy, 2013, 6, 127-145.	1.0	15
46	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
47	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
48	Automatic test generation for mutation testing on database applications. , 2013, , .		13
49	On Convexity and Bounds of Fairness-aware Classification. , 2019, , .		13
50	Spectral Analysis of k-Balanced Signed Graphs. Lecture Notes in Computer Science, 2011, , 1-12.	1.0	13
51	Privacy preserving database application testing. , 2003, , .		12
52	Incorporating pre-training in long short-term memory networks for tweet classification. Social Network Analysis and Mining, 2018, 8, 1.	1.9	12
53	On Discrimination Discovery Using Causal Networks. Lecture Notes in Computer Science, 2016, , 83-93.	1.0	12
54	Interactive detection of network anomalies via coordinated multiple views. , 2010, , .		12

#	ARTICLE	IF	CITATIONS
55	Approximate Inverse Frequent Itemset Mining: Privacy, Complexity, and Approximation. , 0, , .		11
56	A Spectrum-Based Framework for Quantifying Randomness of Social Networks. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 1842-1856.	4.0	11
57	Using aggregate human genome data for individual identification. , 2013, , .		11
58	Analysis of Spectral Space Properties of Directed Graphs Using Matrix Perturbation Theory with Application in Graph Partition. , 2015, , .		11
59	Using approximations to scale exploratory data analysis in datacubes. , 1999, , .		10
60	An Approach to Outsourcing Data Mining Tasks while Protecting Business Intelligence and Customer Privacy. , 2006, , .		10
61	FairGAN <sup>+</sup> : Achieving Fair Data Generation and Classification through Generative Adversarial Nets. , 2019, , .		10
62	Removing Disparate Impact on Model Accuracy in Differentially Private Stochastic Gradient Descent. , 2021, , .		10
63	Database-Access Performance Antipatterns in Database-Backed Web Applications. , 2020, , .		10
64	On the use of spectral filtering for privacy preserving data mining. , 2006, , .		9
65	Spectrum-Based Network Visualization for Topology Analysis. IEEE Computer Graphics and Applications, 2013, 33, 58-68.	1.0	9
66	Program-input generation for testing database applications using existing database states. Automated Software Engineering, 2015, 22, 439-473.	2.2	9
67	Characteristics of Bitcoin Transactions on Cryptomarkets. Lecture Notes in Computer Science, 2019, , 261-276.	1.0	9
68	oGBAC—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
69	Privacy Preserving Market Basket Data Analysis. Lecture Notes in Computer Science, 2007, , 103-114.	1.0	9
70	Wikipedia Vandal Early Detection: From User Behavior to User Embedding. Lecture Notes in Computer Science, 2017, , 832-846.	1.0	9
71	DPNE: Differentially Private Network Embedding. Lecture Notes in Computer Science, 2018, , 235-246.	1.0	9
72	The Causal Fairness Field Guide: Perspectives From Social and Formal Sciences. Frontiers in Big Data, 2022, 5, 892837.	1.8	9

#	ARTICLE	IF	CITATIONS
73	On Learning Cluster Coefficient of Private Networks. , 2012, , 395-402.		8
74	Security and privacy protocols for perceptual image hashing. International Journal of Sensor Networks, 2015, 17, 146.	0.2	8
75	Using Loglinear Model for Discrimination Discovery and Prevention. , 2016, , .		8
76	Task-specific word identification from short texts using a convolutional neural network1. Intelligent Data Analysis, 2018, 22, 533-550.	0.4	8
77	Modeling and Imputation of Large Incomplete Multidimensional Datasets. Lecture Notes in Computer Science, 2002, , 286-295.	1.0	8
78	Exploring gene causal interactions using an enhanced constraint-based method. Pattern Recognition, 2006, 39, 2439-2449.	5.1	7
79	On Attribute Disclosure in Randomization Based Privacy Preserving Data Publishing. , 2010, , .		7
80	On digital image trustworthiness. Applied Soft Computing Journal, 2016, 48, 240-253.	4.1	7
81	On spectral analysis of directed signed graphs. International Journal of Data Science and Analytics, 2018, 6, 147-162.	2.4	7
82	On Spectral Analysis of Signed and Dispute Graphs. , 2014, , .		6
83	Pairwised Specific Distance Learning from Physical Linkages. ACM Transactions on Knowledge Discovery From Data, 2015, 9, 1-27.	2.5	6
84	Building Bayesian networks from GWAS statistics based on Independence of Causal Influence. , 2016, , .		6
85	A Framework of Privacy Decision Recommendation for Image Sharing in Online Social Networks. , 2016, , .		6
86	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
87	BotFlowMon: Learning-based, Content-Agnostic Identification of Social Bot Traffic Flows. , 2019, , .		6
88	Dynamic Anomaly Detection Using Vector Autoregressive Model. Lecture Notes in Computer Science, 2019, , 600-611.	1.0	6
89	Towards Learning-Based, Content-Agnostic Detection of Social Bot Traffic. IEEE Transactions on Dependable and Secure Computing, 2020, , 1-1.	3.7	6
90	Privacy Aware Data Generation for Testing Database Applications. , 0, , .		5

