

# Shuiwang Ji

## List of Publications by Year in descending order

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117  
papers

10,903  
citations

147801

31  
h-index

95266

68  
g-index

118  
all docs

118  
docs citations

118  
times ranked

10863  
citing authors

#	ARTICLE	IF	CITATIONS
1	Second-Order Pooling for Graph Neural Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 6870-6880.	13.9	33
2	Non-Local Graph Neural Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 10270-10276.	13.9	38
3	Advanced graph and sequence neural networks for molecular property prediction and drug discovery. Bioinformatics, 2022, 38, 2579-2586.	4.1	34
4	Topology-Aware Graph Pooling Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 4512-4518.	13.9	42
5	Global voxel transformer networks for augmented microscopy. Nature Machine Intelligence, 2021, 3, 161-171.	16.0	26
6	Deep Low-Shot Learning for Biological Image Classification and Visualization From Limited Training Samples. IEEE Transactions on Neural Networks and Learning Systems, 2021, PP, 1-11.	11.3	1
7	CleftNet: Augmented Deep Learning for Synaptic Cleft Detection from Brain Electron Microscopy. IEEE Transactions on Medical Imaging, 2021, 40, 1-1.	8.9	8
8	Line Graph Neural Networks for Link Prediction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	59
9	Graph U-Nets. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	60
10	Smoothed dilated convolutions for improved dense prediction. Data Mining and Knowledge Discovery, 2021, 35, 1470-1496.	3.7	29
11	Development of Xanthene-Based Fluorescent Dyes: Machine Learning-Assisted Prediction vs. TD-DFT Prediction and Experimental Validation. Chemistry Methods, 2021, 1, 389-396.	3.8	5
12	AdaGNN. , 2021, , .		16
13	Towards Structured NLP Interpretation via Graph Explainers. Applied AI Letters, 2021, 2, e58.	2.2	1
14	Deep Model Based Transfer and Multi-Task Learning for Biological Image Analysis. IEEE Transactions on Big Data, 2020, 6, 322-333.	6.1	101
15	A Multi-Scale Approach for Graph Link Prediction. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 3308-3315.	4.9	38
16	Deep Neural Networks with Knowledge Instillation. , 2020, , 370-378.		3
17	Non-Local U-Nets for Biomedical Image Segmentation. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 6315-6322.	4.9	96
18	Interpreting Image Classifiers by Generating Discrete Masks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	13.9	9

#	ARTICLE	IF	CITATIONS
19	Global Pixel Transformers for Virtual Staining of Microscopy Images. IEEE Transactions on Medical Imaging, 2020, 39, 2256-2266.	8.9	23
20	Kronecker Attention Networks. , 2020, , .		30
21	Towards Deeper Graph Neural Networks. , 2020, , .		203
22	XGNN: Towards Model-Level Explanations of Graph Neural Networks. , 2020, , .		128
23	Deep Learning of High-Order Interactions for Protein Interface Prediction. , 2020, , .		23
24	Context-Aware Deep Representation Learning for Geo-Spatiotemporal Analysis. , 2020, , .		4
25	A Deep Learning Approach for Targeted Contrast-Enhanced Ultrasound Based Prostate Cancer Detection. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 1794-1801.	3.0	40
26	On Attribution of Recurrent Neural Network Predictions via Additive Decomposition. , 2019, , .		30
27	Spatial Variational Auto-Encoding via Matrix-Variate Normal Distributions. , 2019, , 648-656.		2
28	Graph Representation Learning via Hard and Channel-Wise Attention Networks. , 2019, , .		33
29	Multi-Stage Variational Auto-Encoders for Coarse-to-Fine Image Generation. , 2019, , 630-638.		31
30	Pixel Transposed Convolutional Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	13.9	40
31	XFake: Explainable Fake News Detector with Visualizations. , 2019, , .		42
32	Learning Graph Pooling and Hybrid Convolutional Operations for Text Representations. , 2019, , .		15
33	A deep transfer learning approach for improved post-traumatic stress disorder diagnosis. Knowledge and Information Systems, 2019, 60, 1693-1724.	3.2	36
34	An Efficient Policy Gradient Method for Conditional Dialogue Generation. , 2019, , .		0
35	Learning Hierarchical and Shared Features for Improving 3D Neuron Reconstruction. , 2019, , .		8
36	Learning Local and Global Multi-context Representations for Document Classification. , 2019, , .		4

