

# Shirui Pan

## List of Publications by Year in descending order

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Version: 2024-02-01

144  
papers

10,341  
citations

159585

30  
h-index

58581

82  
g-index

146  
all docs

146  
docs citations

146  
times ranked

5498  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Survey on Graph Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4-24.	11.3	3,922
2	A Survey on Knowledge Graphs: Representation, Acquisition, and Applications. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 494-514.	11.3	769
3	Graph WaveNet for Deep Spatial-Temporal Graph Modeling. , 2019, , .		765
4	Connecting the Dots: Multivariate Time Series Forecasting with Graph Neural Networks. , 2020, , .		511
5	Adversarially Regularized Graph Autoencoder for Graph Embedding. , 2018, , .		407
6	Attributed Graph Clustering: A Deep Attentional Embedding Approach. , 2019, , .		213
7	MGAE. , 2017, , .		202
8	Learning Graph Embedding With Adversarial Training Methods. IEEE Transactions on Cybernetics, 2020, 50, 2475-2487.	9.5	172
9	Graph Learning: A Survey. IEEE Transactions on Artificial Intelligence, 2021, 2, 109-127.	4.7	165
10	A Survey of Community Detection Approaches: From Statistical Modeling to Deep Learning. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	118
11	Hyperspectral Image Classification With Context-Aware Dynamic Graph Convolutional Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 597-612.	6.3	113
12	Suicidal Ideation Detection: A Review of Machine Learning Methods and Applications. IEEE Transactions on Computational Social Systems, 2021, 8, 214-226.	4.4	100
13	Supervised Learning for Suicidal Ideation Detection in Online User Content. Complexity, 2018, 2018, 1-10.	1.6	92
14	Time series feature learning with labeled and unlabeled data. Pattern Recognition, 2019, 89, 55-66.	8.1	83
15	Self-adaptive attribute weighting for Naive Bayes classification. Expert Systems With Applications, 2015, 42, 1487-1502.	7.6	77
16	Anomaly Detection on Attributed Networks via Contrastive Self-Supervised Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2378-2392.	11.3	77
17	Boosting for Multi-Graph Classification. IEEE Transactions on Cybernetics, 2015, 45, 416-429.	9.5	73
18	Unsupervised Domain Adaptive Graph Convolutional Networks. , 2020, , .		67

#	ARTICLE	IF	CITATIONS
19	Multi-Instance Learning with Discriminative Bag Mapping. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1065-1080.	5.7	62
20	Learning Private Neural Language Modeling with Attentive Aggregation. , 2019, , .		60
21	Binarized attributed network embedding. , 2018, , .		59
22	An Explainable Deep Fusion Network for Affect Recognition Using Physiological Signals. , 2019, , .		56
23	Task Sensitive Feature Exploration and Learning for Multitask Graph Classification. IEEE Transactions on Cybernetics, 2017, 47, 744-758.	9.5	55
24	A Relation-Specific Attention Network for Joint Entity and Relation Extraction. , 2020, , .		55
25	Exploiting Implicit Influence From Information Propagation for Social Recommendation. IEEE Transactions on Cybernetics, 2020, 50, 4186-4199.	9.5	54
26	A Three-Layered Mutually Reinforced Model for Personalized Citation Recommendation. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6026-6037.	11.3	53
27	Multi-Scale Contrastive Siamese Networks for Self-Supervised Graph Representation Learning. , 2021, , .		52
28	Graph Ensemble Boosting for Imbalanced Noisy Graph Stream Classification. IEEE Transactions on Cybernetics, 2015, 45, 954-968.	9.5	50
29	SODE: Self-Adaptive One-Dependence Estimators for classification. Pattern Recognition, 2016, 51, 358-377.	8.1	49
30	Positive and Unlabeled Multi-Graph Learning. IEEE Transactions on Cybernetics, 2017, 47, 818-829.	9.5	47
31	Social Recommendation With Evolutionary Opinion Dynamics. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, , 1-13.	9.3	44
32	Familial Clustering for Weakly-Labeled Android Malware Using Hybrid Representation Learning. IEEE Transactions on Information Forensics and Security, 2020, 15, 3401-3414.	6.9	43
33	Overcoming Multi-Model Forgetting in One-Shot NAS With Diversity Maximization. , 2020, , .		43
34	Joint Structure Feature Exploration and Regularization for Multi-Task Graph Classification. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 715-728.	5.7	42
35	Reinforced, Incremental and Cross-Lingual Event Detection From Social Messages. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 980-998.	13.9	42
36	Relation Structure-Aware Heterogeneous Graph Neural Network. , 2019, , .		41

