

# Shirui Pan

## List of Publications by Year in descending order

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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	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
2	Learning Graph Representations With Maximal Cliques. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 1089-1096.	11.3	6
3	Anomaly Detection in Dynamic Graphs via Transformer. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 12081-12094.	5.7	17
4	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
5	An Empirical Survey on Long Document Summarization: Datasets, Models, and Metrics. ACM Computing Surveys, 2023, 55, 1-35.	23.0	17
6	Dual Interactive Graph Convolutional Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	23
7	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
8	Guest Editorial: Graph-powered machine learning in future-generation computing systems. Future Generation Computer Systems, 2022, 126, 88-90.	7.5	0
9	Deep neighbor-aware embedding for node clustering in attributed graphs. Pattern Recognition, 2022, 122, 108230.	8.1	30
10	One-Shot Learning-Based Animal Video Segmentation. IEEE Transactions on Industrial Informatics, 2022, 18, 3799-3807.	11.3	10
11	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
12	A Survey on Knowledge Graphs: Representation, Acquisition, and Applications. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 494-514.	11.3	769
13	Positive-unlabeled learning in bioinformatics and computational biology: a brief review. Briefings in Bioinformatics, 2022, 23, .	6.5	26
14	Discrete embedding for attributed graphs. Pattern Recognition, 2022, 123, 108368.	8.1	9
15	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
16	Online unsupervised cross-view discrete hashing for large-scale retrieval. Applied Intelligence, 2022, 52, 14905-14917.	5.3	2
17	Predicting Human Mobility via Graph Convolutional Dual-attentive Networks. , 2022, , .		10
18	GCNFusion: An efficient graph convolutional network based model for information diffusion. Expert Systems With Applications, 2022, 202, 117053.	7.6	7

#	ARTICLE	IF	CITATIONS
19	Learning multi-level weight-centric features for few-shot learning. Pattern Recognition, 2022, 128, 108662.	8.1	6
20	Towards Unsupervised Deep Graph Structure Learning. , 2022, , .		41
21	Mutually reinforced network embedding: An integrated approach to research paper recommendation. Expert Systems With Applications, 2022, 204, 117616.	7.6	7
22	Beyond Low-Pass Filtering: Graph Convolutional Networks With Automatic Filtering. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-12.	5.7	2
23	Identify Topic Relations in Scientific Literature Using Topic Modeling. IEEE Transactions on Engineering Management, 2021, 68, 1232-1244.	3.5	18
24	A Comprehensive Survey on Graph Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4-24.	11.3	3,922
25	Hyperspectral Image Classification With Context-Aware Dynamic Graph Convolutional Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 597-612.	6.3	113
26	Influence Spread in Geo-Social Networks: A Multiobjective Optimization Perspective. IEEE Transactions on Cybernetics, 2021, 51, 2663-2675.	9.5	19
27	Bayesian personalized ranking based on multiple-layer neighborhoods. Information Sciences, 2021, 542, 156-176.	6.9	25
28	Suicidal Ideation Detection: A Review of Machine Learning Methods and Applications. IEEE Transactions on Computational Social Systems, 2021, 8, 214-226.	4.4	100
29	Manifold Approximation and Projection by Maximizing Graph Information. Lecture Notes in Computer Science, 2021, , 128-140.	1.3	0
30	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
31	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
32	Medical Code Assignment with Gated Convolution and Note-Code Interaction. , 2021, , .		7
33	Heterogeneous Graph Attention Network for Small and Medium-Sized Enterprises Bankruptcy Prediction. Lecture Notes in Computer Science, 2021, , 140-151.	1.3	6
34	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
35	Network-based methods for gene function prediction. Briefings in Functional Genomics, 2021, 20, 249-257.	2.7	13
36	Graph Learning: A Survey. IEEE Transactions on Artificial Intelligence, 2021, 2, 109-127.	4.7	165

