

# Dong Xing

## List of Publications by Year in descending order

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114  
papers

2,966  
citations

201674

27  
h-index

243625

44  
g-index

114  
all docs

114  
docs citations

114  
times ranked

3224  
citing authors

#	ARTICLE	IF	CITATIONS
1	Eyeblink-based Anti-Spoofing in Face Recognition from a Generic Webcamera. , 2007, , .		402
2	Land-Use Classification Using Taxi GPS Traces. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 113-123.	8.0	245
3	Understanding Taxi Service Strategies From Taxi GPS Traces. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 123-135.	8.0	148
4	Monocular camera-based face liveness detection by combining eyeblink and scene context. Telecommunication Systems, 2011, 47, 215-225.	2.5	124
5	Overfitting remedy by sparsifying regularization on fully-connected layers of CNNs. Neurocomputing, 2019, 328, 69-74.	5.9	119
6	Distinct subnetworks of the thalamic reticular nucleus. Nature, 2020, 583, 819-824.	27.8	104
7	Semantic Health Knowledge Graph: Semantic Integration of Heterogeneous Medical Knowledge and Services. BioMed Research International, 2017, 2017, 1-12.	1.9	69
8	Weakly Supervised Metric Learning for Traffic Sign Recognition in a LIDAR-Equipped Vehicle. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1415-1427.	8.0	68
9	Container Port Performance Measurement and Comparison Leveraging Ship GPS Traces and Maritime Open Data. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1227-1242.	8.0	65
10	A Smart Car Control Model for Brake Comfort Based on Car Following. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 42-46.	8.0	58
11	Darwin: a neuromorphic hardware co-processor based on Spiking Neural Networks. Science China Information Sciences, 2016, 59, 1-5.	4.3	56
12	Suspecting Less and Doing Better: New Insights on Palmprint Identification for Faster and More Accurate Matching. IEEE Transactions on Information Forensics and Security, 2016, 11, 633-641.	6.9	53
13	A toolbox for brain network construction and classification (BrainNetClass). Human Brain Mapping, 2020, 41, 2808-2826.	3.6	52
14	Bioresorbable Electrode Array for Electrophysiological and Pressure Signal Recording in the Brain. Advanced Healthcare Materials, 2019, 8, e1801649.	7.6	44
15	3D FACE RECOGNITION FROM RANGE DATA. International Journal of Image and Graphics, 2005, 05, 573-593.	1.5	41
16	Fine-Grained Urban Event Detection and Characterization Based on Tensor Cofactorization. IEEE Transactions on Human-Machine Systems, 2017, 47, 380-391.	3.5	41
17	Effects of 20â€™Hz Repetitive Transcranial Magnetic Stimulation on Disorders of Consciousness: A Resting-State Electroencephalography Study. Neural Plasticity, 2018, 2018, 1-8.	2.2	41
18	STCA: Spatio-Temporal Credit Assignment with Delayed Feedback in Deep Spiking Neural Networks. , 2019, , .		41