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37	Interpreting Deep Models for Text Analysis via Optimization and Regularization Methods. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 5717-5724.	4.9	21
38	Computational modeling of cellular structures using conditional deep generative networks. Bioinformatics, 2019, 35, 2141-2149.	4.1	20
39	An Interpretable Neural Model with Interactive Stepwise Influence. Lecture Notes in Computer Science, 2019, , 528-540.	1.3	1
40	Dense Transformer Networks for Brain Electron Microscopy Image Segmentation. , 2019, , .		4
41	Multi-View Missing Data Completion. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1296-1309.	5.7	31
42	Neuronal Activities in the Mouse Visual Cortex Predict Patterns of Sensory Stimuli. Neuroinformatics, 2018, 16, 473-488.	2.8	9
43	Large-scale Exploration of Neuronal Morphologies Using Deep Learning and Augmented Reality. Neuroinformatics, 2018, 16, 339-349.	2.8	12
44	Three-dimensional protein shape similarity analysis based on hybrid features. Gene, 2018, 663, 138-147.	2.2	2
45	Learning Convolutional Text Representations for Visual Question Answering. , 2018, , 594-602.		8
46	Voxel Deconvolutional Networks for 3D Brain Image Labeling. , 2018, 2018, 1226-1234.		13
47	Deep Adversarial Learning for Multi-Modality Missing Data Completion. , 2018, , .		65
48	Smoothed Dilated Convolutions for Improved Dense Prediction. , 2018, , .		81
49	Large-Scale Learnable Graph Convolutional Networks. , 2018, , .		336
50	Feature Selection Based on Structured Sparsity: A Comprehensive Study. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1490-1507.	11.3	239
51	Deep Learning Segmentation of Optical Microscopy Images Improves 3-D Neuron Reconstruction. IEEE Transactions on Medical Imaging, 2017, 36, 1533-1541.	8.9	104
52	DeepEM3D: approaching human-level performance on 3D anisotropic EM image segmentation. Bioinformatics, 2017, 33, 2555-2562.	4.1	70
53	Multi-Modality Disease Modeling via Collective Deep Matrix Factorization. , 2017, , .		18
54	Residual Deconvolutional Networks for Brain Electron Microscopy Image Segmentation. IEEE Transactions on Medical Imaging, 2017, 36, 447-456.	8.9	98

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55	A Deep Transfer Learning Approach for Improved Post-Traumatic Stress Disorder Diagnosis. , 2017, , .		27
56	Efficient and Invariant Convolutional Neural Networks for Dense Prediction. , 2017, , .		6
57	Recurrent Encoder-Decoder Networks for Time-Varying Dense Prediction. , 2017, , .		3
58	IDM 2017. , 2017, , .		0
59	Segmenting delaminations in carbon fiber reinforced polymer composite CT using convolutional neural networks. AIP Conference Proceedings, 2016, , .	0.4	21
60	Parallel Lasso Screening for Big Data Optimization. , 2016, , .		2
61	Multi-Task Feature Interaction Learning. , 2016, , .		24
62	Deep convolutional neural networks for detecting secondary structures in protein density maps from cryo-electron microscopy. , 2016, 2016, 41-46.		47
63	Collaborative Multi-View Denoising. , 2016, , .		6
64	Deep models for brain EM image segmentation: novel insights and improved performance. Bioinformatics, 2016, 32, 2352-2358.	4.1	43
65	Allen mouse brain atlases reveal different neural connection and gene expression patterns in cerebellum gyri and sulci. Brain Structure and Function, 2015, 220, 2691-2703.	2.3	25
66	Deep Convolutional Neural Networks for Multi-instance Multi-task Learning. , 2015, , .		32
67	Deep convolutional neural networks for multi-modality isointense infant brain image segmentation. NeuroImage, 2015, 108, 214-224.	4.2	662
68	Global analysis of gene expression and projection target correlations in the mouse brain. Brain Informatics, 2015, 2, 107-117.	3.0	13
69	Deep convolutional neural networks for annotating gene expression patterns in the mouse brain. BMC Bioinformatics, 2015, 16, 147.	2.6	53
70	A Robust Deep Model for Improved Classification of AD/MCI Patients. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1610-1616.	6.3	223
71	Deep Model Based Transfer and Multi-Task Learning for Biological Image Analysis. , 2015, , .		82
72	Sparsity Learning Formulations for Mining Time-Varying Data. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 1411-1423.	5.7	8

