Huan Liu

List of Publications by Year
in descending order

199 papers	17,386 citations	109264 35 h-index	42364 92 g-index
205 all docs	205 docs citations	205 times ranked	10351 citing authors

#	Article	IF	Citations
1	Toward integrating feature selection algorithms for classification and clustering. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 491-502.	4.0	1,915
2	Fake News Detection on Social Media. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2017, 19, 22-36.	3.2	1,710
3	Discretization: An Enabling Technique. Data Mining and Knowledge Discovery, 2002, 6, 393-423.	2.4	729
4	Relational learning via latent social dimensions. , 2009, , .		503
5	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.	2.1	384
6	Social recommendation: a review. Social Network Analysis and Mining, 2013, 3, 1113-1133.	1.9	374
7	Identifying the influential bloggers in a community. , 2008, , .		355
8	Exploring temporal effects for location recommendation on location-based social networks. , 2013, , .		354
9	Connecting users across social media sites. , 2013, , .		323
10	dEFEND. , 2019, , .		302
11	Beyond News Contents. , 2019, , .		296
12	mTrust. , 2012, , .		272
13	Leveraging social media networks for classification. Data Mining and Knowledge Discovery, 2011, 23, 447-478.	2.4	262
14	Exploiting social relations for sentiment analysis in microblogging. , 2013, , .		262
15	On Similarity Preserving Feature Selection. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 619-632.	4.0	249
16	Recent advances in feature selection and its applications. Knowledge and Information Systems, 2017, 53, 551-577.	2.1	238
17	Attributed Network Embedding for Learning in a Dynamic Environment. , 2017, , .		226
18	Exploiting homophily effect for trust prediction. , 2013, , .		213

#	Article	IF	Citations
19	Big Scholarly Data: A Survey. IEEE Transactions on Big Data, 2017, 3, 18-35.	4.4	208
20	Community Detection and Mining in Social Media. Synthesis Lectures on Data Mining and Knowledge Discovery, 2010, 2, 1-137.	0.5	200
21	Feature selection for clustering - a filter solution. , 0, , .		192
22	A Survey of Signed Network Mining in Social Media. ACM Computing Surveys, 2017, 49, 1-37.	16.1	192
23	Tracing Fake-News Footprints. , 2018, , .		191
24	Understanding User Profiles on Social Media for Fake News Detection. , 2018, , .		188
25	Misinformation in Social Media. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2019, 21, 80-90.	3.2	184
26	Community evolution in dynamic multi-mode networks. , 2008, , .		182
27	Deep Anomaly Detection on Attributed Networks. , 2019, , 594-602.		172
28	Twitter Data Analytics. SpringerBriefs in Computer Science, 2014, , .	0.2	171
29	Community detection via heterogeneous interaction analysis. Data Mining and Knowledge Discovery, 2012, 25, 1-33.	2.4	169
30	Graph Learning: A Survey. IEEE Transactions on Artificial Intelligence, 2021, 2, 109-127.	3.4	165
31	eTrust. , 2012, , .		162
32	On Issues of Instance Selection. Data Mining and Knowledge Discovery, 2002, 6, 115-130.	2.4	157
33	Scalable learning of collective behavior based on sparse social dimensions. , 2009, , .		156
34	Unsupervised Fake News Detection on Social Media: A Generative Approach. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 5644-5651.	3.6	156
35	gSCorr. , 2012, , .		155
36	Unsupervised feature selection for linked social media data. , 2012, , .		135

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37	An Overview of Sentiment Analysis in Social Media and Its Applications in Disaster Relief. Studies in Computational Intelligence, 2016, , 313-340.	0.7	122
38	Mining Social Media: A Brief Introduction. , 0, , 1-17.		116
39	Discovering Overlapping Groups in Social Media. , 2010, , .		112
40	FakeNewsTracker: a tool for fake news collection, detection, and visualization. Computational and Mathematical Organization Theory, 2019, 25, 60-71.	1.5	111
41	Text Analytics in Social Media. , 2012, , 385-414.		107
42	Measuring User Credibility in Social Media. Lecture Notes in Computer Science, 2013, , 441-448.	1.0	105
43	The role of user profiles for fake news detection. , 2019, , .		103
44	A new approach to bot detection: Striking the balance between precision and recall. , 2016, , .		102
45	Mining social media with social theories. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2014, 15, 20-29.	3.2	100
46	Negative Link Prediction in Social Media. , 2015, , .		94
47	Uncoverning Groups via Heterogeneous Interaction Analysis. , 2009, , .		90
48	Feature Selection with Linked Data in Social Media. , 2012, , .		87
49	Unsupervised Feature Selection for Multi-View Data in Social Media. , 2013, , .		86
50	Adaptive Implicit Friends Identification over Heterogeneous Network for Social Recommendation. , 2018, , .		81
51	Radar: Residual Analysis for Anomaly Detection in Attributed Networks. , 2017, , .		81
52	Adaptive Distance Metric Learning for Clustering. , 2007, , .		80
53	Be More with Less: Hypergraph Attention Networks for Inductive Text Classification. , 2020, , .		78
54	Identifying Evolving Groups in Dynamic Multimode Networks. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 72-85.	4.0	77

