

Zehong Cao

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

2,541
citations

172207

29
h-index

223531

46
g-index

87
all docs

87
docs citations

87
times ranked

2307
citing authors

#	ARTICLE	IF	CITATIONS
1	Inherent Fuzzy Entropy for the Improvement of EEG Complexity Evaluation. IEEE Transactions on Fuzzy Systems, 2018, 26, 1032-1035.	6.5	164
2	EEG-Based Brain-Computer Interfaces (BCIs): A Survey of Recent Studies on Signal Sensing Technologies and Computational Intelligence Approaches and Their Applications. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1645-1666.	1.9	144
3	Multi-channel EEG recordings during a sustained-attention driving task. Scientific Data, 2019, 6, 19.	2.4	123
4	A Novel Conflict Measurement in Decision-Making and Its Application in Fault Diagnosis. IEEE Transactions on Fuzzy Systems, 2021, 29, 186-197.	6.5	110
5	Attribute reduction with fuzzy rough self-information measures. Information Sciences, 2021, 549, 68-86.	4.0	106
6	Cloud-Assisted Multiview Video Summarization Using CNN and Bidirectional LSTM. IEEE Transactions on Industrial Informatics, 2020, 16, 77-86.	7.2	101
7	Extraction of SSVEPs-Based Inherent Fuzzy Entropy Using a Wearable Headband EEG in Migraine Patients. IEEE Transactions on Fuzzy Systems, 2020, 28, 14-27.	6.5	86
8	Deep Neuro-Cognitive Co-Evolution for Fuzzy Attribute Reduction by Quantum Leaping PSO With Nearest-Neighbor Memplexes. IEEE Transactions on Cybernetics, 2019, 49, 2744-2757.	6.2	70
9	Effects of repetitive SSVEPs on EEG complexity using multiscale inherent fuzzy entropy. Neurocomputing, 2020, 389, 198-206.	3.5	69
10	An interval-valued Pythagorean prioritized operator-based game theoretical framework with its applications in multicriteria group decision making. Neural Computing and Applications, 2020, 32, 7641-7659.	3.2	60
11	Resting-state EEG power and coherence vary between migraine phases. Journal of Headache and Pain, 2016, 17, 102.	2.5	59
12	Identifying Ketamine Responses in Treatment-Resistant Depression Using a Wearable Forehead EEG. IEEE Transactions on Biomedical Engineering, 2019, 66, 1668-1679.	2.5	57
13	Brain Electrodynamics and Hemodynamic Signatures Against Fatigue During Driving. Frontiers in Neuroscience, 2018, 12, 181.	1.4	55
14	A Layered-Coevolution-Based Attribute-Boosted Reduction Using Adaptive Quantum-Behavior PSO and Its Consistent Segmentation for Neonates Brain Tissue. IEEE Transactions on Fuzzy Systems, 2018, 26, 1177-1191.	6.5	51
15	Seizure Prediction Using Directed Transfer Function and Convolution Neural Network on Intracranial EEG. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2711-2720.	2.7	50
16	Forehead EEG in Support of Future Feasible Personal Healthcare Solutions: Sleep Management, Headache Prevention, and Depression Treatment. IEEE Access, 2017, 5, 10612-10621.	2.6	48
17	Predicting individual decision-making responses based on single-trial EEG. NeuroImage, 2020, 206, 116333.	2.1	47
18	Multigranulation Supertrust Model for Attribute Reduction. IEEE Transactions on Fuzzy Systems, 2021, 29, 1395-1408.	6.5	45

