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	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
2	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
3	Dynamic road crime risk prediction with urban open data. Frontiers of Computer Science, 2022, 16, 1.	2.4	1
4	Dynamic Distribution Alignment With Dual-Subspace Mapping for Cross-Subject Driver Mental State Detection. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 1705-1716.	3.8	5
5	Training Deep Convolutional Spiking Neural Networks With Spike Probabilistic Global Pooling. Neural Computation, 2022, 34, 1170-1188.	2.2	3
6	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
7	Event-Based Multimodal Spiking Neural Network with Attention Mechanism. , 2022, , .		2
8	Dynamic Ensemble Bayesian Filter for Robust Control of a Human Brain-Machine Interface. IEEE Transactions on Biomedical Engineering, 2022, 69, 3825-3835.	4.2	8
9	Multi-Level Firing with Spiking DS-ResNet: Enabling Better and Deeper Directly-Trained Spiking Neural Networks. , 2022, , .		5
10	ESCORT: Fine-Grained Urban Crime Risk Inference Leveraging Heterogeneous Open Data. IEEE Systems Journal, 2021, 15, 4656-4667.	4.6	10
11	A Monte Carlo Neural Fictitious Self-Play approach to approximate Nash Equilibrium in imperfect-information dynamic games. Frontiers of Computer Science, 2021, 15, 1.	2.4	7
12	Indoor Lighting Estimation using an Event Camera. , 2021, , .		6
13	Robust neural decoding by kernel regression with Siamese representation learning. Journal of Neural Engineering, 2021, 18, 056062.	3.5	6
14	Microstructural profiles of thalamus and thalamocortical connectivity in patients with disorder of consciousness. Journal of Neuroscience Research, 2021, 99, 3261-3273.	2.9	7
15	Deep CovDenseSNN: A hierarchical event-driven dynamic framework with spiking neurons in noisy environment. Neural Networks, 2020, 121, 512-519.	5.9	29
16	Distinct subnetworks of the thalamic reticular nucleus. Nature, 2020, 583, 819-824.	27.8	104
17	Efficient Novelty Search Through Deep Reinforcement Learning. IEEE Access, 2020, 8, 128809-128818.	4.2	11
18	Maximum Entropy Reinforcement Learning with Evolution Strategies. , 2020, , .		2

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19	Binless Kernel Machine: Modeling Spike Train Transformation for Cognitive Neural Prostheses. Neural Computation, 2020, 32, 1863-1900.	2.2	7
20	Cyborgan OS: A Lightweight Real-Time Operating System for Artificial Organ. Security and Communication Networks, 2020, 2020, 1-9.	1.5	0
21	A toolbox for brain network construction and classification (BrainNetClass). Human Brain Mapping, 2020, 41, 2808-2826.	3.6	52
22	Overfitting remedy by sparsifying regularization on fully-connected layers of CNNs. Neurocomputing, 2019, 328, 69-74.	5.9	119
23	Location Inference for Non-Geotagged Tweets in User Timelines. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 1150-1165.	5.7	26
24	State Distribution-Aware Sampling for Deep Q-Learning. Neural Processing Letters, 2019, 50, 1649-1660.	3.2	3
25	AppUsage2Vec: Modeling Smartphone App Usage for Prediction. , 2019, , .		36
26	Location Inference for Non-Geotagged Tweets in User Timelines [Extended Abstract]. , 2019, , .		2
27	Structural connectome alterations in patients with disorders of consciousness revealed by 7-tesla magnetic resonance imaging. NeuroImage: Clinical, 2019, 22, 101702.	2.7	28
28	Human Mind Control of Rat Cyborgâ€™s Continuous Locomotion with Wireless Brain-to-Brain Interface. Scientific Reports, 2019, 9, 1321.	3.3	30
29	Bioresorbable Electrode Array for Electrophysiological and Pressure Signal Recording in the Brain. Advanced Healthcare Materials, 2019, 8, e1801649.	7.6	44
30	Odor Recognition with a Spiking Neural Network for Bioelectronic Nose. Sensors, 2019, 19, 993.	3.8	9
31	STCA: Spatio-Temporal Credit Assignment with Delayed Feedback in Deep Spiking Neural Networks. , 2019, , .		41
32	Brain-Machine Interface-Based Rat-Robot Behavior Control. Advances in Experimental Medicine and Biology, 2019, 1101, 123-147.	1.6	2
33	Predicting Spike Trains from PMd to M1 Using Discrete Time Rescaling Targeted GLM. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 194-204.	3.8	6
34	Incorporating Hand-crafted Features to Deep Neural Networks for Seizure Prediction. , 2018, , .		1
35	Epileptic State Segmentation with Temporal-Constrained Clustering. , 2018, , .		0
36	A Supervised Multi-Spike Learning Algorithm for Spiking Neural Networks. , 2018, , .		8