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19	Visual Cue-Guided Rat Cyborg for Automatic Navigation [Research Frontier]. IEEE Computational Intelligence Magazine, 2015, 10, 42-52.	3.2	40
20	GeeAir: a universal multimodal remote control device for home appliances. Personal and Ubiquitous Computing, 2010, 14, 723-735.	2.8	39
21	Rapid Decoding of Hand Gestures in Electroencephalography Using Recurrent Neural Networks. Frontiers in Neuroscience, 2018, 12, 555.	2.8	39
22	CSNN: An Augmented Spiking based Framework with Perceptron-Inception. , 2018, , .		38
23	Remembered or Forgotten? An EEG-Based Computational Prediction Approach. PLoS ONE, 2016, 11, e0167497.	2.5	37
24	Context-aware smart car: from model to prototype. Journal of Zhejiang University: Science A, 2009, 10, 1049-1059.	2.4	36
25	AppUsage2Vec: Modeling Smartphone App Usage for Prediction. , 2019, , .		36
26	Cyborg Intelligence: Recent Progress and Future Directions. IEEE Intelligent Systems, 2016, 31, 44-50.	4.0	35
27	How Long a Passenger Waits for a Vacant Taxi – Large-Scale Taxi Trace Mining for Smart Cities. , 2013, , .		34
28	3D Face Recognition using Mapped Depth Images. , 0, , .		33
29	Counting moving people in crowds using motion statistics of feature-points. Multimedia Tools and Applications, 2014, 72, 453-487.	3.9	30
30	Human Mind Control of Rat Cyborg's Continuous Locomotion with Wireless Brain-to-Brain Interface. Scientific Reports, 2019, 9, 1321.	3.3	30
31	Mining User Attributes Using Large-Scale APP Lists of Smartphones. IEEE Systems Journal, 2017, 11, 315-323.	4.6	29
32	Association of medial prefrontal cortex connectivity with consciousness level and its outcome in patients with acquired brain injury. Journal of Clinical Neuroscience, 2017, 42, 160-166.	1.5	29
33	Behavioral and Resting State Functional Connectivity Effects of High Frequency rTMS on Disorders of Consciousness: A Sham-Controlled Study. Frontiers in Neurology, 2018, 9, 982.	2.4	29
34	Deep CovDenseSNN: A hierarchical event-driven dynamic framework with spiking neurons in noisy environment. Neural Networks, 2020, 121, 512-519.	5.9	29
35	Intelligence-Augmented Rat Cyborgs in Maze Solving. PLoS ONE, 2016, 11, e0147754.	2.5	28
36	Structural connectome alterations in patients with disorders of consciousness revealed by 7-tesla magnetic resonance imaging. NeuroImage: Clinical, 2019, 22, 101702.	2.7	28

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37	Measuring social functions of city regions from large-scale taxi behaviors. , 2011, , .		26
38	Location Inference for Non-Geotagged Tweets in User Timelines. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 1150-1165.	5.7	26
39	Online Community Detection for Large Complex Networks. PLoS ONE, 2014, 9, e102799.	2.5	24
40	Infrastructure and Reliability Analysis of Electric Networks for E-Textiles. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 36-51.	2.9	19
41	Correlations between diffusion tensor imaging and levels of consciousness in patients with traumatic brain injury: a systematic review and meta-analysis. Scientific Reports, 2017, 7, 2793.	3.3	19
42	Generating fluent tubes in video synopsis. , 2013, , .		18
43	SparseConnect: regularising CNNs on fully connected layers. Electronics Letters, 2017, 53, 1246-1248.	1.0	18
44	PAIR Comparison between Two Within-Group Conditions of Resting-State fMRI Improves Classification Accuracy. Frontiers in Neuroscience, 2018, 11, 740.	2.8	18
45	Facial expression recognition based on meta probability codes. Pattern Analysis and Applications, 2014, 17, 763-781.	4.6	17
46	Nonlinear Modeling of Neural Interaction for Spike Prediction Using the Staged Point-Process Model. Neural Computation, 2018, 30, 3189-3226.	2.2	16
47	3d face recognition using local shape map. , 0, , .		15
48	A Survey of Neuromorphic Computing Based on Spiking Neural Networks. Chinese Journal of Electronics, 2018, 27, 667-674.	1.5	15
49	3D face recognition by profile and surface matching. , 0, , .		14
50	A data hiding method for few-color images. , 2002, , .		13
51	Automatic Training of Rat Cyborgs for Navigation. Computational Intelligence and Neuroscience, 2016, 2016, 1-12.	1.7	13
52	Learning Robust Features From Nonstationary Brain Signals by Multiscale Domain Adaptation Networks for Seizure Prediction. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 1208-1216.	3.8	13
53	Collaborative Policy Administration. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 498-507.	5.6	11
54	A decrease of ripples precedes seizure onset in mesial temporal lobe epilepsy. Experimental Neurology, 2016, 284, 29-37.	4.1	11

