

# Xiaolin Hu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46  
papers

1,999  
citations

19  
h-index

44  
g-index

53  
ext. papers

2,957  
ext. citations

5.6  
avg, IF

5.6  
L-index

#	Paper	IF	Citations
46	Bridging the Functional and Wiring Properties of V1 Neurons Through Sparse Coding. <i>Neural Computation</i> , <b>2021</b> , 1-34	2.9	
45	End-to-end face parsing via interlinked convolutional neural networks. <i>Cognitive Neurodynamics</i> , <b>2021</b> , 15, 169-179	4.2	5
44	Convolutional Neural Networks with Gated Recurrent Connections. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , PP,	13.3	2
43	Vocabulary-Wide Credit Assignment for Training Image Captioning Models. <i>IEEE Transactions on Image Processing</i> , <b>2021</b> , 30, 2450-2460	8.7	5
42	Interpret Neural Networks by Extracting Critical Subnetworks. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> ,	8.7	2
41	A Hierarchical Recurrent Neural Network for Symbolic Melody Generation. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 2749-2757	10.2	16
40	Self-similar network model for fractional-order neuronal spiking: implications of dendritic spine functions. <i>Nonlinear Dynamics</i> , <b>2020</b> , 100, 921-935	5	9
39	. <i>IEEE Transactions on Multimedia</i> , <b>2020</b> , 22, 1796-1807	6.6	8
38	A Semantics-Assisted Video Captioning Model Trained With Scheduled Sampling. <i>Frontiers in Robotics and AI</i> , <b>2020</b> , 7, 475767	2.8	9
37	Line-CNN: End-to-End Traffic Line Detection With Line Proposal Unit. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 21, 248-258	6.1	37
36	An Oscillator Ensemble Model of Sequence Learning. <i>Frontiers in Integrative Neuroscience</i> , <b>2019</b> , 13, 43	3.2	
35	Evaluate the Malignancy of Pulmonary Nodules Using the 3-D Deep Leaky Noisy-OR Network. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2019</b> , 30, 3484-3495	10.3	160
34	A hierarchical sparse coding model predicts acoustic feature encoding in both auditory midbrain and cortex. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1006766	5	3
33	Learning Sparse Hidden States in Long Short-Term Memory. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 288-298	0.9	
32	Improving Pedestrian Attribute Recognition With Weakly-Supervised Multi-Scale Attribute-Specific Localization <b>2019</b> ,		22
31	Understanding the Disharmony Between Dropout and Batch Normalization by Variance Shift <b>2019</b> ,		70
30	Topic-Oriented Image Captioning Based on Order-Embedding. <i>IEEE Transactions on Image Processing</i> , <b>2019</b> , 28, 2743-2754	8.7	27

29	Estimation of the Volume of the Left Ventricle From MRI Images Using Deep Neural Networks. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 495-504	10.2	26
28	Boosting Adversarial Attacks with Momentum <b>2018</b> ,		436
27	Defense Against Adversarial Attacks Using High-Level Representation Guided Denoiser <b>2018</b> ,		176
26	Interpret Neural Networks by Identifying Critical Data Routing Paths <b>2018</b> ,		19
25	Recurrent convolutional neural network for speech processing <b>2017</b> ,		13
24	Convolution Neural Networks With Two Pathways for Image Style Recognition. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 4102-4113	8.7	34
23	Accelerating convolutional neural networks by group-wise 2D-filter pruning <b>2017</b> ,		15
22	FxpNet: Training a deep convolutional neural network in fixed-point representation <b>2017</b> ,		16
21	Deep Learning Predicts Correlation between a Functional Signature of Higher Visual Areas and Sparse Firing of Neurons. <i>Frontiers in Computational Neuroscience</i> , <b>2017</b> , 11, 100	3.5	6
20	Delving deeper into convolutional neural networks for camera relocalization <b>2017</b> ,		39
19	Deciphering phonemes from syllables in blood oxygenation level-dependent signals in human superior temporal gyrus. <i>European Journal of Neuroscience</i> , <b>2016</b> , 43, 773-81	3.5	10
18	Solving the K-shortest paths problem in timetable-based public transportation systems. <i>Journal of Intelligent Transportation Systems: Technology, Planning, and Operations</i> , <b>2016</b> , 20, 413-427	3.2	5
17	Joint Training of Cascaded CNN for Face Detection <b>2016</b> ,		93
16	Efficient reinforcement learning of a reservoir network model of parametric working memory achieved with a cluster population winner-take-all readout mechanism. <i>Journal of Neurophysiology</i> , <b>2015</b> , 114, 3296-305	3.2	4
15	Neural representation of three-dimensional acoustic space in the human temporal lobe. <i>Frontiers in Human Neuroscience</i> , <b>2015</b> , 9, 203	3.3	8
14	Recurrent convolutional neural network for object recognition <b>2015</b> ,		298
13	Interlinked Convolutional Neural Networks for Face Parsing. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 222-231	0.9	17
12	Modeling response properties of V2 neurons using a hierarchical K-means model. <i>Neurocomputing</i> , <b>2014</b> , 134, 198-205	5.4	5

11	Sparsity-regularized HMAX for visual recognition. <i>PLoS ONE</i> , <b>2014</b> , 9, e81813	3.7	44
10	A Reverse Hierarchy Model for Predicting Eye Fixations <b>2014</b> ,		9
9	Traffic sign detection by ROI extraction and histogram features-based recognition <b>2013</b> ,		48
8	Traffic sign detection based on convolutional neural networks <b>2013</b> ,		51
7	A compact neural network for training support vector machines. <i>Neurocomputing</i> , <b>2012</b> , 86, 193-198	5.4	10
6	A Gaussian attractor network for memory and recognition with experience-dependent learning. <i>Neural Computation</i> , <b>2010</b> , 22, 1333-57	2.9	7
5	Design of recurrent neural networks for solving constrained least absolute deviation problems. <i>IEEE Transactions on Neural Networks</i> , <b>2010</b> , 21, 1073-86		21
4	A new recurrent neural network for solving convex quadratic programming problems with an application to the k-winners-take-all problem. <i>IEEE Transactions on Neural Networks</i> , <b>2009</b> , 20, 654-64		41
3	Motion planning with obstacle avoidance for kinematically redundant manipulators based on two recurrent neural networks <b>2009</b> ,		7
2	An alternative recurrent neural network for solving variational inequalities and related optimization problems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2009</b> , 39, 1640-5		29
1	An improved dual neural network for solving a class of quadratic programming problems and its k-winners-take-all application. <i>IEEE Transactions on Neural Networks</i> , <b>2008</b> , 19, 2022-31		134