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37	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
38	Nonlinear Modeling of Neural Interaction for Spike Prediction Using the Staged Point-Process Model. Neural Computation, 2018, 30, 3189-3226.	2.2	16
39	A Survey of Neuromorphic Computing Based on Spiking Neural Networks. Chinese Journal of Electronics, 2018, 27, 667-674.	1.5	15
40	Rapid Decoding of Hand Gestures in Electrocorticography Using Recurrent Neural Networks. Frontiers in Neuroscience, 2018, 12, 555.	2.8	39
41	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
42	PAIR Comparison between Two Within-Group Conditions of Resting-State fMRI Improves Classification Accuracy. Frontiers in Neuroscience, 2018, 11, 740.	2.8	18
43	Contactless 3D fingerprint identification without 3D reconstruction. , 2018, , .		7
44	Jointly Learning Network Connections and Link Weights in Spiking Neural Networks. , 2018, , .		11
45	CSNN: An Augmented Spiking based Framework with Perceptron-Inception. , 2018, , .		38
46	A Unified Approach for Multi-step Temporal-Difference Learning with Eligibility Traces in Reinforcement Learning. , 2018, , .		7
47	Knowledge-Guided Agent-Tactic-Aware Learning for StarCraft Micromanagement. , 2018, , .		5
48	Mining User Attributes Using Large-Scale APP Lists of Smartphones. IEEE Systems Journal, 2017, 11, 315-323.	4.6	29
49	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
50	Ubiquitous Intelligence and computing for enabling a smarter world. Personal and Ubiquitous Computing, 2017, 21, 407-409.	2.8	4
51	Fine-Grained Urban Event Detection and Characterization Based on Tensor Cofactorization. IEEE Transactions on Human-Machine Systems, 2017, 47, 380-391.	3.5	41
52	Understanding bike trip patterns leveraging bike sharing system open data. Frontiers of Computer Science, 2017, 11, 38-48.	2.4	11
53	Finding Influential Local Users with Similar Interest from Geo-Tagged Social Media Data. , 2017, , .		3
54	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

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55	SparseConnect: regularising CNNs on fully connected layers. Electronics Letters, 2017, 53, 1246-1248.	1.0	18
56	Semantic Health Knowledge Graph: Semantic Integration of Heterogeneous Medical Knowledge and Services. BioMed Research International, 2017, 2017, 1-12.	1.9	69
57	Complementary base station clustering for cost-effective and energy-efficient cloud-RAN. , 2017, , .		10
58	Spontaneous Recovery from Unresponsive Wakefulness Syndrome to a Minimally Conscious State: Early Structural Changes Revealed by 7-T Magnetic Resonance Imaging. Frontiers in Neurology, 2017, 8, 741.	2.4	10
59	Automatic Training of Rat Cyborgs for Navigation. Computational Intelligence and Neuroscience, 2016, 2016, 1-12.	1.7	13
60	Intelligence-Augmented Rat Cyborgs in Maze Solving. PLoS ONE, 2016, 11, e0147754.	2.5	28
61	EnUp: Energy-Efficient Data Uploading for Mobile Crowd Sensing Applications. , 2016, , .		7
62	Cyborg Intelligence: Recent Progress and Future Directions. IEEE Intelligent Systems, 2016, 31, 44-50.	4.0	35
63	A decrease of ripples precedes seizure onset in mesial temporal lobe epilepsy. Experimental Neurology, 2016, 284, 29-37.	4.1	11
64	Darwin: a neuromorphic hardware co-processor based on Spiking Neural Networks. Science China Information Sciences, 2016, 59, 1-5.	4.3	56
65	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
66	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
67	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
68	Remembered or Forgotten?â€”An EEG-Based Computational Prediction Approach. PLoS ONE, 2016, 11, e0167497.	2.5	37
69	Visual Cue-Guided Rat Cyborg for Automatic Navigation [Research Frontier]. IEEE Computational Intelligence Magazine, 2015, 10, 42-52.	3.2	40
70	Understanding Taxi Service Strategies From Taxi GPS Traces. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 123-135.	8.0	148
71	High-fidelity compression of extracellular recordings from motor cortex. , 2014, , .		0
72	Facial expression recognition based on meta probability codes. Pattern Analysis and Applications, 2014, 17, 763-781.	4.6	17