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55	Searching for interacting features in subset selection1. Intelligent Data Analysis, 2009, 13, 207-228.	0.4	76
56	Interactive Anomaly Detection on Attributed Networks. , 2019, , .		75
57	Studying Fake News via Network Analysis: Detection and Mitigation. Lecture Notes in Social Networks, 2019, , 43-65.	0.8	72
58	A Survey of Learning Causality with Data. ACM Computing Surveys, 2021, 53, 1-37.	16.1	72
59	Recommendations in Signed Social Networks. , 2016, , .		70
60	XBully. , 2019, , .		69
61	Unsupervised Streaming Feature Selection in Social Media. , 2015, , .		68
62	User Identification Across Social Media. ACM Transactions on Knowledge Discovery From Data, 2015, 10, 1-30.	2.5	66
63	Modeling temporal effects of human mobile behavior on location-based social networks. , 2013, , .		64
64	Data Analysis on Location-Based Social Networks. , 2014, , 165-194.		63
65	Graph Prototypical Networks for Few-shot Learning on Attributed Networks. , 2020, , .		63
66	ANOMALOUS: A Joint Modeling Approach for Anomaly Detection on Attributed Networks. , 2018, , .		62
67	Modeling blogger influence in a community. Social Network Analysis and Mining, 2012, 2, 139-162.	1.9	57
68	An Unsupervised Feature Selection Framework for Social Media Data. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 2914-2927.	4.0	55
69	Toward Predicting Collective Behavior via Social Dimension Extraction. IEEE Intelligent Systems, 2010, 25, 19-25.	4.0	54
70	Understanding Twitter data with TweetXplorer. , 2013, , .		54
71	Addressing the cold-start problem in location recommendation using geo-social correlations. Data Mining and Knowledge Discovery, 2015, 29, 299-323.	2.4	52
72	Unsupervised Feature Selection in Signed Social Networks. , 2017, , .		52

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73	Combating disinformation in a social media age. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2020, 10, e1385.	4.6	50
74	Hierarchical Attention Networks for Cyberbullying Detection on the Instagram Social Network. , 2019, , 235-243.		49
75	Exploring Hierarchical Structures for Recommender Systems. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1022-1035.	4.0	48
76	Sentiment Informed Cyberbullying Detection in Social Media. Lecture Notes in Computer Science, 2017, , 52-67.	1.0	48
77	Context-aware review helpfulness rating prediction. , 2013, , .		46
78	Discovering, assessing, and mitigating data bias in social media. Online Social Networks and Media, 2017, 1, 1-13.	2.3	43
79	Few-shot Network Anomaly Detection via Cross-network Meta-learning. , 2021, , .		42
80	Causal inference for time series analysis: problems, methods and evaluation. Knowledge and Information Systems, 2021, 63, 3041-3085.	2.1	39
81	Toward Time-Evolving Feature Selection on Dynamic Networks. , 2016, , .		38
82	WisColl: Collective wisdom based blog clustering. Information Sciences, 2010, 180, 39-61.	4.0	36
83	Mining Disinformation and Fake News: Concepts, Methods, and Recent Advancements. Lecture Notes in Social Networks, 2020, , 1-19.	0.8	36
84	Robust Unsupervised Feature Selection on Networked Data. , 2016, , .		34
85	Quantifying the trustworthiness of social media content. Distributed and Parallel Databases, 2011, 29, 239-260.	1.0	33
86	Scalable Learning of Collective Behavior. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1080-1091.	4.0	33
87	Provenance Data in Social Media. Synthesis Lectures on Data Mining and Knowledge Discovery, 2013, 4, 1-84.	0.5	33
88	SlangSD: building, expanding and using a sentiment dictionary of slang words for short-text sentiment classification. Language Resources and Evaluation, 2018, 52, 839-852.	1.8	33
89	Inductive Anomaly Detection on Attributed Networks. , 2020, , .		33
90	Scaling and correlation of human movements in cyberspace and physical space. Physical Review E, 2014, 90, 050802.	0.8	32

