Huan Liu

List of Publications by Year
in descending order

199 papers	17,386 citations	109321 35 h-index	42399 92 g-index
205 all docs	205 docs citations	205 times ranked	10351 citing authors

#	Article	IF	Citations
1	Collaborative Filtering With Network Representation Learning for Citation Recommendation. IEEE Transactions on Big Data, 2022, 8, 1233-1246.	6.1	19
2	Social Bots and Their Coordination During Online Campaigns: A Survey. IEEE Transactions on Computational Social Systems, 2022, 9, 530-545.	4.4	18
3	Learning Shared Mobility-Aware Knowledge for Multiple Urban Travel Demands. IEEE Internet of Things Journal, 2022, 9, 7025-7035.	8.7	5
4	Integrating Multimodal and Longitudinal Neuroimaging Data with Multi-Source Network Representation Learning. Neuroinformatics, 2022, 20, 301-316.	2.8	3
5	Cross-Domain Graph Anomaly Detection. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2406-2415.	11.3	7
6	Deep Graph Learning for Anomalous Citation Detection. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2543-2557.	11.3	17
7	Evaluation Methods and Measures for Causal Learning Algorithms. IEEE Transactions on Artificial Intelligence, 2022, 3, 924-943.	4.7	15
8	Blockchain-Based Offline Auditing for the Cloud in Vehicular Networks. IEEE Transactions on Network and Service Management, 2022, 19, 2944-2956.	4.9	4
9	Domain Adaptive Fake News Detection via Reinforcement Learning. , 2022, , .		20
10	Characterizing multi-domain false news and underlying user effects on Chinese Weibo. Information Processing and Management, 2022, 59, 102959.	8.6	11
11	Detecting Fake News With Weak Social Supervision. IEEE Intelligent Systems, 2021, 36, 96-103.	4.0	12
12	To Your Surprise: Identifying Serendipitous Collaborators. IEEE Transactions on Big Data, 2021, 7, 574-589.	6.1	10
13	Incremental one-class collaborative filtering with co-evolving side networks. Knowledge and Information Systems, 2021, 63, 105-124.	3.2	2
14	Guest Editorial: Scholarly Big Data. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 200-203.	4.6	1
15	Session-Based Cyberbullying Detection: Problems and Challenges. IEEE Internet Computing, 2021, 25, 66-72.	3.3	9
16	Few-shot Network Anomaly Detection via Cross-network Meta-learning. , 2021, , .		42
17	Efficient Continuous Big Data Integrity Checking for Decentralized Storage. IEEE Transactions on Network Science and Engineering, 2021, 8, 1658-1673.	6.4	14
18	Graph Learning: A Survey. IEEE Transactions on Artificial Intelligence, 2021, 2, 109-127.	4.7	165

#	Article	IF	Citations
19	Guest Editorial: Non-IID Outlier Detection in Complex Contexts. IEEE Intelligent Systems, 2021, 36, 3-4.	4.0	0
20	Causal Learning for Socially Responsible AI. , 2021, , .		2
21	Guest Editorial Computational Social Systems for COVID-19 Emergency Management and Beyond. IEEE Transactions on Computational Social Systems, 2021, 8, 928-929.	4.4	2
22	Profiling Fake News Spreaders on Social Media through Psychological and Motivational Factors. , 2021, , .		14
23	Spatial Community-Informed Evolving Graphs for Demand Prediction. Lecture Notes in Computer Science, 2021, , 440-456.	1.3	3
24	A Survey of Learning Causality with Data. ACM Computing Surveys, 2021, 53, 1-37.	23.0	72
25	Causal inference for time series analysis: problems, methods and evaluation. Knowledge and Information Systems, 2021, 63, 3041-3085.	3.2	39
26	Generating Topic-Preserving Synthetic News. , 2021, , .		1
27	Combating disinformation in a social media age. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2020, 10, e1385.	6.8	50
28	FakeNewsNet: A Data Repository with News Content, Social Context, and Spatiotemporal Information for Studying Fake News on Social Media. Big Data, 2020, 8, 171-188.	3.4	384
29	Detecting Pattern Anomalies in Hydrological Time Series with Weighted Probabilistic Suffix Trees. Water (Switzerland), 2020, 12, 1464.	2.7	3
30	Joint Spatial and Temporal Modeling for Hydrological Prediction. IEEE Access, 2020, 8, 78492-78503.	4.2	10
31	Editorial: Innovations and Perspectives in Data Mining and Knowledge Discovery. Frontiers in Big Data, 2020, 3, 637906.	2.9	0
32	Mining Disinformation and Fake News: Concepts, Methods, and Recent Advancements. Lecture Notes in Social Networks, 2020, , 1-19.	0.1	36
33	Toward A Multilingual and Multimodal Data Repository for COVID-19 Disinformation. , 2020, , .		24
34	Graph Prototypical Networks for Few-shot Learning on Attributed Networks. , 2020, , .		63
35	Unsupervised Cyberbullying Detection via Time-Informed Gaussian Mixture Model. , 2020, , .		26
36	Inductive Anomaly Detection on Attributed Networks. , 2020, , .		33