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37	Task-adaptive Neural Process for User Cold-Start Recommendation. , 2021, , .		39
38	GADTI: Graph Autoencoder Approach for DTI Prediction From Heterogeneous Network. Frontiers in Genetics, 2021, 12, 650821.	2.3	15
39	Learning Graph Neural Networks with Positive and Unlabeled Nodes. ACM Transactions on Knowledge Discovery From Data, 2021, 15, 1-25.	3.5	19
40	A Self-Supervised Learning Framework for Sequential Recommendation. , 2021, , .		2
41	Multi-Scale Contrastive Siamese Networks for Self-Supervised Graph Representation Learning. , 2021, , .		52
42	OpenWGL: open-world graph learning for unseen class node classification. Knowledge and Information Systems, 2021, 63, 2405-2430.	3.2	4
43	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
44	Prediction of circRNA-miRNA Associations Based on Network Embedding. Complexity, 2021, 2021, 1-10.	1.6	5
45	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
46	Gated relational stacked denoising autoencoder with localized author embedding for global citation recommendation. Expert Systems With Applications, 2021, 184, 115359.	7.6	8
47	Projective Ranking: A Transferable Evasion Attack Method on Graph Neural Networks. , 2021, , .		10
48	ANEMONE. , 2021, , .		22
49	Adapting Membership Inference Attacks to GNN for Graph Classification: Approaches and Implications. , 2021, , .		13
50	Deep learning data augmentation for Raman spectroscopy cancer tissue classification. Scientific Reports, 2021, 11, 23842.	3.3	29
51	Measuring distance-based semantic similarity using meronymy and hyponymy relations. Neural Computing and Applications, 2020, 32, 3521-3534.	5.6	13
52	Adaptive knowledge subgraph ensemble for robust and trustworthy knowledge graph completion. World Wide Web, 2020, 23, 471-490.	4.0	15
53	Exploiting Implicit Influence From Information Propagation for Social Recommendation. IEEE Transactions on Cybernetics, 2020, 50, 4186-4199.	9.5	54
54	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