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91	Evaluation without ground truth in social media research. Communications of the ACM, 2015, 58, 54-60.	3.3	31
92	Streaming Link Prediction on Dynamic Attributed Networks. , 2018, , .		31
93	Toward online node classification on streaming networks. Data Mining and Knowledge Discovery, 2018, 32, 231-257.	2.4	31
94	Unsupervised Feature Selection for Outlier Detection by Modelling Hierarchical Value-Feature Couplings. , 2016, , .		30
95	A Dilemma in Assessing Stability of Feature Selection Algorithms. , 2011, , .		28
96	Social Cyber-Security. Lecture Notes in Computer Science, 2018, , 389-394.	1.0	28
97	Learning Homophily Couplings from Non-IID Data for Joint Feature Selection and Noise-Resilient Outlier Detection. , 2017, , .		27
98	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.	2.4	26
99	Unsupervised Cyberbullying Detection via Time-Informed Gaussian Mixture Model. , 2020, , .		26
100	CoSelect: Feature Selection with Instance Selection for Social Media Data. , 2013, , .		25
101	The Effect of the Characteristics of the Dataset on the Selection Stability. , 2011, , .		24
102	Learning with multi-resolution overlapping communities. Knowledge and Information Systems, 2013, 36, 517-535.	2.1	24
103	Trust Evolution: Modeling and Its Applications. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1724-1738.	4.0	24
104	Toward A Multilingual and Multimodal Data Repository for COVID-19 Disinformation. , 2020, , .		24
105	10 Bits of Surprise. , 2015, , .		23
106	Exploring characteristics of suspended users and network stability on Twitter. Social Network Analysis and Mining, 2016, 6, 1.	1.9	23
107	Group Profiling for Understanding Social Structures. ACM Transactions on Intelligent Systems and Technology, 2011, 3, 1-25.	2.9	22
108	Discovering Trust Networks for the Selection of Trustworthy Service Providers in Complex Contextual Social Networks. , 2012, , .		22

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109	CrossFire. , 2018, , .		22
110	Detecting Fake News on Social Media. Synthesis Lectures on Data Mining and Knowledge Discovery, 2019, 11, 1-129.	0.5	22
111	Bias Analysis in Text Classification for Highly Skewed Data. , 0, , .		21
112	Trust in Social Media. Synthesis Lectures on Information Security Privacy and Trust, 2015, 10, 1-129.	0.3	21
113	The Fragility of Twitter Social Networks Against Suspended Users. , 2015, , .		20
114	Academic Team Formulation Based on Liebigâ€™s Barrel: Discovery of Anticask Effect. IEEE Transactions on Computational Social Systems, 2019, 6, 1083-1094.	3.2	20
115	Domain Adaptive Fake News Detection via Reinforcement Learning. , 2022, , .		20
116	Situation-aware personalized information retrieval for mobile Internet. , 0, , .		19
117	Collaborative Filtering With Network Representation Learning for Citation Recommendation. IEEE Transactions on Big Data, 2022, 8, 1233-1246.	4.4	19
118	Sentiment Propagation in Social Networks: A Case Study in LiveJournal. Lecture Notes in Computer Science, 2010, , 413-420.	1.0	19
119	Predicting Future High-Cost Patients: A Real-World Risk Modeling Application. , 2007, , .		18
120	Toward Personalized Relational Learning. , 2017, , 444-452.		18
121	Social Bots and Their Coordination During Online Campaigns: A Survey. IEEE Transactions on Computational Social Systems, 2022, 9, 530-545.	3.2	18
122	PI-Bully: Personalized Cyberbullying Detection with Peer Influence. , 2019, , .		18
123	Feature Selection for Social Media Data. ACM Transactions on Knowledge Discovery From Data, 2014, 8, 1-27.	2.5	17
124	Directed dynamical influence is more detectable with noise. Scientific Reports, 2016, 6, 24088.	1.6	17
125	Toward Keyword Extraction in Constrained Information Retrieval in Vehicle Social Network. IEEE Transactions on Vehicular Technology, 2019, 68, 4285-4294.	3.9	17
126	Deep Graph Learning for Anomalous Citation Detection. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2543-2557.	7.2	17