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73	Mind-controlled ratbot: A brain-to-brain system. , 2014, , .		2
74	Speech interaction with a rat. Science Bulletin, 2014, 59, 3579-3584.	1.7	9
75	Collaborative Policy Administration. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 498-507.	5.6	11
76	Counting moving people in crowds using motion statistics of feature-points. Multimedia Tools and Applications, 2014, 72, 453-487.	3.9	30
77	Online Community Detection for Large Complex Networks. PLoS ONE, 2014, 9, e102799.	2.5	24
78	iCPS-Car: An Intelligent Cyber-physical System for Smart Automobiles. , 2013, , .		4
79	An Intensive Location-Aware Framework for Device-Involved Human Tasks. , 2013, , .		3
80	Land-Use Classification Using Taxi GPS Traces. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 113-123.	8.0	245
81	Generating fluent tubes in video synopsis. , 2013, , .		18
82	How Long a Passenger Waits for a Vacant Taxi -- Large-Scale Taxi Trace Mining for Smart Cities. , 2013, , .		34
83	GreenBicycling: A Smartphone-Based Public Bicycle Sharing System for Healthy Life. , 2013, , .		6
84	Building a commonsense knowledge base for context-awareness inference. , 2013, , .		0
85	COMBINING VELOCITY AND LOCATION-SPECIFIC SPATIAL CLUES IN TRAJECTORIES FOR COUNTING CROWDED MOVING OBJECTS. International Journal of Pattern Recognition and Artificial Intelligence, 2013, 27, 1354003.	1.2	9
86	WaterLady: A Case Study for Connecting Physical Devices into Social Networks. , 2012, , .		0
87	Touch-driven interaction via an NFC-enabled smartphone. , 2012, , .		6
88	Monocular camera-based face liveness detection by combining eyeblink and scene context. Telecommunication Systems, 2011, 47, 215-225.	2.5	124
89	A deformation model to reduce the effect of expressions in 3D face recognition. Visual Computer, 2011, 27, 333-345.	3.5	2
90	Measuring social functions of city regions from large-scale taxi behaviors. , 2011, , .		26

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91	Touch-Driven Interaction between Physical Space and Cyberspace with NFC. , 2011, , .		8
92	MULTICLASS CLASSIFICATION BASED ON META PROBABILITY CODES. International Journal of Pattern Recognition and Artificial Intelligence, 2011, 25, 1219-1241.	1.2	8
93	GeeAir: Waving in the Air to Control Home Appliances. , 2010, , .		3
94	GeeAir: a universal multimodal remote control device for home appliances. Personal and Ubiquitous Computing, 2010, 14, 723-735.	2.8	39
95	Semantic Device Bus for Internet of Things. , 2010, , .		5
96	Removal of 3D facial expressions: A learning-based approach. , 2010, , .		10
97	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
98	ScudOSGi: Enabling Facility-Involved Task Migration in OSGi Framework. , 2009, , .		2
99	Context-aware smart car: from model to prototype. Journal of Zhejiang University: Science A, 2009, 10, 1049-1059.	2.4	36
100	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
101	Deriving similarity graphs from open linked data on Semantic Web. , 2009, , .		1
102	SmartShadow: Modeling a user-centric mobile virtual space. , 2009, , .		1
103	Eyeblink-based Anti-Spoofing in Face Recognition from a Generic Webcamera. , 2007, , .		402
104	Finding Symmetry Plane of 3D Face Shape. , 2006, , .		8
105	Robust Metric and Alignment for Profile-Based Face Recognition: An Experimental Comparison. , 2005, , .		6
106	Learning-based super-resolution of 3D face model. , 2005, , .		3
107	3D FACE RECOGNITION FROM RANGE DATA. International Journal of Image and Graphics, 2005, 05, 573-593.	1.5	41
108	Automatic 3D face verification from range data. , 2003, , .		0

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109	A data hiding method for few-color images. , 2002, , .		13
110	3D face recognition by profile and surface matching. , 0, , .		14
111	Human face orientation detection using power spectrum based measurements. , 0, , .		0
112	3d face recognition using local shape map. , 0, , .		15
113	3D Face Recognition using Mapped Depth Images. , 0, , .		33
114	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