#	ARTICLE	IF	CITATIONS
37	Towards Unsupervised Deep Graph Structure Learning. , 2022, , .		41
38	Convolutional Neural Networks-Based Lung Nodule Classification: A Surrogate-Assisted Evolutionary Algorithm for Hyperparameter Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 869-882.	10.0	40
39	Task-adaptive Neural Process for User Cold-Start Recommendation. , 2021, , .		39
40	CogBoost: Boosting for Fast Cost-Sensitive Graph Classification. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2933-2946.	5.7	38
41	Multiple Structure-View Learning for Graph Classification. IEEE Transactions on Neural Networks and Learning Systems, 2017, 29, 1-16.	11.3	34
42	Distributed Feature Selection for Big Data Using Fuzzy Rough Sets. IEEE Transactions on Fuzzy Systems, 2020, 28, 846-857.	9.8	34
43	Finding the best not the most: regularized loss minimization subgraph selection for graph classification. Pattern Recognition, 2015, 48, 3783-3796.	8.1	32
44	Classification of Lung Nodules Based on Deep Residual Networks and Migration Learning. Computational Intelligence and Neuroscience, 2020, 2020, 1-10.	1.7	32
45	Active Discriminative Network Representation Learning. , 2018, , .		32
46	Reasoning Like Human: Hierarchical Reinforcement Learning for Knowledge Graph Reasoning. , 2020, , .		32
47	Discrete Network Embedding. , 2018, , .		31
48	Deep neighbor-aware embedding for node clustering in attributed graphs. Pattern Recognition, 2022, 122, 108230.	8.1	30
49	Multi-graph-view Learning for Graph Classification. , 2014, , .		29
50	CFOND: Consensus Factorization for Co-Clustering Networked Data. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 706-719.	5.7	29
51	Deep learning data augmentation for Raman spectroscopy cancer tissue classification. Scientific Reports, 2021, 11, 23842.	3.3	29
52	DAGCN: Dual Attention Graph Convolutional Networks. , 2019, , .		27
53	One-Shot Neural Architecture Search: Maximising Diversity to Overcome Catastrophic Forgetting. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2921-2935.	13.9	27
54	Exploiting Attribute Correlations: A Novel Trace Lasso-Based Weakly Supervised Dictionary Learning Method. IEEE Transactions on Cybernetics, 2017, 47, 4497-4508.	9.5	26

#	ARTICLE	IF	CITATIONS
55	Positive-unlabeled learning in bioinformatics and computational biology: a brief review. Briefings in Bioinformatics, 2022, 23, .	6.5	26
56	Explore semantic topics and author communities for citation recommendation in bipartite bibliographic network. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 957-975.	4.9	25
57	Bayesian personalized ranking based on multiple-layer neighborhoods. Information Sciences, 2021, 542, 156-176.	6.9	25
58	Multi-Graph Learning with Positive and Unlabeled Bags. , 2014, , .		24
59	Domain-Adversarial Graph Neural Networks for Text Classification. , 2019, , .		23
60	Dual Interactive Graph Convolutional Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	23
61	Temporal Network Embedding for Link Prediction via VAE Joint Attention Mechanism. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7400-7413.	11.3	23
62	Multivariate Relations Aggregation Learning in Social Networks. , 2020, , .		23
63	ANEMONE. , 2021, , .		22
64	Reinforcement Learning Based Meta-Path Discovery in Large-Scale Heterogeneous Information Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 6094-6101.	4.9	21
65	Influence Spread in Geo-Social Networks: A Multiobjective Optimization Perspective. IEEE Transactions on Cybernetics, 2021, 51, 2663-2675.	9.5	19
66	Learning Graph Neural Networks with Positive and Unlabeled Nodes. ACM Transactions on Knowledge Discovery From Data, 2021, 15, 1-25.	3.5	19
67	Multi-graph-view subgraph mining for graph classification. Knowledge and Information Systems, 2016, 48, 29-54.	3.2	18
68	Identify Topic Relations in Scientific Literature Using Topic Modeling. IEEE Transactions on Engineering Management, 2021, 68, 1232-1244.	3.5	18
69	Clustering social audiences in business information networks. Pattern Recognition, 2020, 100, 107126.	8.1	18
70	Anomaly Detection in Dynamic Graphs via Transformer. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 12081-12094.	5.7	17
71	An Empirical Survey on Long Document Summarization: Datasets, Models, and Metrics. ACM Computing Surveys, 2023, 55, 1-35.	23.0	17
72	Towards large-scale social networks with online diffusion provenance detection. Computer Networks, 2017, 114, 154-166.	5.1	16

