

Yanchun Zhang

List of Publications by Year in descending order

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157
papers

4,053
citations

106120

35
h-index

156116

55
g-index

165
all docs

165
docs citations

165
times ranked

4465
citing authors

#	ARTICLE	IF	CITATIONS
1	Epileptic seizure detection in EEG signals using tunable-Q factor wavelet transform and bootstrap aggregating. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 137, 247-259.	4.9	204
2	Weighted Visibility Graph With Complex Network Features in the Detection of Epilepsy. <i>IEEE Access</i> , 2016, 4, 6554-6566.	4.4	164
3	Medical Big Data: Neurological Diseases Diagnosis Through Medical Data Analysis. <i>Data Science and Engineering</i> , 2016, 1, 54-64.	6.8	152
4	A Computerized Method for Automatic Detection of Schizophrenia Using EEG Signals. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2390-2400.	5.0	133
5	Accuracy of the clinical examination to predict radiographic instability of the lumbar spine. <i>European Spine Journal</i> , 2005, 14, 743-750.	2.3	118
6	A flexible payment scheme and its role-based access control. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2005, 17, 425-436.	6.2	109
7	Shilling attack detection utilizing semi-supervised learning method for collaborative recommender system. <i>World Wide Web</i> , 2013, 16, 729-748.	3.9	104
8	A New Framework for Automatic Detection of Patients With Mild Cognitive Impairment Using Resting-State EEG Signals. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 1966-1976.	5.0	93
9	Automatic Detection of Diabetic Eye Disease Through Deep Learning Using Fundus Images: A Survey. <i>IEEE Access</i> , 2020, 8, 151133-151149.	4.4	91
10	Privacy-aware access control with trust management in web service. <i>World Wide Web</i> , 2011, 14, 407-430.	3.9	85
11	Supervised Anomaly Detection in Uncertain Pseudoperiodic Data Streams. <i>ACM Transactions on Internet Technology</i> , 2016, 16, 1-20.	4.6	77
12	Epileptic seizure detection from EEG signals using logistic model trees. <i>Brain Informatics</i> , 2016, 3, 93-100.	3.1	76
13	Automated epilepsy detection techniques from electroencephalogram signals: a review study. <i>Health Information Science and Systems</i> , 2020, 8, 33.	5.5	71
14	Effectively finding relevant web pages from linkage information. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2003, 15, 940-951.	6.2	66
15	A framework for cardiac arrhythmia detection from IoT-based ECGs. <i>World Wide Web</i> , 2020, 23, 2835-2850.	3.9	66
16	Image Preprocessing in Classification and Identification of Diabetic Eye Diseases. <i>Data Science and Engineering</i> , 2021, 6, 455-471.	6.8	60
17	Exploring Hermite transformation in brain signal analysis for the detection of epileptic seizure. <i>IET Science, Measurement and Technology</i> , 2019, 13, 35-41.	1.6	59
18	Discriminative Nonnegative Spectral Clustering with Out-of-Sample Extension. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2013, 25, 1760-1771.	6.2	57

#	ARTICLE	IF	CITATIONS
19	Multi-category EEG signal classification developing time-frequency texture features based Fisher Vector encoding method. <i>Neurocomputing</i> , 2016, 218, 251-258.	6.2	56
20	Exploring Sampling in the Detection of Multicategory EEG Signals. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-12.	1.4	54
21	Deep Learning With Radiomics for Disease Diagnosis and Treatment: Challenges and Potential. <i>Frontiers in Oncology</i> , 2022, 12, 773840.	2.9	54
22	Effective Collaboration with Information Sharing in Virtual Universities. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2009, 21, 840-853.	6.2	52
23	An overview of content-based image retrieval techniques. , 0, , .		50
24	Accurate Image Analysis of the Retina Using Hessian Matrix and Binarisation of Thresholded Entropy with Application of Texture Mapping. <i>PLoS ONE</i> , 2014, 9, e95943.	2.5	50
25	An Efficient Ant Colony System Approach for New Energy Vehicle Dispatch Problem. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020, 21, 4784-4797.	8.4	50
26	Distributed Memetic Algorithm for Outsourced Database Fragmentation. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 4808-4821.	10.1	50
27	Satisfying Privacy Requirements Before Data Anonymization. <i>Computer Journal</i> , 2012, 55, 422-437.	2.3	48
28	Dynamic Connection-Based Social Group Recommendation. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020, 32, 453-467.	6.2	48
29	AdaBoost algorithm with random forests for predicting breast cancer survivability. , 2008, , .		44
30	Risk Factors for Complications of Endoscopic Sinus Surgery for Chronic Rhinosinusitis. <i>American Journal of Rhinology and Allergy</i> , 2012, 26, 61-64.	2.1	44
31	EEG Sleep Stages Analysis and Classification Based on Weighed Complex Network Features. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021, 5, 236-246.	5.3	44
32	Achieving secure and flexible M-services through tickets. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2003, 33, 697-708.	3.2	43
33	Cloud Service Description Model: An Extension of USDL for Cloud Services. <i>IEEE Transactions on Services Computing</i> , 2018, 11, 354-368.	5.1	43
34	A PCA aided cross-covariance scheme for discriminative feature extraction from EEG signals. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 146, 47-57.	4.9	41
35	Epilepsy Detection From EEG Using Complex Network Techniques: A Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2023, 16, 292-306.	18.2	37
36	A Comprehensive Survey on Multi-View Clustering. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2023, 35, 12350-12368.	6.2	37