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19	Reliability of EEG microstate analysis at different electrode densities during propofol-induced transitions of brain states. <i>NeuroImage</i> , 2021, 231, 117861.	2.1	44
20	Investigation of multiple heterogeneous relationships using a q-rung orthopair fuzzy multi-criteria decision algorithm. <i>Neural Computing and Applications</i> , 2021, 33, 10771.	3.2	42
21	A generalized R�nyi divergence for multi-source information fusion with its application in EEG data analysis. <i>Information Sciences</i> , 2022, 605, 225-243.	4.0	40
22	Shared Nearest-Neighbor Quantum Game-Based Attribute Reduction With Hierarchical Coevolutionary Spark and Its Application in Consistent Segmentation of Neonatal Cerebral Cortical Surfaces. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019, 30, 2013-2027.	7.2	39
23	A Fuzzy Interval Time-Series Energy and Financial Forecasting Model Using Network-Based Multiple Time-Frequency Spaces and the Induced-Ordered Weighted Averaging Aggregation Operation. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 2677-2690.	6.5	39
24	A fuzzy preference-based Dempster-Shafer evidence theory for decision fusion. <i>Information Sciences</i> , 2021, 570, 306-322.	4.0	39
25	Semi-supervised feature learning for improving writer identification. <i>Information Sciences</i> , 2019, 482, 156-170.	4.0	38
26	THP: A Novel Authentication Scheme to Prevent Multiple Attacks in SDN-Based IoT Network. <i>IEEE Internet of Things Journal</i> , 2020, 7, 5745-5759.	5.5	37
27	Exploring resting-state EEG complexity before migraine attacks. <i>Cephalalgia</i> , 2018, 38, 1296-1306.	1.8	36
28	A review of artificial intelligence for EEG-based brain-computer interfaces and applications. <i>Brain Science Advances</i> , 2020, 6, 162-170.	0.3	34
29	A Reinforcement Learning-Based Vehicle Platoon Control Strategy for Reducing Energy Consumption in Traffic Oscillations. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 5309-5322.	7.2	33
30	EEG-Based Brain-Computer Interfaces: A Novel Neurotechnology and Computational Intelligence Method. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2017, 3, 16-26.	1.2	31
31	A Practical Model Based on Anomaly Detection for Protecting Medical IoT Control Services Against External Attacks. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 4260-4269.	7.2	30
32	Ultrashort Echo Time (UTE) imaging of receptor targeted magnetic iron oxide nanoparticles in mouse tumor models. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 1071-1081.	1.9	29
33	A multi-objective adaptive evolutionary algorithm to extract communities in networks. <i>Swarm and Evolutionary Computation</i> , 2020, 52, 100629.	4.5	28
34	Theranostic Nanoparticles Carrying Doxorubicin Attenuate Targeting Ligand Specific Antibody Responses Following Systemic Delivery. <i>Theranostics</i> , 2015, 5, 43-61.	4.6	26
35	Brain variability in dynamic resting-state networks identified by fuzzy entropy: a scalp EEG study. <i>Journal of Neural Engineering</i> , 2021, 18, 046097.	1.8	23
36	Privacy Protection for Medical Data Sharing in Smart Healthcare. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2020, 16, 1-18.	3.0	22

#	ARTICLE	IF	CITATIONS
37	Effective Brain State Estimation During Propofol-Induced Sedation Using Advanced EEG Microstate Spectral Analysis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 978-987.	3.9	21
38	Enhancing Transferability of Deep Reinforcement Learning-Based Variable Speed Limit Control Using Transfer Learning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 4684-4695.	4.7	21
39	Random Forest with Self-Paced Bootstrap Learning in Lung Cancer Prognosis. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2020, 16, 1-12.	3.0	21
40	A New Distance for Intuitionistic Fuzzy Sets Based on Similarity Matrix. <i>IEEE Access</i> , 2019, 7, 70436-70446.	2.6	20
41	Graph representation learning with encoding edges. <i>Neurocomputing</i> , 2019, 361, 29-39.	3.5	19
42	A Decision Method for Online Purchases Considering Dynamic Information Preference Based on Sentiment Orientation Classification and Discrete DIFWA Operators. <i>IEEE Access</i> , 2019, 7, 77008-77026.	2.6	19
43	Q-rung Orthopair Normal Fuzzy Aggregation Operators and Their Application in Multi-Attribute Decision-Making. <i>Mathematics</i> , 2019, 7, 1142.	1.1	19
44	Weak Human Preference Supervision for Deep Reinforcement Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 5369-5378.	7.2	19
45	A Generalized Deep Neural Network Approach for Digital Watermarking Analysis. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2022, 6, 613-627.	3.4	19
46	Privacy-preserving Time-series Medical Images Analysis Using a Hybrid Deep Learning Framework. <i>ACM Transactions on Internet Technology</i> , 2021, 21, 1-21.	3.0	19
47	A Long Short-Term Memory Network for Sparse Spatiotemporal EEG Source Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3787-3800.	5.4	18
48	Parallel Community Detection Based on Distance Dynamics for Large-Scale Network. <i>IEEE Access</i> , 2018, 6, 42775-42789.	2.6	17
49	Peroxidasin contributes to lung host defense by direct binding and killing of gram-negative bacteria. <i>PLoS Pathogens</i> , 2018, 14, e1007026.	2.1	16
50	CDE-GAN: Cooperative Dual Evolution-Based Generative Adversarial Network. <i>IEEE Transactions on Evolutionary Computation</i> , 2021, 25, 986-1000.	7.5	16
51	Large expert-curated database for benchmarking document similarity detection in biomedical literature search. <i>Database: the Journal of Biological Databases and Curation</i> , 2019, 2019, .	1.4	15
52	A generalized belief interval-valued soft set with applications in decision making. <i>Soft Computing</i> , 2020, 24, 9339-9350.	2.1	12
53	A Generalized Golden Rule Representative Value for Multiple-Criteria Decision Analysis. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 3193-3204.	5.9	12
54	Interpretable Fuzzy Logic Control for Multirobot Coordination in a Cluttered Environment. <i>IEEE Transactions on Fuzzy Systems</i> , 2021, 29, 3676-3685.	6.5	12