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73	Heterogeneous Information Network Embedding based Personalized Query-Focused Astronomy Reference Paper Recommendation. International Journal of Computational Intelligence Systems, 2018, 11, 591.	2.7	16
74	Dynamic classifier ensemble for positive unlabeled text stream classification. Knowledge and Information Systems, 2012, 33, 267-287.	3.2	15
75	Adaptive knowledge subgraph ensemble for robust and trustworthy knowledge graph completion. World Wide Web, 2020, 23, 471-490.	4.0	15
76	GADTI: Graph Autoencoder Approach for DTI Prediction From Heterogeneous Network. Frontiers in Genetics, 2021, 12, 650821.	2.3	15
77	OpenWGL: Open-World Graph Learning. , 2020, , .		15
78	Classifier Ensemble for Uncertain Data Stream Classification. Lecture Notes in Computer Science, 2010, , 488-495.	1.3	14
79	A Hybrid User Experience Evaluation Method for Mobile Games. IEEE Access, 2018, 6, 49067-49079.	4.2	14
80	Detecting Suicidal Ideation with Data Protection in Online Communities. Lecture Notes in Computer Science, 2019, , 225-229.	1.3	14
81	Cost-Sensitive Parallel Learning Framework for Insurance Intelligence Operation. IEEE Transactions on Industrial Electronics, 2019, 66, 9713-9723.	7.9	14
82	One-Shot Neural Architecture Search via Novelty Driven Sampling. , 2020, , .		14
83	Classifying networked text data with positive and unlabeled examples. Pattern Recognition Letters, 2016, 77, 1-7.	4.2	13
84	Hashing for Adaptive Real-Time Graph Stream Classification With Concept Drifts. IEEE Transactions on Cybernetics, 2018, 48, 1591-1604.	9.5	13
85	Measuring distance-based semantic similarity using meronymy and hyponymy relations. Neural Computing and Applications, 2020, 32, 3521-3534.	5.6	13
86	IGNSCDA: Predicting CircRNA-Disease Associations Based on Improved Graph Convolutional Network and Negative Sampling. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, PP, 1-1.	3.0	13
87	Network-based methods for gene function prediction. Briefings in Functional Genomics, 2021, 20, 249-257.	2.7	13
88	Long-short Distance Aggregation Networks for Positive Unlabeled Graph Learning. , 2019, , .		13
89	Adapting Membership Inference Attacks to GNN for Graph Classification: Approaches and Implications. , 2021, , .		13
90	Going Deep: Graph Convolutional Ladder-Shape Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 2838-2845.	4.9	12

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91	Low-Bit Quantization for Attributed Network Representation Learning. , 2019, , .		12
92	Low-Rank and Sparse Matrix Factorization for Scientific Paper Recommendation in Heterogeneous Network. IEEE Access, 2018, 6, 59015-59030.	4.2	11
93	FraudNE: a Joint Embedding Approach for Fraud Detection. , 2018, , .		10
94	Adversarial Action Data Augmentation for Similar Gesture Action Recognition. , 2019, , .		10
95	One-Shot Learning-Based Animal Video Segmentation. IEEE Transactions on Industrial Informatics, 2022, 18, 3799-3807.	11.3	10
96	Projective Ranking: A Transferable Evasion Attack Method on Graph Neural Networks. , 2021, , .		10
97	Predicting Human Mobility via Graph Convolutional Dual-attentive Networks. , 2022, , .		10
98	Graph stream classification using labeled and unlabeled graphs. , 2013, , .		9
99	Dual instance and attribute weighting for Naive Bayes classification. , 2014, , .		9
100	Cross-Domain Deep Learning Approach For Multiple Financial Market Prediction. , 2018, , .		9
101	Attentive Dual Embedding for Understanding Medical Concepts in Electronic Health Records. , 2019, , .		9
102	GSSNN: Graph Smoothing Splines Neural Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 7007-7014.	4.9	9
103	A shapeable, ultra-stretchable rubber strain sensor based on carbon nanotubes and Ag flakes via melt-mixing process. Journal of Materials Chemistry B, 2021, 9, 3502-3508.	5.8	9
104	Discrete embedding for attributed graphs. Pattern Recognition, 2022, 123, 108368.	8.1	9
105	Query-oriented citation recommendation based on network correlation. Journal of Intelligent and Fuzzy Systems, 2018, 35, 4621-4628.	1.4	8
106	Gated relational stacked denoising autoencoder with localized author embedding for global citation recommendation. Expert Systems With Applications, 2021, 184, 115359.	7.6	8
107	Boosting for graph classification with universum. Knowledge and Information Systems, 2017, 50, 53-77.	3.2	7
108	Medical Code Assignment with Gated Convolution and Note-Code Interaction. , 2021, , .		7