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55	Understanding bike trip patterns leveraging bike sharing system open data. <i>Frontiers of Computer Science</i> , 2017, 11, 38-48.	2.4	11
56	Efficient Novelty Search Through Deep Reinforcement Learning. <i>IEEE Access</i> , 2020, 8, 128809-128818.	4.2	11
57	Jointly Learning Network Connections and Link Weights in Spiking Neural Networks. , 2018, , .		11
58	Removal of 3D facial expressions: A learning-based approach. , 2010, , .		10
59	Complementary base station clustering for cost-effective and energy-efficient cloud-RAN. , 2017, , .		10
60	Spontaneous Recovery from Unresponsive Wakefulness Syndrome to a Minimally Conscious State: Early Structural Changes Revealed by 7-T Magnetic Resonance Imaging. <i>Frontiers in Neurology</i> , 2017, 8, 741.	2.4	10
61	ESCORT: Fine-Grained Urban Crime Risk Inference Leveraging Heterogeneous Open Data. <i>IEEE Systems Journal</i> , 2021, 15, 4656-4667.	4.6	10
62	COMBINING VELOCITY AND LOCATION-SPECIFIC SPATIAL CLUES IN TRAJECTORIES FOR COUNTING CROWDED MOVING OBJECTS. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2013, 27, 1354003.	1.2	9
63	Speech interaction with a rat. <i>Science Bulletin</i> , 2014, 59, 3579-3584.	1.7	9
64	Odor Recognition with a Spiking Neural Network for Bioelectronic Nose. <i>Sensors</i> , 2019, 19, 993.	3.8	9
65	Finding Symmetry Plane of 3D Face Shape. , 2006, , .		8
66	Touch-Driven Interaction between Physical Space and Cyberspace with NFC. , 2011, , .		8
67	MULTICLASS CLASSIFICATION BASED ON META PROBABILITY CODES. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2011, 25, 1219-1241.	1.2	8
68	A Supervised Multi-Spike Learning Algorithm for Spiking Neural Networks. , 2018, , .		8
69	Dynamic Ensemble Bayesian Filter for Robust Control of a Human Brain-Machine Interface. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 3825-3835.	4.2	8
70	EnUp: Energy-Efficient Data Uploading for Mobile Crowd Sensing Applications. , 2016, , .		7
71	Contactless 3D fingerprint identification without 3D reconstruction. , 2018, , .		7
72	Binless Kernel Machine: Modeling Spike Train Transformation for Cognitive Neural Prostheses. <i>Neural Computation</i> , 2020, 32, 1863-1900.	2.2	7

