Ke Yan

List of Publications by Year
in descending order

98 papers	3,069 citations	172386 29 h-index	168321 53 g-index
101 all docs	101 docs citations	101 times ranked	2262 citing authors

#	Article	IF	Citations
1	A hybrid feature selection algorithm for gene expression data classification. Neurocomputing, 2017, 256, 56-62.	3.5	263
2	Short-Term Photovoltaic Power Forecasting Based on Long Short Term Memory Neural Network and Attention Mechanism. IEEE Access, 2019, 7, 78063-78074.	2.6	240
3	A Hybrid LSTM Neural Network for Energy Consumption Forecasting of Individual Households. IEEE Access, 2019, 7, 157633-157642.	2.6	136
4	ARX model based fault detection and diagnosis for chillers using support vector machines. Energy and Buildings, 2014, 81, 287-295.	3.1	124
5	Multi-Step Short-Term Power Consumption Forecasting with a Hybrid Deep Learning Strategy. Energies, 2018, 11, 3089.	1.6	124
6	Semi-supervised learning for early detection and diagnosis of various air handling unit faults. Energy and Buildings, 2018, 181, 75-83.	3.1	112
7	Generative adversarial network for fault detection diagnosis of chillers. Building and Environment, 2020, 172, 106698.	3.0	107
8	Online fault detection methods for chillers combining extended kalman filter and recursive one-class SVM. Neurocomputing, 2017, 228, 205-212.	3.5	105
9	Robust model-based fault diagnosis for air handling units. Energy and Buildings, 2015, 86, 698-707.	3.1	103
10	Unsupervised learning for fault detection and diagnosis of air handling units. Energy and Buildings, 2020, 210, 109689.	3.1	103
11	Cost-sensitive and sequential feature selection for chiller fault detection and diagnosis. International Journal of Refrigeration, 2018, 86, 401-409.	1.8	100
12	Multi-Task Learning Model Based on Multi-Scale CNN and LSTM for Sentiment Classification. IEEE Access, 2020, 8, 77060-77072.	2.6	79
13	Fast and Accurate Classification of Time Series Data Using Extended ELM: Application in Fault Diagnosis of Air Handling Units. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1349-1356.	5.9	77
14	Highly accurate energy consumption forecasting model based on parallel LSTM neural networks. Advanced Engineering Informatics, 2022, 51, 101442.	4.0	66
15	A cost-sensitive rotation forest algorithm for gene expression data classification. Neurocomputing, 2017, 228, 270-276.	3.5	64
16	Mathematical and Computational Modeling in Complex Biological Systems. BioMed Research International, 2017, 2017, 1-16.	0.9	64
17	Chiller fault detection and diagnosis with anomaly detective generative adversarial network. Building and Environment, 2021, 201, 107982.	3.0	61
18	Detecting Anomalies in Time Series Data via a Meta-Feature Based Approach. IEEE Access, 2018, 6, 27760-27776.	2.6	60

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19	MPPT Perturbation Optimization of Photovoltaic Power Systems Based on Solar Irradiance Data Classification. IEEE Transactions on Sustainable Energy, 2019, 10, 514-521.	5.9	59
20	A hybrid deep learning technology for PM2.5 air quality forecasting. Environmental Science and Pollution Research, 2021, 28, 39409-39422.	2.7	58
21	Multivariate Air Quality Forecasting With Nested Long Short Term Memory Neural Network. IEEE Transactions on Industrial Informatics, 2021, 17, 8514-8522.	7.2	57
22	Short-Term Solar Irradiance Forecasting Based on a Hybrid Deep Learning Methodology. Information (Switzerland), 2020, 11, 32.	1.7	51
23	Energy Efficiency Solutions for Buildings: Automated Fault Diagnosis of Air Handling Units Using Generative Adversarial Networks. Energies, 2019, 12, 527.	1.6	47
24	Chiller Fault Diagnosis Based on VAE-Enabled Generative Adversarial Networks. IEEE Transactions on Automation Science and Engineering, 2022, 19, 387-395.	3.4	47
25	Designing Localized MPPT for PV Systems Using Fuzzy-Weighted Extreme Learning Machine. Energies, 2018, 11, 2615.	1.6	42
26	Gait recognition based on Gabor wavelets and (2D)2PCA. Multimedia Tools and Applications, 2018, 77, 12545-12561.	2.6	35
27	Modern Machine Learning Techniques for Univariate Tunnel Settlement Forecasting: A Comparative Study. Mathematical Problems in Engineering, 2019, 2019, 1-12.	0.6	35
28	A novel computational approach for discord search with local recurrence rates in multivariate time series. Information Sciences, 2019, 477, 220-233.	4.0	35
29	Power ramp-rates of utility-scale PV systems under passing clouds: Module-level emulation with cloud shadow modeling. Applied Energy, 2020, 268, 114980.	5.1	33
30	Tunnel Surface Settlement Forecasting with Ensemble Learning. Sustainability, 2020, 12, 232.	1.6	30
31	Chiller faults detection and diagnosis with sensor network and adaptive 1D CNN. Digital Communications and Networks, 2022, 8, 531-539.	2.7	30
32	Collaborative deep learning framework on IoT data with bidirectional NLSTM neural networks for energy consumption forecasting. Journal of Parallel and Distributed Computing, 2022, 163, 248-255.	2.7	29
33	Guest Editorial: AI and Machine Learning Solution Cyber Intelligence Technologies: New Methodologies and Applications. IEEE Transactions on Industrial Informatics, 2020, 16, 6626-6631.	7.2	27
34	Comparison of models for predicting winter individual thermal comfort based on machine learning algorithms. Building and Environment, 2022, 215, 108970.	3.0	27
35	Kernel principal component analysis combining rotation forest method for linearly inseparable data. Cognitive Systems Research, 2019, 53, 111-122.	1.9	25
36	Emerging Privacy Issues and Solutions in Cyber-Enabled Sharing Services: From Multiple Perspectives. IEEE Access, 2019, 7, 26031-26059.	2.6	24