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37	Domain-Driven Classification Based on Multiple Criteria and Multiple Constraint-Level Programming for Intelligent Credit Scoring. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 826-838.	6.2	35
38	Classification of COVID-19 pneumonia from chest CT images based on reconstructed super-resolution images and VGG neural network. Health Information Science and Systems, 2021, 9, 10.	5.5	35
39	MDDE: multitasking distributed differential evolution for privacy-preserving database fragmentation. VLDB Journal, 2022, 31, 957-975.	4.2	35
40	Classification of THz pulse signals using two-dimensional cross-correlation feature extraction and non-linear classifiers. Computer Methods and Programs in Biomedicine, 2016, 127, 64-82.	4.9	33
41	Modelling User Behaviour for Web Recommendation Using LDA Model. , 2008, , .		32
42	Automatic CIN Grades Prediction of Sequential Cervigram Image Using LSTM With Multistate CNN Features. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 844-854.	6.9	32
43	Anomaly Detection in Quasi-Periodic Time Series Based on Automatic Data Segmentation and Attentional LSTM-CNN. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 2626-2640.	6.2	32
44	Pyramid U-Net for Retinal Vessel Segmentation. , 2021, , .		31
45	Meta-Transfer Metric Learning for Time Series Classification in 6G-Supported Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2024, 25, 2757-2767.	8.4	31
46	Web Services Discovery Based on Latent Semantic Approach. , 2008, , .		30
47	On Secure Wireless Communications for Service Oriented Computing. IEEE Transactions on Services Computing, 2018, 11, 318-328.	5.1	29
48	l-cysteine-modified chiral gold nanoparticles promote periodontal tissue regeneration. Bioactive Materials, 2021, 6, 3288-3299.	16.1	29
49	An Advanced Analysis System for Identifying Alcoholic Brain State Through EEG Signals. International Journal of Automation and Computing, 2019, 16, 737-747.	4.7	28
50	An efficient approach to suggesting topically related web queries using hidden topic model. World Wide Web, 2013, 16, 273-297.	3.9	27
51	An Efficient Method for High Quality and Cohesive Topical Phrase Mining. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 120-137.	6.2	27
52	An Attention-based Hybrid LSTM-CNN Model for Arrhythmias Classification. , 2019, , .		27
53	A Biomedical Perspective in Terahertz Nano-Communicationsâ€”A Review. IEEE Sensors Journal, 2022, 22, 9215-9227.	4.8	25
54	Unobtrusive Mattress-Based Identification of Hypertension by Integrating Classification and Association Rule Mining. Sensors, 2019, 19, 1489.	4.0	23