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55	Descriptor Selection Improvements for Quantitative Structure-Activity Relationships. International Journal of Neural Systems, 2019, 29, 1950016.	3.2	11
56	Reconfiguration of Brain Network Between Resting State and P300 Task. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 383-390.	2.6	11
57	Identification of EEG Dynamics During Freezing of Gait and Voluntary Stopping in Patients With Parkinson's Disease. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1774-1783.	2.7	11
58	Classifying Multi-Level Stress Responses From Brain Cortical EEG in Nurses and Non-Health Professionals Using Machine Learning Auto Encoder. IEEE Journal of Translational Engineering in Health and Medicine, 2021, 9, 1-9.	2.2	11
59	Classification of migraine stages based on resting-state EEG power. , 2015, , .		10
60	Local Expansion and Optimization for Higher-Order Graph Clustering. IEEE Internet of Things Journal, 2019, 6, 8702-8713.	5.5	10
61	A Semantic Collaboration Method Based on Uniform Knowledge Graph. IEEE Internet of Things Journal, 2020, 7, 4473-4484.	5.5	10
62	VPO1 mediates oxidation of LDL and formation of foam cells. Oncotarget, 2016, 7, 35500-35511.	0.8	10
63	Estimation of SSVEP-based EEG complexity using inherent fuzzy entropy. , 2017, , .		8
64	A Community Merger of Optimization Algorithm to Extract Overlapping Communities in Networks. IEEE Access, 2019, 7, 3994-4005.	2.6	8
65	Enhancing Network Embedding with Implicit Clustering. Lecture Notes in Computer Science, 2019, , 452-467.	1.0	6
66	Jam-Absorption Driving Strategy for Improving Safety Near Oscillations in a Connected Vehicle Environment Considering Consequential Jams. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 41-52.	2.6	6
67	The Impact of Vigorous Cycling Exercise on Visual Attention: A Study With the BR8 Wireless Dry EEG System. Frontiers in Neuroscience, 2021, 15, 621365.	1.4	6
68	HandiText. ACM/IMS Transactions on Data Science, 2020, 1, 1-18.	2.1	6
69	Identification of the General Anesthesia Induced Loss of Consciousness by Cross Fuzzy Entropy-Based Brain Network. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 2281-2291.	2.7	6
70	Optimizing streaming graph partitioning via a heuristic greedy method and caching strategy. Optimization Methods and Software, 2020, 35, 1144-1159.	1.6	5
71	M2SPL: Generative multiview features with adaptive meta-self-paced sampling for class-imbalance learning. Expert Systems With Applications, 2022, 189, 115999.	4.4	5
72	An Evoked Potential-Guided Deep Learning Brain Representation for Visual Classification. Communications in Computer and Information Science, 2020, , 54-61.	0.4	5

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73	A Modified Distance Dynamics Model for Improvement of Community Detection. IEEE Access, 2018, 6, 63934-63947.	2.6	4
74	Guest Editorial: Fuzzy Systems Toward Human-Explainable Artificial Intelligence and Their Applications. IEEE Transactions on Fuzzy Systems, 2021, 29, 3577-3578.	6.5	4
75	L1-norm based time-varying brain neural network and its application to dynamic analysis for motor imagery. Journal of Neural Engineering, 2022, 19, 026019.	1.8	4
76	An Effective Reliability Evaluation Method for Power Communication Network Based on Community Structure. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	3
77	Reinforcement Learning From Hierarchical Critics. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 1066-1073.	7.2	3
78	Marine Vertebrate Predator Detection and Recognition in Underwater Videos by Region Convolutional Neural Network. Lecture Notes in Computer Science, 2019, , 66-80.	1.0	3
79	A Multimodel Fusion Engine for Filtering Webpages. IEEE Access, 2018, 6, 66062-66071.	2.6	2
80	Distributed Semisupervised Fuzzy Regression With Interpolation Consistency Regularization. IEEE Transactions on Fuzzy Systems, 2022, 30, 3125-3137.	6.5	2
81	Tensor Decomposition for EEG Signals Retrieval. , 2019, , .		1
82	IEEE Access Special Section Editorial: Neural Engineering Informatics. IEEE Access, 2020, 8, 201696-201699.	2.6	0
83	Guest Editorial Special Issue on Emerging Computational Intelligence Techniques for Decision Making With Big Data in Uncertain Environments. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 2-5.	3.4	0
84	Editorial on Special Issue: "Applications of Intelligent and Fuzzy Theory in Data Science". International Journal of Fuzzy Systems, 2021, 23, 492-493.	2.3	0
85	An EEG Majority Vote Based BCI Classification System for Discrimination of Hand Motor Attempts in Stroke Patients. Communications in Computer and Information Science, 2020, , 46-53.	0.4	0
86	Adaptive Subspace Sampling for Class Imbalance Processing-Some clarifications, algorithm, and further investigation including applications to Brain Computer Interface. , 2020, , .		0