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37	Applying Cost-Sensitive Extreme Learning Machine and Dissimilarity Integration to Gene Expression Data Classification. Computational Intelligence and Neuroscience, 2016, 2016, 1-9.	1.1	23
38	Deep Learning Enhanced Solar Energy Forecasting with AI-Driven IoT. Wireless Communications and Mobile Computing, 2021, 2021, 1-11.	0.8	23
39	Enhancing Interpretability of Data-Driven Fault Detection and Diagnosis Methodology with Maintainability Rules in Smart Building Management. Journal of Sensors, 2022, 2022, 1-48.	0.6	19
40	Hand gesture recognition based on concentric circular scan lines and weighted K-nearest neighbor algorithm. Multimedia Tools and Applications, 2018, 77, 209-223.	2.6	17
41	Immersive human–computer interactive virtual environment using large-scale display system. Future Generation Computer Systems, 2019, 96, 649-659.	4.9	17
42	Learning misclassification costs for imbalanced classification on gene expression data. BMC Bioinformatics, 2019, 20, 681.	1.2	16
43	Intelligent maintenance frameworks of large-scale grid using genetic algorithm and K-Mediods clustering methods. World Wide Web, 2020, 23, 1177-1195.	2.7	15
44	Virtual Reality Therapy and Machine Learning Techniques in Drug Addiction Treatment. , 2019, , .		14
45	Deep Learning Neural Network Model for Tunnel Ground Surface Settlement Prediction Based on Sensor Data. Mathematical Problems in Engineering, 2021, 2021, 1-14.	0.6	14
46	Multi-Task Learning for Sentiment Analysis with Hard-Sharing and Task Recognition Mechanisms. Information (Switzerland), 2021, 12, 207.	1.7	13
47	Gait classification through CNN-based ensemble learning. Multimedia Tools and Applications, 2021, 80, 1565-1581.	2.6	12
48	Breast Cancer Histopathological Image Classification using Deep Learning. , 2019, , .		11
49	Data-Driven Intelligent Maintenance Planning of Smart Meter Reparations for Large-Scale Smart Electric Power Grid. , 2018, , .		10
50	Improved Mask R-CNN for Lung Nodule Segmentation. , 2019, , .		10
51	Deep Transfer Learning for Cross-Species Plant Disease Diagnosis Adapting Mixed Subdomains. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2023, 20, 2555-2564.	1.9	10
52	Multi–Variate Gaussian–Based Inverse Kinematics. Computer Graphics Forum, 2017, 36, 418-428.	1.8	9
53	Design and Simulation of Peer-to-Peer Energy Trading Framework with Dynamic Electricity Price. , 2019, , .		9
54	Constructing Knowledge Graph from Big Data of Smart Grids. , 2019, , .		9