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55	RANK promotes colorectal cancer migration and invasion by activating the Ca ²⁺ -calcineurin/NFATC1-ACP5 axis. <i>Cell Death and Disease</i> , 2021, 12, 336.	6.4	22
56	Motif-based embedding label propagation algorithm for community detection. <i>International Journal of Intelligent Systems</i> , 2022, 37, 1880-1902.	5.8	22
57	Exploring Douglas-Peucker Algorithm in the Detection of Epileptic Seizure from Multicategory EEG Signals. <i>BioMed Research International</i> , 2019, 2019, 1-19.	2.0	21
58	Cluster Analysis and Optimization in Color-Based Clustering for Image Abstract. , 2007, , .		20
59	Online mining abnormal period patterns from multiple medical sensor data streams. <i>World Wide Web</i> , 2014, 17, 569-587.	3.9	19
60	Pattern identification of biomedical images with time series: Contrasting THz pulse imaging with DCE-MRIs. <i>Artificial Intelligence in Medicine</i> , 2016, 67, 1-23.	6.7	19
61	Bayesian Sparse Topical Coding. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2019, 31, 1080-1093.	6.2	19
62	A LSTM and CNN Based Assemble Neural Network Framework for Arrhythmias Classification. , 2019, , .		18
63	Mining streams of short text for analysis of world-wide event evolutions. <i>World Wide Web</i> , 2015, 18, 1201-1217.	3.9	17
64	Analyzing EEG Signal Data for Detection of Epileptic Seizure: Introducing Weight on Visibility Graph with Complex Network Feature. <i>Lecture Notes in Computer Science</i> , 2016, , 56-66.	1.0	17
65	Knowledge transfer-based distributed differential evolution for dynamic database fragmentation. <i>Knowledge-Based Systems</i> , 2021, 229, 107325.	7.4	17
66	Preserving patient-centred controls in electronic health record systems: A reliance-based model implication. , 2017, , .		16
67	Evolutionary Dynamic Database Partitioning Optimization for Privacy and Utility. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2024, 21, 2296-2311.	6.0	16
68	New feature extraction for automated detection of epileptic seizure using complex network framework. <i>Applied Acoustics</i> , 2021, 180, 108098.	3.4	15
69	An Advanced Two-Step DNN-Based Framework for Arrhythmia Detection. <i>Lecture Notes in Computer Science</i> , 2020, , 422-434.	1.0	15
70	Automatically Building Service-Based Systems With Function Relaxation. <i>IEEE Transactions on Cybernetics</i> , 2023, 53, 2703-2716.	10.1	15
71	Delegating revocations and authorizations in collaborative business environments. <i>Information Systems Frontiers</i> , 2009, 11, 293-305.	6.7	14
72	Enhancing Time Series Clustering by Incorporating Multiple Distance Measures with Semi-Supervised Learning. <i>Journal of Computer Science and Technology</i> , 2015, 30, 859-873.	1.5	14

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73	Exploiting feature fusion and long-term context dependencies for simultaneous ECG heartbeat segmentation and classification. <i>International Journal of Data Science and Analytics</i> , 2021, 11, 181-193.	4.4	14
74	A Global Ticket-Based Access Scheme for Mobile Users. <i>Information Systems Frontiers</i> , 2004, 6, 35-46.	6.7	13
75	A Personalized Recommendation Algorithm Based on Approximating the Singular Value Decomposition (ApproSVD). , 2012, , .		13
76	Distributed Cooperative Coevolution of Data Publishing Privacy and Transparency. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2024, 18, 1-23.	3.7	13
77	Fault Tolerance in Data Gathering Wireless Sensor Networks. <i>Computer Journal</i> , 2011, 54, 976-987.	2.3	12
78	Welcome to Health Information Science and Systems. <i>Health Information Science and Systems</i> , 2013, 1, 1.	5.5	12
79	A method of VR-EEG scene cognitive rehabilitation training. <i>Health Information Science and Systems</i> , 2021, 9, 4.	5.5	12
80	MCnet: Multiscale visible image and infrared image fusion network. <i>Signal Processing</i> , 2023, 208, 108996.	3.9	12
81	Set-Based Adaptive Distributed Differential Evolution for Anonymity-Driven Database Fragmentation. <i>Data Science and Engineering</i> , 2021, 6, 380-391.	6.8	11
82	Classification of cerebral palsy gait by Kernel Fisher Discriminant Analysis. <i>International Journal of Hybrid Intelligent Systems</i> , 2008, 5, 209-218.	1.5	10
83	Self-Organizing Map Methodology and Google Maps Services for Geographical Epidemiology Mapping. , 2009, , .		10
84	THCluster: Herb supplements categorization for precision traditional Chinese medicine. , 2017, , .		9
85	Event Popularity Prediction Using Influential Hashtags From Social Media. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2022, 34, 4797-4811.	6.2	9
86	A New Data Mining Scheme for Analysis of Big Brain Signal Data. <i>Lecture Notes in Computer Science</i> , 2017, , 151-164.	1.0	9
87	Lateral transmission of natural scrapie to scrapie-free New Zealand sheep placed in an endemically infected UK flock. <i>Veterinary Record</i> , 2006, 159, 633-634.	0.3	8
88	Refining Adverse Drug Reactions Using Association Rule Mining for Electronic Healthcare Data. , 2014, , .		8
89	A general model for fuzzy decision tree and fuzzy random forest. <i>Computational Intelligence</i> , 2019, 35, 310-335.	3.1	8
90	Deep Learning for Multi-Class Antisocial Behavior Identification From Twitter. <i>IEEE Access</i> , 2020, 8, 194027-194044.	4.4	8