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73	High-resolution prediction of mouse brain connectivity using gene expression patterns. <i>Methods</i> , 2015, 73, 71-78.	3.8	29
74	Evolutionary soft co-clustering: formulations, algorithms, and applications. <i>Data Mining and Knowledge Discovery</i> , 2015, 29, 765-791.	3.7	11
75	Structural Graphical Lasso for Learning Mouse Brain Connectivity. , 2015, , .		20
76	Automated annotation of developmental stages of <i>Drosophila</i> embryos in images containing spatial patterns of expression. <i>Bioinformatics</i> , 2014, 30, 266-273.	4.1	12
77	Deep Learning Based Imaging Data Completion for Improved Brain Disease Diagnosis. <i>Lecture Notes in Computer Science</i> , 2014, 17, 305-312.	1.3	249
78	Robust Deep Learning for Improved Classification of AD/MCI Patients. <i>Lecture Notes in Computer Science</i> , 2014, , 240-247.	1.3	23
79	Automated identification of cell-type-specific genes in the mouse brain by image computing of expression patterns. <i>BMC Bioinformatics</i> , 2014, 15, 209.	2.6	7
80	How to Estimate the Regularization Parameter for Spectral Regression Discriminant Analysis and its Kernel Version?. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2014, 24, 211-223.	8.3	31
81	Integrative analysis of the connectivity and gene expression atlases in the mouse brain. <i>NeuroImage</i> , 2014, 84, 245-253.	4.2	41
82	AUTOMATED GENE EXPRESSION PATTERN ANNOTATION IN THE MOUSE BRAIN. , 2014, , .		1
83	Computational genetic neuroanatomy of the developing mouse brain: dimensionality reduction, visualization, and clustering. <i>BMC Bioinformatics</i> , 2013, 14, 222.	2.6	22
84	A mesh generation and machine learning framework for <i>Drosophila</i> gene expression pattern image analysis. <i>BMC Bioinformatics</i> , 2013, 14, 372.	2.6	8
85	Image-level and group-level models for <i>Drosophila</i> gene expression pattern annotation. <i>BMC Bioinformatics</i> , 2013, 14, 350.	2.6	12
86	A Probabilistic Latent Semantic Analysis Model for Coclustering the Mouse Brain Atlas. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2013, 10, 1460-1468.	3.0	5
87	3D Convolutional Neural Networks for Human Action Recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013, 35, 221-231.	13.9	4,472
88	Multiview Partitioning via Tensor Methods. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2013, 25, 1056-1069.	5.7	55
89	Evolutionary Soft Co-Clustering. , 2013, , .		4
90	A sparsity-inducing formulation for evolutionary co-clustering. , 2012, , .		9

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91	Learning Sparse Representations for Fruit-Fly Gene Expression Pattern Image Annotation and Retrieval. BMC Bioinformatics, 2012, 13, 107.	2.6	16
92	Drosophila Gene Expression Pattern Annotation through Multi-Instance Multi-Label Learning. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 98-112.	3.0	53
93	A Machine Learning Approach for the Identification of Protein Secondary Structure Elements from Electron Cryo-µMicroscopy Density Maps. Biopolymers, 2012, 97, 698-708.	2.4	87
94	Discriminant sparse neighborhood preserving embedding for face recognition. Pattern Recognition, 2012, 45, 2884-2893.	8.1	229
95	Canonical Correlation Analysis for Multilabel Classification: A Least-Squares Formulation, Extensions, and Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 194-200.	13.9	214
96	Computational network analysis of the anatomical and genetic organizations in the mouse brain. Bioinformatics, 2011, 27, 3293-3299.	4.1	15
97	FlyExpress: visual mining of spatiotemporal patterns for genes and publications in <i>Drosophila</i> embryogenesis. Bioinformatics, 2011, 27, 3319-3320.	4.1	64
98	Trace Norm Regularization: Reformulations, Algorithms, and Multi-Task Learning. SIAM Journal on Optimization, 2010, 20, 3465-3489.	2.0	157
99	A shared-subspace learning framework for multi-label classification. ACM Transactions on Knowledge Discovery From Data, 2010, 4, 1-29.	3.5	265
100	An accelerated gradient method for trace norm minimization. , 2009, , .		317
101	Mining discrete patterns via binary matrix factorization. , 2009, , .		30
102	Drosophila gene expression pattern annotation using sparse features and term-term interactions. , 2009, 2009, 407-415.		24
103	A bag-of-words approach for Drosophila gene expression pattern annotation. BMC Bioinformatics, 2009, 10, 119.	2.6	35
104	A least squares formulation for a class of generalized eigenvalue problems in machine learning. , 2009, , .		28
105	Drosophila Gene Expression Pattern Annotation through Multi-Instance Multi-Label Learning. IJCAI: Proceedings of the Conference, 2009, 2009, 1445-1450.	0.5	5
106	Adaptive diffusion kernel learning from biological networks for protein function prediction. BMC Bioinformatics, 2008, 9, 162.	2.6	11
107	Kernel Uncorrelated and Regularized Discriminant Analysis: A Theoretical and Computational Study. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 1311-1321.	5.7	13
108	Generalized Linear Discriminant Analysis: A Unified Framework and Efficient Model Selection. IEEE Transactions on Neural Networks, 2008, 19, 1768-1782.	4.2	156

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109	A unified framework for generalized Linear Discriminant Analysis. , 2008, , .		4
110	Extracting shared subspace for multi-label classification. , 2008, , .		139
111	Automated annotation of <i>Drosophila</i> gene expression patterns using a controlled vocabulary. <i>Bioinformatics</i> , 2008, 24, 1881-1888.	4.1	33
112	Hypergraph spectral learning for multi-label classification. , 2008, , .		180
113	Learning subspace kernels for classification. , 2008, , .		11
114	A least squares formulation for canonical correlation analysis. , 2008, , .		59
115	Discriminant kernel and regularization parameter learning via semidefinite programming. , 2007, , .		17
116	Learning the kernel matrix in discriminant analysis via quadratically constrained quadratic programming. , 2007, , .		16
117	Discriminant Analysis for Dimensionality Reduction: An Overview of Recent Developments. , 0, , 1-19.		12