#	ARTICLE	IF	CITATIONS
55	Distributed Feature Selection for Big Data Using Fuzzy Rough Sets. IEEE Transactions on Fuzzy Systems, 2020, 28, 846-857.	9.8	34
56	Clustering social audiences in business information networks. Pattern Recognition, 2020, 100, 107126.	8.1	18
57	Learning Graph Embedding With Adversarial Training Methods. IEEE Transactions on Cybernetics, 2020, 50, 2475-2487.	9.5	172
58	GSSNN: Graph Smoothing Splines Neural Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 7007-7014.	4.9	9
59	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
60	Overcoming Multi-Model Forgetting in One-Shot NAS With Diversity Maximization. , 2020, , .		43
61	Going Deep: Graph Convolutional Ladder-Shape Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 2838-2845.	4.9	12
62	Classification of Lung Nodules Based on Deep Residual Networks and Migration Learning. Computational Intelligence and Neuroscience, 2020, 2020, 1-10.	1.7	32
63	OpenWGL: Open-World Graph Learning. , 2020, , .		15
64	Unsupervised Domain Adaptive Graph Convolutional Networks. , 2020, , .		67
65	Multivariate Relations Aggregation Learning in Social Networks. , 2020, , .		23
66	Connecting the Dots: Multivariate Time Series Forecasting with Graph Neural Networks. , 2020, , .		511
67	Reasoning Like Human: Hierarchical Reinforcement Learning for Knowledge Graph Reasoning. , 2020, , .		32
68	One-Shot Neural Architecture Search via Novelty Driven Sampling. , 2020, , .		14
69	A Relation-Specific Attention Network for Joint Entity and Relation Extraction. , 2020, , .		55
70	Compact Scheduling for Task Graph Oriented Mobile Crowdsourcing. IEEE Transactions on Mobile Computing, 2020, , 1-1.	5.8	6
71	IEEE Access Special Section Editorial: Advanced Data Mining Methods for Social Computing. IEEE Access, 2020, 8, 228598-228604.	4.2	1
72	Grounding Visual Concepts for Zero-Shot Event Detection and Event Captioning. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
73	Cross-Graph: Robust and Unsupervised Embedding for Attributed Graphs with Corrupted Structure. , 2020, , .		1
74	CFOND: Consensus Factorization for Co-Clustering Networked Data. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 706-719.	5.7	29
75	IEEE Access Special Section Editorial: Advanced Data Analytics for Large-Scale Complex Data Environments. IEEE Access, 2019, 7, 33778-33786.	4.2	0
76	Detecting Suicidal Ideation with Data Protection in Online Communities. Lecture Notes in Computer Science, 2019, , 225-229.	1.3	14
77	Label Embedding with Partial Heterogeneous Contexts. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 4926-4933.	4.9	4
78	Domain-Adversarial Graph Neural Networks for Text Classification. , 2019, , .		23
79	Relation Structure-Aware Heterogeneous Graph Neural Network. , 2019, , .		41
80	Learning Private Neural Language Modeling with Attentive Aggregation. , 2019, , .		60
81	Attentive Dual Embedding for Understanding Medical Concepts in Electronic Health Records. , 2019, , .		9
82	DAGCN: Dual Attention Graph Convolutional Networks. , 2019, , .		27
83	Adversarial Action Data Augmentation for Similar Gesture Action Recognition. , 2019, , .		10
84	Time series feature learning with labeled and unlabeled data. Pattern Recognition, 2019, 89, 55-66.	8.1	83
85	Cost-Sensitive Parallel Learning Framework for Insurance Intelligence Operation. IEEE Transactions on Industrial Electronics, 2019, 66, 9713-9723.	7.9	14
86	Long-short Distance Aggregation Networks for Positive Unlabeled Graph Learning. , 2019, , .		13
87	An Explainable Deep Fusion Network for Affect Recognition Using Physiological Signals. , 2019, , .		56
88	Graph WaveNet for Deep Spatial-Temporal Graph Modeling. , 2019, , .		765
89	Attributed Graph Clustering: A Deep Attentional Embedding Approach. , 2019, , .		213
90	Low-Bit Quantization for Attributed Network Representation Learning. , 2019, , .		12

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91	Hashing for Adaptive Real-Time Graph Stream Classification With Concept Drifts. IEEE Transactions on Cybernetics, 2018, 48, 1591-1604.	9.5	13
92	Multi-Instance Learning with Discriminative Bag Mapping. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1065-1080.	5.7	62
93	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
94	Binarized attributed network embedding. , 2018, , .		59
95	Cost-sensitive Hybrid Neural Networks for Heterogeneous and Imbalanced Data. , 2018, , .		3
96	Cross-Domain Deep Learning Approach For Multiple Financial Market Prediction. , 2018, , .		9
97	FraudNE: a Joint Embedding Approach for Fraud Detection. , 2018, , .		10
98	Supervised Learning for Suicidal Ideation Detection in Online User Content. Complexity, 2018, 2018, 1-10.	1.6	92
99	Query-oriented citation recommendation based on network correlation. Journal of Intelligent and Fuzzy Systems, 2018, 35, 4621-4628.	1.4	8
100	Low-Rank and Sparse Matrix Factorization for Scientific Paper Recommendation in Heterogeneous Network. IEEE Access, 2018, 6, 59015-59030.	4.2	11
101	Advances in Processing, Mining, and Learning Complex Data: From Foundations to Real-World Applications. Complexity, 2018, 2018, 1-3.	1.6	2
102	Social Recommendation With Evolutionary Opinion Dynamics. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, , 1-13.	9.3	44
103	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
104	A Hybrid User Experience Evaluation Method for Mobile Games. IEEE Access, 2018, 6, 49067-49079.	4.2	14
105	Active Discriminative Network Representation Learning. , 2018, , .		32
106	Adversarially Regularized Graph Autoencoder for Graph Embedding. , 2018, , .		407
107	Discrete Network Embedding. , 2018, , .		31
108	Heterogeneous Information Network Embedding based Personalized Query-Focused Astronomy Reference Paper Recommendation. International Journal of Computational Intelligence Systems, 2018, 11, 591.	2.7	16