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127	Clustering Blogs with Collective Wisdom. , 2008, , .		16
128	Uncovering deception in social media. Social Network Analysis and Mining, 2014, 4, 1.	1.9	16
129	Towards privacy preserving social recommendation under personalized privacy settings. World Wide Web, 2019, 22, 2853-2881.	2.7	16
130	Robust Cyberbullying Detection with Causal Interpretation. , 2019, , .		16
131	Analyzing Behavior of the Influentials Across Social Media. , 2012, , 3-19.		15
132	Evaluation Methods and Measures for Causal Learning Algorithms. IEEE Transactions on Artificial Intelligence, 2022, 3, 924-943.	3.4	15
133	Efficient Continuous Big Data Integrity Checking for Decentralized Storage. IEEE Transactions on Network Science and Engineering, 2021, 8, 1658-1673.	4.1	14
134	Profiling Fake News Spreaders on Social Media through Psychological and Motivational Factors. , 2021, , .		14
135	PPP: Joint Pointwise and Pairwise Image Label Prediction. , 2016, , .		14
136	Understanding online groups through social media. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2011, 1, 330-338.	4.6	13
137	Trust in social computing. , 2014, , .		13
138	Exploring a Scalable Solution to Identifying Events in Noisy Twitter Streams. , 2015, , .		13
139	Can One Tamper with the Sample API?. , 2016, , .		13
140	Evaluating the trustworthiness of Wikipedia articles through quality and credibility. , 2009, , .		12
141	Detecting Fake News With Weak Social Supervision. IEEE Intelligent Systems, 2021, 36, 96-103.	4.0	12
142	Characterizing multi-domain false news and underlying user effects on Chinese Weibo. Information Processing and Management, 2022, 59, 102959.	5.4	11
143	Joint Spatial and Temporal Modeling for Hydrological Prediction. IEEE Access, 2020, 8, 78492-78503.	2.6	10
144	To Your Surprise: Identifying Serendipitous Collaborators. IEEE Transactions on Big Data, 2021, 7, 574-589.	4.4	10

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145	Sensor selection for maneuver classification. , 0, , .		9
146	An Integrative Approach to Identifying Biologically Relevant Genes. , 2010, , .		9
147	Signed Link Prediction with Sparse Data: The Role of Personality Information. , 2019, , .		9
148	Session-Based Cyberbullying Detection: Problems and Challenges. IEEE Internet Computing, 2021, 25, 66-72.	3.2	9
149	Discovering mappings in hierarchical data from multiple sources using the inherent structure. Knowledge and Information Systems, 2006, 10, 185-210.	2.1	8
150	Temporal dynamics in social trust prediction. Wuhan University Journal of Natural Sciences, 2014, 19, 369-378.	0.2	8
151	Social Role Identification via Dual Uncertainty Minimization Regularization. , 2014, , .		8
152	Information Diffusion in Social Media. , 2014, , 179-214.		8
153	Discovering Social Events through Online Attention. PLoS ONE, 2014, 9, e102001.	1.1	8
154	Context-Aware Experience Extraction from Online Health Forums. , 2015, , .		7
155	Embracing Information Explosion without Choking: Clustering and Labeling in Microblogging. IEEE Transactions on Big Data, 2015, 1, 35-46.	4.4	7
156	Cross-Domain Graph Anomaly Detection. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2406-2415.	7.2	7
157	A Novel Measure for Coherence in Statistical Topic Models. , 2016, , .		7
158	INITIATOR: Noise-contrastive Estimation for Marked Temporal Point Process. , 2018, , .		6
159	Network denoising in social media. , 2013, , .		5
160	Exploiting Multilabel Information for Noise-Resilient Feature Selection. ACM Transactions on Intelligent Systems and Technology, 2018, 9, 1-23.	2.9	5
161	Learning Shared Mobility-Aware Knowledge for Multiple Urban Travel Demands. IEEE Internet of Things Journal, 2022, 9, 7025-7035.	5.5	5
162	Sensor networks: decentralized monitoring and subspace classification of events. International Journal of General Systems, 2011, 40, 457-483.	1.2	4