#	Article	IF	Citations
37	Be More with Less: Hypergraph Attention Networks for Inductive Text Classification. , 2020, , .		78
38	Learning Latent Perception Graphs for Personalized Unknowns Recommendation. , 2020, , .		1
39	Towards privacy preserving social recommendation under personalized privacy settings. World Wide Web, 2019, 22, 2853-2881.	4.0	16
40	Hierarchical Attention Networks for Cyberbullying Detection on the Instagram Social Network. , 2019, , 235-243.		49
41	Deep Anomaly Detection on Attributed Networks. , 2019, , 594-602.		172
42	Academic Team Formulation Based on Liebigâ€™s Barrel: Discovery of Anticask Effect. IEEE Transactions on Computational Social Systems, 2019, 6, 1083-1094.	4.4	20
43	Detecting Fake News on Social Media. Synthesis Lectures on Data Mining and Knowledge Discovery, 2019, 11, 1-129.	0.5	22
44	Unsupervised Fake News Detection on Social Media: A Generative Approach. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 5644-5651.	4.9	156
45	dEFEND. , 2019, , .		302
46	Robust Cyberbullying Detection with Causal Interpretation. , 2019, , .		16
47	Signed Link Prediction with Sparse Data: The Role of Personality Information. , 2019, , .		9
48	Interactive Anomaly Detection on Attributed Networks. , 2019, , .		75
49	Beyond News Contents. , 2019, , .		296
50	Toward Keyword Extraction in Constrained Information Retrieval in Vehicle Social Network. IEEE Transactions on Vehicular Technology, 2019, 68, 4285-4294.	6.3	17
51	XBully. , 2019, , .		69
52	Abductive Causal Reasoning for Internet of Things. , 2019, , .		2
53	The role of user profiles for fake news detection. , 2019, , .		103
54	FakeNewsTracker: a tool for fake news collection, detection, and visualization. Computational and Mathematical Organization Theory, 2019, 25, 60-71.	2.0	111

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55	Studying Fake News via Network Analysis: Detection and Mitigation. Lecture Notes in Social Networks, 2019, , 43-65.	0.1	72
56	Bot Detection: Will Focusing on Recall Cause Overall Performance Deterioration?. Lecture Notes in Computer Science, 2019, , 39-49.	1.3	4
57	Misinformation in Social Media. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2019, 21, 80-90.	4.0	184
58	PI-Bully: Personalized Cyberbullying Detection with Peer Influence. , 2019, , .		18
59	Tracing Fake-News Footprints. , 2018, , .		191
60	CrossFire. , 2018, , .		22
61	Streaming Link Prediction on Dynamic Attributed Networks. , 2018, , .		31
62	Exploring Hierarchical Structures for Recommender Systems. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1022-1035.	5.7	48
63	Toward online node classification on streaming networks. Data Mining and Knowledge Discovery, 2018, 32, 231-257.	3.7	31
64	Adaptive Implicit Friends Identification over Heterogeneous Network for Social Recommendation. , 2018, , .		81
65	Beyond the Scale of Big Data. Frontiers in Big Data, 2018, 1, 1.	2.9	4
66	SlangSD: building, expanding and using a sentiment dictionary of slang words for short-text sentiment classification. Language Resources and Evaluation, 2018, 52, 839-852.	2.7	33
67	Social Cyber-Security. Lecture Notes in Computer Science, 2018, , 389-394.	1.3	28
68	Exploiting Multilabel Information for Noise-Resilient Feature Selection. ACM Transactions on Intelligent Systems and Technology, 2018, 9, 1-23.	4.5	5
69	Understanding User Profiles on Social Media for Fake News Detection. , 2018, , .		188
70	A Matlab-based digital-physical hybrid real-time simulation platform for power system. , 2018, , .		0
71	INITIATOR: Noise-contrastive Estimation for Marked Temporal Point Process. , 2018, , .		6
72	ANOMALOUS: A Joint Modeling Approach for Anomaly Detection on Attributed Networks. , 2018, , .		62