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91	Class-Driven Graph Attention Network for Multi-Label Time Series Classification in Mobile Health Digital Twins. <i>IEEE Journal on Selected Areas in Communications</i> , 2023, 41, 3267-3278.	15.9	8
92	CIRCE: Correcting Imprecise Readings and Compressing Excrescent points for querying common patterns in uncertain sensor streams. <i>Information Systems</i> , 2013, 38, 1234-1251.	3.9	7
93	A fast and robust face recognition approach combining Gabor learned dictionaries and collaborative representation. <i>International Journal of Machine Learning and Cybernetics</i> , 2016, 7, 47-52.	3.7	7
94	Heterogeneous information network based clustering for precision traditional Chinese medicine. <i>BMC Medical Informatics and Decision Making</i> , 2019, 19, 264.	3.1	7
95	Adversarial Heterogeneous Network Embedding with Metapath Attention Mechanism. <i>Journal of Computer Science and Technology</i> , 2019, 34, 1217-1229.	1.5	7
96	Radiomics under 2D regions, 3D regions, and peritumoral regions reveal tumor heterogeneity in non-small cell lung cancer: a multicenter study. <i>Radiologia Medica</i> , 2023, 128, 1079-1092.	7.9	7
97	Development of Web-Based Epidemiological Reporting System for Tasmania Utilizing a Google Maps Add-On. , 2007, , .		6
98	A Pairwise-Systematic Microaggregation for Statistical Disclosure Control. , 2010, , .		6
99	Multi-level delegations with trust management in access control systems. <i>Journal of Intelligent Information Systems</i> , 2012, 39, 611-626.	4.1	6
100	Collaborative medical diagnosis through Fuzzy Petri Net based agent argumentation. , 2014, , .		6
101	Hypothermia Evidence, Afterdrop, and Guidelines. <i>Wilderness and Environmental Medicine</i> , 2015, 26, 439-441.	0.9	6
102	HGeoHashBase: an optimized storage model of spatial objects for location-based services. <i>Frontiers of Computer Science</i> , 2020, 14, 208-218.	2.5	6
103	Collaborative Peer-to-Peer Service for Information Sharing Using JXTA. , 2006, , .		5
104	Access Control for Human Tasks in Service Oriented Architecture. , 2008, , .		5
105	Scalable approximating SVD algorithm for recommender systems. <i>Web Intelligence and Agent Systems</i> , 2014, 12, 359-373.	0.3	5
106	Improving adversarial robustness of medical imaging systems via adding global attention noise. <i>Computers in Biology and Medicine</i> , 2023, 164, 107251.	7.3	5
107	Collaborative Legal Information Sharing on P2P Network. , 2007, , .		4
108	Network Lifetime of Application-Specific Randomly Deployed Wireless Sensor Networks in Arbitrary Sensor Density. , 2007, , .		4

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109	Wireless Sensor Networks for Heritage Object Deformation Detection and Tracking Algorithm. Sensors, 2014, 14, 20562-20588.	4.0	4
110	A Data as a Product Model for Future Consumption of Big Stream Data in Clouds. , 2015, , .		4
111	Identification of Hypertension by Mining Class Association Rules from Multi-dimensional Features. , 2018, , .		4
112	Increased Legumain/Smad3 expression in atherosclerotic plaque of rat thoracic aorta. Biomedicine and Pharmacotherapy, 2019, 119, 109353.	5.8	4
113	Enhancing text classification using synopses extraction. , 0, , .		3
114	Using Probabilistic Latent Semantic Analysis for Web Page Grouping. , 0, , .		3
115	Secure Electronic Voting for Mobile Communications. , 0, , .		3
116	Scenario-Based Petri Net Approach for Collaborative Business Process Modelling. , 2007, , .		3
117	On web communities mining and recommendation. Concurrency Computation Practice and Experience, 2009, 21, 561-582.	2.2	3
118	Friendship-based cooperative jamming for secure communication in Poisson networks. Wireless Networks, 2019, 25, 4077-4095.	3.1	3
119	A Segmentation Method of Lung Parenchyma From Chest CT Images Based on Dual U-Net. , 2019, , .		3
120	Kernelized Multitask Learning Method for Personalized Signaling Adverse Drug Reactions. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	6.2	3
121	ENHANCING THE PERFORMANCE OF LOCAL BINARY PATTERNS FOR FACE RECOGNITION BY SPECTRAL REGRESSION. , 2011, , 107-127.		3
122	Simultaneous ECG Heartbeat Segmentation and Classification with Feature Fusion and Long Term Context Dependencies. Lecture Notes in Computer Science, 2020, , 371-383.	1.0	3
123	The effects of travel containment measures within COVID-19. , 2020, , .		3
124	Design and implementation of digital right management in a collaborative peer-to-peer network. , 2007, , .		2
125	Survivability of Information System. , 0, , .		1
126	A novel time computation model based on algorithm complexity for data intensive scientific workflow design and scheduling. Concurrency Computation Practice and Experience, 2009, 21, 2070-2083.	2.2	1