#	ARTICLE	IF	CITATIONS
91	Incorporating Pre-Training in Long Short-Term Memory Networks for Tweets Classification. , 2016, , .		5
92	Differential Privacy Preserving Causal Graph Discovery. , 2017, , .		5
93	On Burst Detection and Prediction in Retweeting Sequence. Lecture Notes in Computer Science, 2015, , 96-107.	1.0	5
94	On Linear Refinement of Differential Privacy-Preserving Query Answering. Lecture Notes in Computer Science, 2013, , 353-364.	1.0	5
95	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
96	Incorporating large unlabeled data to enhance EM classification. Journal of Intelligent Information Systems, 2006, 26, 211-226.	2.8	4
97	Examining Multi-factor Interactions in Microblogging Based on Log-linear Modeling. , 2012, , .		4
98	Modeling SNP and quantitative trait association from GWAS catalog using CLG Bayesian network. , 2017, , .		4
99	Poisoning Attacks on Fair Machine Learning. Lecture Notes in Computer Science, 2022, , 370-386.	1.0	4
100	Infringement of Individual Privacy via Mining Differentially Private GWAS Statistics. Lecture Notes in Computer Science, 2016, , 355-366.	1.0	3
101	Contrastive Learning for Insider Threat Detection. Lecture Notes in Computer Science, 2022, , 395-403.	1.0	3
102	B-EM. , 2002, , .		2
103	Spectrum based fraud detection in social networks. , 2010, , .		2
104	On Spectral Analysis of Directed Signed Graphs. , 2017, , .		2
105	DPWeka: Achieving Differential Privacy in WEKA. , 2017, , .		2
106	Finding Dense Clusters in Hyperspace: An Approach Based on Row Shuffling. Lecture Notes in Computer Science, 2001, , 305-316.	1.0	2
107	Disclosure Analysis for Two-Way Contingency Tables. Lecture Notes in Computer Science, 2006, , 57-67.	1.0	2
108	Deriving Private Information from Perturbed Data Using IQR Based Approach. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
109	Block-Organized Topology Visualization for Visual Exploration of Signed Networks. , 2015, , .		1
110	Guest Editorial for Special Section on BIBM 2013. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2015, 12, 252-253.	1.9	1
111	Social network dominance based on analysis of asymmetry. , 2016, , .		1
112	STIP: An SNP-trait inference platform. , 2017, , .		1
113	Transferable Contextual Bandits with Prior Observations. Lecture Notes in Computer Science, 2021, , 398-410.	1.0	1
114	AdvPL: Adversarial Personalized Learning. , 2020, , .		1
115	Disclosure Risk in Dynamic Two-Dimensional Contingency Tables (Extended Abstract). Lecture Notes in Computer Science, 2006, , 349-352.	1.0	1
116	Multi-cause Discrimination Analysis Using Potential Outcomes. Lecture Notes in Computer Science, 2020, , 224-234.	1.0	1
117	Compressing high dimensional datasets by fractals. , 0, , .		0
118	Efficient Causal Interaction Learning with Applications in Microarray. Lecture Notes in Computer Science, 2005, , 622-630.	1.0	0
119	Towards value disclosure analysis in modeling general databases. , 2006, , .		0
120	On the Quantification of Identity and Link Disclosures in Randomizing Social Networks. Studies in Computational Intelligence, 2009, , 91-116.	0.7	0
121	Enhancing personalized modeling via weighted and adversarial learning. International Journal of Data Science and Analytics, 2021, 12, 1-14.	2.4	0
122	Supporting Online Queries in ROLAP. Lecture Notes in Computer Science, 2000, , 234-243.	1.0	0
123	Limiting Attribute Disclosure in Randomization Based Microdata Release. Journal of Computing Science and Engineering, 2011, 5, 169-182.	0.3	0
124	On Addressing Accuracy Concerns in Privacy Preserving Association Rule Mining. , 2008, , 124-135.		0