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73	Multimodal Fusion of Brain Networks with Longitudinal Couplings. Lecture Notes in Computer Science, 2018, 11072, 3-11.	1.3	3
74	A Survey of Signed Network Mining in Social Media. ACM Computing Surveys, 2017, 49, 1-37.	23.0	192
75	Legislative prediction with dual uncertainty minimization from heterogeneous information. Statistical Analysis and Data Mining, 2017, 10, 107-120.	2.8	1
76	Big Scholarly Data: A Survey. IEEE Transactions on Big Data, 2017, 3, 18-35.	6.1	208
77	Recent advances in feature selection and its applications. Knowledge and Information Systems, 2017, 53, 551-577.	3.2	238
78	Toward Personalized Relational Learning. , 2017, , 444-452.		18
79	Unsupervised Feature Selection in Signed Social Networks. , 2017, , .		52
80	Discovering, assessing, and mitigating data bias in social media. Online Social Networks and Media, 2017, 1, 1-13.	3.6	43
81	Attributed Network Embedding for Learning in a Dynamic Environment. , 2017, , .		226
82	Maximum Distance Minimum Error (MDME): A non-parametric approach to feature selection for image-based high content screening data. , 2017, , .		0
83	Sentiment Informed Cyberbullying Detection in Social Media. Lecture Notes in Computer Science, 2017, , 52-67.	1.3	48
84	Fake News Detection on Social Media. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2017, 19, 22-36.	4.0	1,710
85	Radar: Residual Analysis for Anomaly Detection in Attributed Networks. , 2017, , .		81
86	Learning Homophily Couplings from Non-IID Data for Joint Feature Selection and Noise-Resilient Outlier Detection. , 2017, , .		27
87	Unsupervised Feature Selection for Outlier Detection by Modelling Hierarchical Value-Feature Couplings. , 2016, , .		30
88	Toward Time-Evolving Feature Selection on Dynamic Networks. , 2016, , .		38
89	Can One Tamper with the Sample API?. , 2016, , .		13
90	A new approach to bot detection: Striking the balance between precision and recall. , 2016, , .		102

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91	Recommendations in Signed Social Networks. , 2016, , .		70
92	The good, the bad, and the ugly: uncovering novel research opportunities in social media mining. International Journal of Data Science and Analytics, 2016, 1, 137-143.	4.1	26
93	Robust Unsupervised Feature Selection on Networked Data. , 2016, , .		34
94	Exploring characteristics of suspended users and network stability on Twitter. Social Network Analysis and Mining, 2016, 6, 1.	2.8	23
95	Directed dynamical influence is more detectable with noise. Scientific Reports, 2016, 6, 24088.	3.3	17
96	An Overview of Sentiment Analysis in Social Media and Its Applications in Disaster Relief. Studies in Computational Intelligence, 2016, , 313-340.	0.9	122
97	PPP: Joint Pointwise and Pairwise Image Label Prediction. , 2016, , .		14
98	A Novel Measure for Coherence in Statistical Topic Models. , 2016, , .		7
99	The Fragility of Twitter Social Networks Against Suspended Users. , 2015, , .		20
100	Exploring a Scalable Solution to Identifying Events in Noisy Twitter Streams. , 2015, , .		13
101	A Local SVD Framework for Stable Feature Selection for Clustering. , 2015, , .		0
102	Text, Topics, and Turkers. , 2015, , .		3
103	Evaluation without ground truth in social media research. Communications of the ACM, 2015, 58, 54-60.	4.5	31
104	Finding the Right Social Media Site for Questions. , 2015, , .		4
105	Real-Time Crisis Mapping Using Language Distribution. , 2015, , .		3
106	Social Answer: A System for Finding Appropriate Sites for Questions in Social Media. , 2015, , .		0
107	Online diffusion source detection in social networks. , 2015, , .		2
108	Context-Aware Experience Extraction from Online Health Forums. , 2015, , .		7