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109	GCNFusion: An efficient graph convolutional network based model for information diffusion. Expert Systems With Applications, 2022, 202, 117053.	7.6	7
110	Mutually reinforced network embedding: An integrated approach to research paper recommendation. Expert Systems With Applications, 2022, 204, 117616.	7.6	7
111	Attribute weighting: How and when does it work for Bayesian Network Classification. , 2014, , .		6
112	Heterogeneous Graph Attention Network for Small and Medium-Sized Enterprises Bankruptcy Prediction. Lecture Notes in Computer Science, 2021, , 140-151.	1.3	6
113	Learning Graph Representations With Maximal Cliques. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 1089-1096.	11.3	6
114	Compact Scheduling for Task Graph Oriented Mobile Crowdsourcing. IEEE Transactions on Mobile Computing, 2020, , 1-1.	5.8	6
115	Learning multi-level weight-centric features for few-shot learning. Pattern Recognition, 2022, 128, 108662.	8.1	6
116	TraverseNet: Unifying Space and Time in Message Passing for Traffic Forecasting. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 2003-2013.	11.3	6
117	Ensemble of multiple descriptors for automatic image annotation. , 2010, , .		5
118	CGStream. , 2012, , .		5
119	Continuous top-k query for graph streams. , 2012, , .		5
120	Multi-document summarization based on sentence cluster using non-negative matrix factorization. Journal of Intelligent and Fuzzy Systems, 2017, 33, 1867-1879.	1.4	5
121	Graph Ladder Networks for Network Classification. , 2017, , .		5
122	Prediction of circRNA-miRNA Associations Based on Network Embedding. Complexity, 2021, 2021, 1-10.	1.6	5
123	Exploring Features for Complicated Objects. , 2014, , .		4
124	Locally Weighted Learning: How and When Does it Work in Bayesian Networks?. International Journal of Computational Intelligence Systems, 2015, 8, 63-74.	2.7	4
125	Joint structure feature exploration and regularization for multi-task graph classification. , 2016, , .		4
126	Universal network representation for heterogeneous information networks. , 2017, , .		4



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127	Label Embedding with Partial Heterogeneous Contexts. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 4926-4933.	4.9	4
128	OpenWGL: open-world graph learning for unseen class node classification. Knowledge and Information Systems, 2021, 63, 2405-2430.	3.2	4
129	Grounding Visual Concepts for Zero-Shot Event Detection and Event Captioning. , 2020, , .		4
130	Cost-sensitive Hybrid Neural Networks for Heterogeneous and Imbalanced Data. , 2018, , .		3
131	Cyclic label propagation for graph semi-supervised learning. World Wide Web, 0, , 1.	4.0	3
132	Co-clustering enterprise social networks. , 2016, , .		2
133	Advances in Processing, Mining, and Learning Complex Data: From Foundations to Real-World Applications. Complexity, 2018, 2018, 1-3.	1.6	2
134	A Self-Supervised Learning Framework for Sequential Recommendation. , 2021, , .		2
135	Online unsupervised cross-view discrete hashing for large-scale retrieval. Applied Intelligence, 2022, 52, 14905-14917.	5.3	2
136	Beyond Low-Pass Filtering: Graph Convolutional Networks With Automatic Filtering. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-12.	5.7	2
137	IEEE Access Special Section Editorial: Advanced Data Mining Methods for Social Computing. IEEE Access, 2020, 8, 228598-228604.	4.2	1
138	Cross-Graph: Robust and Unsupervised Embedding for Attributed Graphs with Corrupted Structure. , 2020, , .		1
139	Predicting Best-Selling New Products in a Major Promotion Campaign Through Graph Convolutional Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, PP, 1-14.	11.3	1
140	IEEE Access Special Section Editorial: Advanced Data Analytics for Large-Scale Complex Data Environments. IEEE Access, 2019, 7, 33778-33786.	4.2	0
141	Manifold Approximation and Projection by Maximizing Graph Information. Lecture Notes in Computer Science, 2021, , 128-140.	1.3	0
142	Guest Editorial: Graph-powered machine learning in future-generation computing systems. Future Generation Computer Systems, 2022, 126, 88-90.	7.5	0
143	Mining Top-k Minimal Redundancy Frequent Patterns over Uncertain Databases. Lecture Notes in Computer Science, 2015, , 111-119.	1.3	0
144	Gated graph convolutional network with enhanced representation and joint attention for distant supervised heterogeneous relation extraction. World Wide Web, 0, , 1.	4.0	0