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109	Boosting for graph classification with universum. Knowledge and Information Systems, 2017, 50, 53-77.	3.2	7
110	Task Sensitive Feature Exploration and Learning for Multitask Graph Classification. IEEE Transactions on Cybernetics, 2017, 47, 744-758.	9.5	55
111	Positive and Unlabeled Multi-Graph Learning. IEEE Transactions on Cybernetics, 2017, 47, 818-829.	9.5	47
112	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
113	MGAEL. , 2017, , .		202
114	Towards large-scale social networks with online diffusion provenance detection. Computer Networks, 2017, 114, 154-166.	5.1	16
115	Exploiting Attribute Correlations: A Novel Trace Lasso-Based Weakly Supervised Dictionary Learning Method. IEEE Transactions on Cybernetics, 2017, 47, 4497-4508.	9.5	26
116	Graph Ladder Networks for Network Classification. , 2017, , .		5
117	Universal network representation for heterogeneous information networks. , 2017, , .		4
118	Multiple Structure-View Learning for Graph Classification. IEEE Transactions on Neural Networks and Learning Systems, 2017, 29, 1-16.	11.3	34
119	Joint structure feature exploration and regularization for multi-task graph classification. , 2016, , .		4
120	Co-clustering enterprise social networks. , 2016, , .		2
121	Multi-graph-view subgraph mining for graph classification. Knowledge and Information Systems, 2016, 48, 29-54.	3.2	18
122	Classifying networked text data with positive and unlabeled examples. Pattern Recognition Letters, 2016, 77, 1-7.	4.2	13
123	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
124	SODE: Self-Adaptive One-Dependence Estimators for classification. Pattern Recognition, 2016, 51, 358-377.	8.1	49
125	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
126	CogBoost: Boosting for Fast Cost-Sensitive Graph Classification. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2933-2946.	5.7	38



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127	Boosting for Multi-Graph Classification. IEEE Transactions on Cybernetics, 2015, 45, 416-429.	9.5	73
128	Finding the best not the most: regularized loss minimization subgraph selection for graph classification. Pattern Recognition, 2015, 48, 3783-3796.	8.1	32
129	Graph Ensemble Boosting for Imbalanced Noisy Graph Stream Classification. IEEE Transactions on Cybernetics, 2015, 45, 954-968.	9.5	50
130	Self-adaptive attribute weighting for Naive Bayes classification. Expert Systems With Applications, 2015, 42, 1487-1502.	7.6	77
131	Mining Top-k Minimal Redundancy Frequent Patterns over Uncertain Databases. Lecture Notes in Computer Science, 2015, , 111-119.	1.3	0
132	Multi-Graph Learning with Positive and Unlabeled Bags. , 2014, , .		24
133	Exploring Features for Complicated Objects. , 2014, , .		4
134	Dual instance and attribute weighting for Naive Bayes classification. , 2014, , .		9
135	Attribute weighting: How and when does it work for Bayesian Network Classification. , 2014, , .		6
136	Multi-graph-view Learning for Graph Classification. , 2014, , .		29
137	Graph stream classification using labeled and unlabeled graphs. , 2013, , .		9
138	CGStream. , 2012, , .		5
139	Continuous top-k query for graph streams. , 2012, , .		5
140	Dynamic classifier ensemble for positive unlabeled text stream classification. Knowledge and Information Systems, 2012, 33, 267-287.	3.2	15
141	Ensemble of multiple descriptors for automatic image annotation. , 2010, , .		5
142	Classifier Ensemble for Uncertain Data Stream Classification. Lecture Notes in Computer Science, 2010, , 488-495.	1.3	14
143	Cyclic label propagation for graph semi-supervised learning. World Wide Web, 0, , 1.	4.0	3
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