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163	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.	1.9	4
164	Finding the Right Social Media Site for Questions. , 2015, , .		4
165	Beyond the Scale of Big Data. Frontiers in Big Data, 2018, 1, 1.	1.8	4
166	Bot Detection: Will Focusing on Recall Cause Overall Performance Deterioration?. Lecture Notes in Computer Science, 2019, , 39-49.	1.0	4
167	Blockchain-Based Offline Auditing for the Cloud in Vehicular Networks. IEEE Transactions on Network and Service Management, 2022, 19, 2944-2956.	3.2	4
168	Text, Topics, and Turkers. , 2015, , .		3
169	Real-Time Crisis Mapping Using Language Distribution. , 2015, , .		3
170	Detecting Pattern Anomalies in Hydrological Time Series with Weighted Probabilistic Suffix Trees. Water (Switzerland), 2020, 12, 1464.	1.2	3
171	Integrating Multimodal and Longitudinal Neuroimaging Data with Multi-Source Network Representation Learning. Neuroinformatics, 2022, 20, 301-316.	1.5	3
172	Spatial Community-Informed Evolving Graphs for Demand Prediction. Lecture Notes in Computer Science, 2021, , 440-456.	1.0	3
173	Multimodal Fusion of Brain Networks with Longitudinal Couplings. Lecture Notes in Computer Science, 2018, 11072, 3-11.	1.0	3
174	Efficient yet accurate clustering. , 0, , .		2
175	Quantifying Utility and Trustworthiness for Advice Shared on Online Social Media. , 2009, , .		2
176	Extracting geographic knowledge from sensor intervention data using spatial association rules. , 2011, , .		2
177	Ensemble Feature Selection in Face Recognition: ICMLA 2012 Challenge. , 2012, , .		2
178	Dual Uncertainty Minimization Regularization and Its Applications on Heterogeneous Data. , 2014, , .		2
179	Online diffusion source detection in social networks. , 2015, , .		2
180	Abductive Causal Reasoning for Internet of Things. , 2019, , .		2

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181	Incremental one-class collaborative filtering with co-evolving side networks. Knowledge and Information Systems, 2021, 63, 105-124.	2.1	2
182	Causal Learning for Socially Responsible AI. , 2021, , .		2
183	Guest Editorial Computational Social Systems for COVID-19 Emergency Management and Beyond. IEEE Transactions on Computational Social Systems, 2021, 8, 928-929.	3.2	2
184	Towards Building a Social Computing Tool for Social Scientists. , 2010, , .		1
185	Legislative prediction with dual uncertainty minimization from heterogeneous information. Statistical Analysis and Data Mining, 2017, 10, 107-120.	1.4	1
186	Guest Editorial: Scholarly Big Data. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 200-203.	3.2	1
187	Learning Latent Perception Graphs for Personalized Unknowns Recommendation. , 2020, , .		1
188	Generating Topic-Preserving Synthetic News. , 2021, , .		1
189	CausalSE: Understanding Varied Spatial Effects with Missing Data Towards Adding New Bike-sharing Stations. ACM Transactions on Knowledge Discovery From Data, 0, , .	2.5	1
190	Sampling from databases using B+-Trees. Intelligent Data Analysis, 2002, 6, 359-377.	0.4	0
191	Integrating Knowledge in Search of Biologically Relevant Genes. , 2009, , .		0
192	Border Security: Supplementing Human Intelligence in a Sensor Network Using Sequential Pattern Mining. , 2010, , .		0
193	A Local SVD Framework for Stable Feature Selection for Clustering. , 2015, , .		0
194	Social Answer: A System for Finding Appropriate Sites for Questions in Social Media. , 2015, , .		0
195	Maximum Distance Minimum Error (MDME): A non-parametric approach to feature selection for image-based high content screening data. , 2017, , .		0
196	A Matlab-based digital-physical hybrid real-time simulation platform for power system. , 2018, , .		0
197	Editorial: Innovations and Perspectives in Data Mining and Knowledge Discovery. Frontiers in Big Data, 2020, 3, 637906.	1.8	0
198	Guest Editorial: Non-IID Outlier Detection in Complex Contexts. IEEE Intelligent Systems, 2021, 36, 3-4.	4.0	0

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199	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