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55	A linear programming computational framework integrates phosphor-proteomics and prior knowledge to predict drug efficacy. BMC Systems Biology, 2017, 11, 127.	3.0	8
56	A space-embedding strategy for anomaly detection in multivariate time series. Expert Systems With Applications, 2022, 206, 117892.	4.4	8
57	Molecular Skin Surface-Based Transformation Visualization between Biological Macromolecules. Journal of Healthcare Engineering, 2017, 2017, 1-12.	1.1	7
58	Accelerating smooth molecular surface calculation. Journal of Mathematical Biology, 2018, 76, 779-793.	0.8	7
59	Deep Learning Technology for Chiller Faults Diagnosis. , 2019, , .		7
60	Guest Editorial: Machine Learning for AI-Enhanced Healthcare and Medical Services: New Development and Promising Solution. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 850-851.	1.9	7
61	A distributed learning based sentiment analysis methods with Web applications. World Wide Web, 2022, 25, 1905-1922.	2.7	7
62	Automatic geometry calibration for multiâ€projector display systems with arbitrary continuous curved surfaces. IET Image Processing, 2019, 13, 1050-1055.	1.4	6
63	Forecasting Based Virtual Inertia Control of PV Systems for Islanded Micro-Grid. , 2019, , .		6
64	A Hybrid Ensemble Algorithm Combining AdaBoost and Genetic Algorithm for Cancer Classification with Gene Expression Data. , 2018, , .		5
65	Cross-Scene Feature Selection for Hyperspectral Images Based on Cross-Domain Information Gain. , 2018, , .		5
66	ChildGuard: A Child-Safety Monitoring System. IEEE MultiMedia, 2017, 24, 48-57.	1.5	4
67	DNN-Based Image Classification for Software GUI Testing. , 2018, , .		4
68	GPredicates: GPU Implementation of Robust and Adaptive Floating-Point Predicates for Computational Geometry. IEEE Access, 2019, 7, 60868-60876.	2.6	4
69	Children's Drawing Psychological Analysis using Shallow Convolutional Neural Network. , 2020, , .		4
70	Fault Detection and Diagnosis of Chillers with S&D Convolutional Neural Network. , 2020, , .		4
71	Short-term Solar Irradiation Prediction Model Based on WCNN_ALSTM. , 2021, , .		4
72	AI Empowered Virtual Reality Integrated Systems for Sleep Stage Classification and Quality Enhancement. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1494-1503.	2.7	4

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73	Potential Benefits for Residential Building with Photovoltaic Battery System Participation in Peer-to-Peer Energy Trading. Energies, 2022, 15, 3913.	1.6	4
74	Automatic color correction for multi-projector display systems. Multimedia Tools and Applications, 2018, 77, 13115-13132.	2.6	3
75	An Extended Genetic Algorithm Based Gene Selection Framework for Cancer Diagnosis. , 2018, , .		3
76	Representing implicit surfaces satisfying Lipschitz conditions by 4-dimensional point sets. Applied Mathematics and Computation, 2019, 354, 42-57.	1.4	2
77	Life Assistants for the Elderly Based on Mobile Devices. , 2019, , .		2
78	Classifying Non-linear Gene Expression Data Using a Novel Hybrid Rotation Forest Method. Lecture Notes in Computer Science, 2017, , 732-743.	1.0	2
79	Learning Misclassification Costs for Imbalanced Datasets, Application in Gene Expression Data Classification. Lecture Notes in Computer Science, 2018, , 513-519.	1.0	2
80	Evaluating Ensemble Learning Impact on Gene Selection for Automated Cancer Diagnosis. Studies in Computational Intelligence, 2020, , 183-186.	0.7	2
81	Improved Cascade R-CNN for Medical Images of Pulmonary Nodules Detection Combining Dilated HRNet. , 2020, , .		2
82	A deep learning model for PM2.5 concentration prediction. , 2021, , .		2
83	Multi-task sentiment classification model based on DistilBert and multi-scale CNN. , 2021, , .		2
84	Innovative Digital Twin Platform Construction for Smart Grid System. , 2021, , .		2
85	Construction of Open Teaching Platform Based on Cloud Computing for Computer Education. , 2016, , .		1
86	Hybrid Adaboost based on Genetic Algorithm for Gene Expression Data Classification. , 2017, , .		1
87	Intelligent Placement Model Based on Decision Tree. , 2018, , .		1
88	Vote Parallel SVM: An Extension of Parallel Support Vector Machine. , 2018, , .		1
89	On Simplifying Deformation of Smooth Manifolds Defined by Large Weighted Point Sets. Lecture Notes in Computer Science, 2013, , 150-161.	1.0	1
90	A Novel Anchorless Node Positioning Method for Wireless Sensor Network. Journal of Sensors, 2022, 2022, 1-10.	0.6	1

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91	Intelligent and Automated Fault Detection and Diagnosis Strategy for HVAC Systems Based on Maintainability Rules for Construction 4.0. , 2021, , .		1
92	A Method of Determining the Cost Weight with High-Dimensional Fitting. , 2017, , .		0
93	An Improved Tikhonov Method for Magnetic Induction Tomography. , 2018, , .		0
94	Extracting Photoplethysmographic Waveform from Bulbar Conjunctiva Video. , 2018, , .		0
95	Random Convolutional Neural Network Based on Distributed Computing with Decentralized Architecture. Lecture Notes in Computer Science, 2019, , 504-510.	1.0	0
96	Modified Hybrid Task Cascade for Lung Nodules Segmentation in CT Images with Guided Anchoring. , 2020, , .		0
97	Single-channel EEG automatic sleep staging based on transition optimized HMM. Multimedia Tools and Applications, 0, , .	2.6	0
98	Parallel LSTM Enhanced Forecasting System for Dependable and Secure Household Energy Consumption. , 2021, , .		0