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109	Embracing Information Explosion without Choking: Clustering and Labeling in Microblogging. IEEE Transactions on Big Data, 2015, 1, 35-46.	6.1	7
110	Negative Link Prediction in Social Media. , 2015, , .		94
111	Trust Evolution: Modeling and Its Applications. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1724-1738.	5.7	24
112	Trust in Social Media. Synthesis Lectures on Information Security Privacy and Trust, 2015, 10, 1-129.	0.3	21
113	10 Bits of Surprise. , 2015, , .		23
114	User Identification Across Social Media. ACM Transactions on Knowledge Discovery From Data, 2015, 10, 1-30.	3.5	66
115	Addressing the cold-start problem in location recommendation using geo-social correlations. Data Mining and Knowledge Discovery, 2015, 29, 299-323.	3.7	52
116	Unsupervised Streaming Feature Selection in Social Media. , 2015, , .		68
117	Abstract 15947: Machine Learning to Predict Rapid Progression of Carotid Atherosclerosis in Patients With Impaired Glucose Tolerance in the ACT NOW Study. Circulation, 2015, 132, .	1.6	0
118	Mining social media with social theories. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2014, 15, 20-29.	4.0	100
119	Trust in social computing. , 2014, , .		13
120	Dual Uncertainty Minimization Regularization and Its Applications on Heterogeneous Data. , 2014, , .		2
121	Temporal dynamics in social trust prediction. Wuhan University Journal of Natural Sciences, 2014, 19, 369-378.	0.4	8
122	Scaling and correlation of human movements in cyberspace and physical space. Physical Review E, 2014, 90, 050802.	2.1	32
123	Social Role Identification via Dual Uncertainty Minimization Regularization. , 2014, , .		8
124	Information Diffusion in Social Media. , 2014, , 179-214.		8
125	Data Analysis on Location-Based Social Networks. , 2014, , 165-194.		63
126	Uncovering deception in social media. Social Network Analysis and Mining, 2014, 4, 1.	2.8	16

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127	Twitter Data Analytics. SpringerBriefs in Computer Science, 2014, , .	0.2	171
128	Feature Selection for Social Media Data. ACM Transactions on Knowledge Discovery From Data, 2014, 8, 1-27.	3.5	17
129	An Unsupervised Feature Selection Framework for Social Media Data. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 2914-2927.	5.7	55
130	Embassies burning: toward a near-real-time assessment of social media using geo-temporal dynamic network analytics. Social Network Analysis and Mining, 2014, 4, 1.	2.8	4
131	Discovering Social Events through Online Attention. PLoS ONE, 2014, 9, e102001.	2.5	8
132	Learning with multi-resolution overlapping communities. Knowledge and Information Systems, 2013, 36, 517-535.	3.2	24
133	Exploiting social relations for sentiment analysis in microblogging. , 2013, , .		262
134	Context-aware review helpfulness rating prediction. , 2013, , .		46
135	Connecting users across social media sites. , 2013, , .		323
136	Measuring User Credibility in Social Media. Lecture Notes in Computer Science, 2013, , 441-448.	1.3	105
137	Social recommendation: a review. Social Network Analysis and Mining, 2013, 3, 1113-1133.	2.8	374
138	On Similarity Preserving Feature Selection. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 619-632.	5.7	249
139	Network denoising in social media. , 2013, , .		5
140	Provenance Data in Social Media. Synthesis Lectures on Data Mining and Knowledge Discovery, 2013, 4, 1-84.	0.5	33
141	Exploring temporal effects for location recommendation on location-based social networks. , 2013, , .		354
142	Unsupervised Feature Selection for Multi-View Data in Social Media. , 2013, , .		86
143	Exploiting homophily effect for trust prediction. , 2013, , .		213
144	Understanding Twitter data with TweetXplorer. , 2013, , .		54

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145	Modeling temporal effects of human mobile behavior on location-based social networks. , 2013, , .		64
146	CoSelect: Feature Selection with Instance Selection for Social Media Data. , 2013, , .		25
147	Identifying Evolving Groups in Dynamic Multimode Networks. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 72-85.	5.7	77
148	mTrust. , 2012, , .		272
149	Unsupervised feature selection for linked social media data. , 2012, , .		135
150	gSCorr. , 2012, , .		155
151	Feature Selection with Linked Data in Social Media. , 2012, , .		87
152	Discovering Trust Networks for the Selection of Trustworthy Service Providers in Complex Contextual Social Networks. , 2012, , .		22
153	Ensemble Feature Selection in Face Recognition: ICMLA 2012 Challenge. , 2012, , .		2
154	eTrust. , 2012, , .		162
155	Text Analytics in Social Media. , 2012, , 385-414.		107
156	Modeling blogger influence in a community. Social Network Analysis and Mining, 2012, 2, 139-162.	2.8	57
157	Community detection via heterogeneous interaction analysis. Data Mining and Knowledge Discovery, 2012, 25, 1-33.	3.7	169
158	Scalable Learning of Collective Behavior. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1080-1091.	5.7	33
159	Analyzing Behavior of the Influentials Across Social Media. , 2012, , 3-19.		15
160	The Effect of the Characteristics of the Dataset on the Selection Stability. , 2011, , .		24
161	A Dilemma in Assessing Stability of Feature Selection Algorithms. , 2011, , .		28
162	Extracting geographic knowledge from sensor intervention data using spatial association rules. , 2011, , .		2