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73	A Monte Carlo Neural Fictitious Self-Play approach to approximate Nash Equilibrium in imperfect-information dynamic games. <i>Frontiers of Computer Science</i> , 2021, 15, 1.	2.4	7
74	A Unified Approach for Multi-step Temporal-Difference Learning with Eligibility Traces in Reinforcement Learning. , 2018, , .		7
75	Microstructural profiles of thalamus and thalamocortical connectivity in patients with disorder of consciousness. <i>Journal of Neuroscience Research</i> , 2021, 99, 3261-3273.	2.9	7
76	Robust Metric and Alignment for Profile-Based Face Recognition: An Experimental Comparison. , 2005, , .		6
77	Touch-driven interaction via an NFC-enabled smartphone. , 2012, , .		6
78	GreenBicycling: A Smartphone-Based Public Bicycle Sharing System for Healthy Life. , 2013, , .		6
79	Predicting Spike Trains from PMd to M1 Using Discrete Time Rescaling Targeted GLM. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2018, 10, 194-204.	3.8	6
80	Indoor Lighting Estimation using an Event Camera. , 2021, , .		6
81	Robust neural decoding by kernel regression with Siamese representation learning. <i>Journal of Neural Engineering</i> , 2021, 18, 056062.	3.5	6
82	Semantic Device Bus for Internet of Things. , 2010, , .		5
83	Knowledge-Guided Agent-Tactic-Aware Learning for StarCraft Micromanagement. , 2018, , .		5
84	Dynamic Distribution Alignment With Dual-Subspace Mapping for Cross-Subject Driver Mental State Detection. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2022, 14, 1705-1716.	3.8	5
85	Multi-Level Firing with Spiking DS-ResNet: Enabling Better and Deeper Directly-Trained Spiking Neural Networks. , 2022, , .		5
86	iCPS-Car: An Intelligent Cyber-physical System for Smart Automobiles. , 2013, , .		4
87	Ubiquitous Intelligence and computing for enabling a smarter world. <i>Personal and Ubiquitous Computing</i> , 2017, 21, 407-409.	2.8	4
88	Learning-based super-resolution of 3D face model. , 2005, , .		3
89	GeeAir: Waving in the Air to Control Home Appliances. , 2010, , .		3
90	An Intensive Location-Aware Framework for Device-Involved Human Tasks. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
91	Finding Influential Local Users with Similar Interest from Geo-Tagged Social Media Data. , 2017, , .		3
92	State Distribution-Aware Sampling for Deep Q-Learning. Neural Processing Letters, 2019, 50, 1649-1660.	3.2	3
93	RCIT: An RSVP-Based Concealed Information Test Framework Using EEG Signals. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 541-551.	3.8	3
94	Training Deep Convolutional Spiking Neural Networks With Spike Probabilistic Global Pooling. Neural Computation, 2022, 34, 1170-1188.	2.2	3
95	Answering medical questions in Chinese using automatically mined knowledge and deep neural networks: an end-to-end solution. BMC Bioinformatics, 2022, 23, 136.	2.6	3
96	ScudOSGi: Enabling Facility-Involved Task Migration in OSGi Framework. , 2009, , .		2
97	A deformation model to reduce the effect of expressions in 3D face recognition. Visual Computer, 2011, 27, 333-345.	3.5	2
98	Mind-controlled ratbot: A brain-to-brain system. , 2014, , .		2
99	Location Inference for Non-Geotagged Tweets in User Timelines [Extended Abstract]. , 2019, , .		2
100	Maximum Entropy Reinforcement Learning with Evolution Strategies. , 2020, , .		2
101	Brain-Machine Interface-Based Rat-Robot Behavior Control. Advances in Experimental Medicine and Biology, 2019, 1101, 123-147.	1.6	2
102	What are more important for aftershock spatial distribution prediction, features, or models? A case study in China. Journal of Seismology, 0, , 1.	1.3	2
103	Event-Based Multimodal Spiking Neural Network with Attention Mechanism. , 2022, , .		2
104	Deriving similarity graphs from open linked data on Semantic Web. , 2009, , .		1
105	SmartShadow: Modeling a user-centric mobile virtual space. , 2009, , .		1
106	Incorporating Hand-crafted Features to Deep Neural Networks for Seizure Prediction. , 2018, , .		1
107	Dynamic road crime risk prediction with urban open data. Frontiers of Computer Science, 2022, 16, 1.	2.4	1
108	Automatic 3D face verification from range data. , 2003, , .		0

#	ARTICLE	IF	CITATIONS
109	Human face orientation detection using power spectrum based measurements. , 0, , .		0
110	WaterLady: A Case Study for Connecting Physical Devices into Social Networks. , 2012, , .		0
111	Building a commonsense knowledge base for context-awareness inference. , 2013, , .		0
112	High-fidelity compression of extracellular recordings from motor cortex. , 2014, , .		0
113	Epileptic State Segmentation with Temporal-Constrained Clustering. , 2018, , .		0
114	Cyborgan OS: A Lightweight Real-Time Operating System for Artificial Organ. Security and Communication Networks, 2020, 2020, 1-9.	1.5	0