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127	Clustering analysis and its applications. , 2010, , .		1
128	A Review of Intelligent Image Processing Method of Pulmonary CT Images. , 2019, , .		1
129	Time Series Based Data Explorer and Stream Analysis for Anomaly Prediction. Wireless Communications and Mobile Computing, 2022, 2022, 1-13.	1.4	1
130	Anti-epileptic drugs and prostate cancer-specific mortality compared to non-users of anti-epileptic drugs in the Finnish Randomized Study of Screening for Prostate Cancer. British Journal of Cancer, 2022, , .	6.6	1
131	Complex Event Summarization Using Multi-Social Attribute Correlation. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 11180-11195.	6.2	1
132	Collaborative Business Transactions Management: Issues and Challenges. , 2005, , .		0
133	Collaborative business transactions management: issues and challenges. , 2005, , .		0
134	Gait Classificaiton in Children with Cerebral Palsy by Bayesian Approach. , 2007, , .		0
135	On Web Communities Mining and Analysis. , 2007, , .		0
136	Efficient Management of Semi-Persistent Data for the Evolving Web. , 2008, , .		0
137	Identifying Causal Effects from Data for the Clinical Ventilation Process Modelling. , 2008, , .		0
138	Engineering Issues for the Web 2.0. World Wide Web, 2010, 13, 211-213.	3.9	0
139	WRITER IDENTIFICATION WITH HYBRID EDGE DIRECTIONAL FEATURES AND NONLINEAR DIMENSION REDUCTION. , 2011, , 265-286.		0
140	Access Control Management for Ubiquitous Computing. , 2020, , 179-201.		0
141	Achieving Secure and Flexible M-Services Through Tickets. , 2020, , 67-89.		0
142	Secrecy transmission capacity in mobile ad hoc networks with security-aware Aloha protocol. IET Communications, 2020, 14, 4135-4141.	2.3	0
143	Distributed Access Control Through Blockchain Technology. , 2020, , 283-297.		0
144	Role-Based Delegation with Negative Authorization. , 2020, , 159-175.		0

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145	Effective Collaboration with Information Sharing in Virtual Universities. , 2020, , 249-281.		0
146	Efficient and Optimal Algorithms for Tree Summarization with Weighted Terminologies. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	6.2	0
147	Scenario-Based Petri Net Approach for Collaborative Business Process Modelling. , 2007, , .		0
148	Collaborative Legal Information Sharing on P2P Network. , 2007, , .		0
149	Design and Implementation of Digital Right Management in a Collaborative Peer-To-Peer Network. , 2007, , .		0
150	Analyzing the Impact of COVID-19 on Education: A Comparative Study Based on TOEFL Test Results. Lecture Notes in Computer Science, 2023, , 175-184.	1.0	0
151	Role of diffusion-weighted imaging in response prediction and evaluation after high dose rate brachytherapy in patients with colorectal liver metastases. Radiology and Oncology, 2024, 58, 33-42.	1.7	0
152	A Multitask Dynamic Graph Attention Autoencoder for Imbalanced Multilabel Time Series Classification. IEEE Transactions on Neural Networks and Learning Systems, 2024, , 1-14.	12.6	0
153	A Study on Historical Behaviour Enabled Insider Threat Prediction. Lecture Notes in Computer Science, 2024, , 464-476.	1.0	0
154	A Compact Vulnerability Knowledge Graph for Risk Assessment. ACM Transactions on Knowledge Discovery From Data, 0, , .	3.7	0
155	Federated Genetic Algorithm: Two-Layer Privacy-Preserving Trajectory Data Publishing. , 2024, , .		0
156	Enhancing Transferability of Adversarial Examples through Mixed-Frequency Inputs. IEEE Transactions on Information Forensics and Security, 2024, , 1-1.	7.3	0
157	Constrained multi-scale dense connections for biomedical image segmentation. Pattern Recognition, 0, 158, 111031.	8.5	0