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163	Understanding online groups through social media. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2011, 1, 330-338.	6.8	13
164	Leveraging social media networks for classification. Data Mining and Knowledge Discovery, 2011, 23, 447-478.	3.7	262
165	Quantifying the trustworthiness of social media content. Distributed and Parallel Databases, 2011, 29, 239-260.	1.6	33
166	Group Profiling for Understanding Social Structures. ACM Transactions on Intelligent Systems and Technology, 2011, 3, 1-25.	4.5	22
167	Sensor networks: decentralized monitoring and subspace classification of events. International Journal of General Systems, 2011, 40, 457-483.	2.5	4
168	Discovering Overlapping Groups in Social Media. , 2010, , .		112
169	WisColl: Collective wisdom based blog clustering. Information Sciences, 2010, 180, 39-61.	6.9	36
170	An Integrative Approach to Identifying Biologically Relevant Genes. , 2010, , .		9
171	Towards Building a Social Computing Tool for Social Scientists. , 2010, , .		1
172	Community Detection and Mining in Social Media. Synthesis Lectures on Data Mining and Knowledge Discovery, 2010, 2, 1-137.	0.5	200
173	Toward Predicting Collective Behavior via Social Dimension Extraction. IEEE Intelligent Systems, 2010, 25, 19-25.	4.0	54
174	Border Security: Supplementing Human Intelligence in a Sensor Network Using Sequential Pattern Mining. , 2010, , .		0
175	Sentiment Propagation in Social Networks: A Case Study in LiveJournal. Lecture Notes in Computer Science, 2010, , 413-420.	1.3	19
176	Scalable learning of collective behavior based on sparse social dimensions. , 2009, , .		156
177	Relational learning via latent social dimensions. , 2009, , .		503
178	Evaluating the trustworthiness of Wikipedia articles through quality and credibility. , 2009, , .		12
179	Searching for interacting features in subset selection1. Intelligent Data Analysis, 2009, 13, 207-228.	0.9	76
180	Quantifying Utility and Trustworthiness for Advice Shared on Online Social Media. , 2009, , .		2

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181	Integrating Knowledge in Search of Biologically Relevant Genes. , 2009, , .		0
182	Uncovering Groups via Heterogeneous Interaction Analysis. , 2009, , .		90
183	Clustering Blogs with Collective Wisdom. , 2008, , .		16
184	Community evolution in dynamic multi-mode networks. , 2008, , .		182
185	Identifying the influential bloggers in a community. , 2008, , .		355
186	Adaptive Distance Metric Learning for Clustering. , 2007, , .		80
187	Predicting Future High-Cost Patients: A Real-World Risk Modeling Application. , 2007, , .		18
188	Discovering mappings in hierarchical data from multiple sources using the inherent structure. Knowledge and Information Systems, 2006, 10, 185-210.	3.2	8
189	Toward integrating feature selection algorithms for classification and clustering. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 491-502.	5.7	1,915
190	Sampling from databases using B+-Trees. Intelligent Data Analysis, 2002, 6, 359-377.	0.9	0
191	On Issues of Instance Selection. Data Mining and Knowledge Discovery, 2002, 6, 115-130.	3.7	157
192	Discretization: An Enabling Technique. Data Mining and Knowledge Discovery, 2002, 6, 393-423.	3.7	729
193	Efficient yet accurate clustering. , 0, , .		2
194	Feature selection for clustering - a filter solution. , 0, , .		192
195	Situation-aware personalized information retrieval for mobile Internet. , 0, , .		19
196	Sensor selection for maneuver classification. , 0, , .		9
197	Bias Analysis in Text Classification for Highly Skewed Data. , 0, , .		21
198	Mining Social Media: A Brief Introduction. , 0, , 1-17.		116

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199	CausalSE: Understanding Varied Spatial Effects with Missing Data Towards Adding New Bike-sharing Stations. ACM Transactions on Knowledge Discovery From Data, 0, , .	3.5	1