

# Rung-Ching Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

105  
papers

2,573  
citations

236612

25  
h-index

223531

46  
g-index

106  
all docs

106  
docs citations

106  
times ranked

1884  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selecting critical features for data classification based on machine learning methods. Journal of Big Data, 2020, 7, .	6.9	329
2	Automatic License Plate Recognition via sliding-window darknet-YOLO deep learning. Image and Vision Computing, 2019, 87, 47-56.	2.7	206
3	A novel passenger flow prediction model using deep learning methods. Transportation Research Part C: Emerging Technologies, 2017, 84, 74-91.	3.9	181
4	A recommendation system based on domain ontology and SWRL for anti-diabetic drugs selection. Expert Systems With Applications, 2012, 39, 3995-4006.	4.4	128
5	Web page classification based on a support vector machine using a weighted vote schema. Expert Systems With Applications, 2006, 31, 427-435.	4.4	112
6	Yolo V4 for Advanced Traffic Sign Recognition With Synthetic Training Data Generated by Various GAN. IEEE Access, 2021, 9, 97228-97242.	2.6	94
7	Merging domain ontologies based on the WordNet system and Fuzzy Formal Concept Analysis techniques. Applied Soft Computing Journal, 2011, 11, 1908-1923.	4.1	64
8	An artificial bee colony algorithm for data collection path planning in sparse wireless sensor networks. International Journal of Machine Learning and Cybernetics, 2015, 6, 375-383.	2.3	64
9	Fast Adaptive K-Means Subspace Clustering for High-Dimensional Data. IEEE Access, 2019, 7, 42639-42651.	2.6	62
10	Deep Learning for Traffic Sign Recognition Based on Spatial Pyramid Pooling with Scale Analysis. Applied Sciences (Switzerland), 2020, 10, 6997.	1.3	56
11	Deep convolutional neural network for enhancing traffic sign recognition developed on Yolo V4. Multimedia Tools and Applications, 2022, 81, 37821-37845.	2.6	53
12	Weight analysis for various prohibitory sign detection and recognition using deep learning. Multimedia Tools and Applications, 2020, 79, 32897-32915.	2.6	49
13	Segmenting handwritten Chinese characters based on heuristic merging of stroke bounding boxes and dynamic programming. Pattern Recognition Letters, 1998, 19, 963-973.	2.6	47
14	Employing long short-term memory and Facebook prophet model in air temperature forecasting. Communications in Statistics Part B: Simulation and Computation, 2023, 52, 279-290.	0.6	46
15	Using Random Forest Algorithm for Breast Cancer Diagnosis. , 2018, , .		44
16	Emotion stress detection using EEG signal and deep learning technologies. , 2018, , .		42
17	Evaluation of Robust Spatial Pyramid Pooling Based on Convolutional Neural Network for Traffic Sign Recognition System. Electronics (Switzerland), 2020, 9, 889.	1.8	42
18	Using recursive ART network to construction domain ontology based on term frequency and inverse document frequency. Expert Systems With Applications, 2008, 34, 488-501.	4.4	38

#	ARTICLE	IF	CITATIONS
19	Prediction of Status Particulate Matter 2.5 Using State Markov Chain Stochastic Process and HYBRID VAR-NN-PSO. IEEE Access, 2019, 7, 161654-161665.	2.6	38
20	Using EEG and Deep Learning to Predict Motion Sickness Under Wearing a Virtual Reality Device. IEEE Access, 2020, 8, 126784-126796.	2.6	37
21	Synthetic Data generation using DCGAN for improved traffic sign recognition. Neural Computing and Applications, 2022, 34, 21465-21480.	3.2	34
22	Adjusting eye aspect ratio for strong eye blink detection based on facial landmarks. PeerJ Computer Science, 2022, 8, e943.	2.7	33
23	User Rating Classification via Deep Belief Network Learning and Sentiment Analysis. IEEE Transactions on Computational Social Systems, 2019, 6, 535-546.	3.2	32
24	Semi-supervised multi-label feature selection via label correlation analysis with $l_1$ -norm graph embedding. Image and Vision Computing, 2017, 63, 10-23.	2.7	31
25	Cluster Around Latent Variable for Vulnerability Towards Natural Hazards, Non-Natural Hazards, Social Hazards in West Papua. IEEE Access, 2021, 9, 1972-1986.	2.6	30
26	Robust detection method for improving small traffic sign recognition based on spatial pyramid pooling. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 8135-8152.	3.3	30
27	Clinical Decision Support System for Diabetes Based on Ontology Reasoning and TOPSIS Analysis. Journal of Healthcare Engineering, 2017, 2017, 1-14.	1.1	29
28	Robust Dimension Reduction for Clustering With Local Adaptive Learning. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 657-669.	7.2	29
29	Human Activity Recognition Based on Evolution of Features Selection and Random Forest. , 2019, , .		28
30	Various Generative Adversarial Networks Model for Synthetic Prohibitory Sign Image Generation. Applied Sciences (Switzerland), 2021, 11, 2913.	1.3	27
31	Using Hierarchical Likelihood Towards Support Vector Machine: Theory and Its Application. IEEE Access, 2020, 8, 194795-194807.	2.6	25
32	Real-Time Facial Affective Computing on Mobile Devices. Sensors, 2020, 20, 870.	2.1	24
33	RECOGNITION AND DATA EXTRACTION OF FORM DOCUMENTS BASED ON THREE TYPES OF LINE SEGMENTS. Pattern Recognition, 1998, 31, 1525-1540.	5.1	22
34	A ROI image retrieval method based on CVAAO. Image and Vision Computing, 2008, 26, 1540-1549.	2.7	21
35	Connecting Climate and Communicable Disease to Penta Helix Using Hierarchical Likelihood Structural Equation Modelling. Symmetry, 2021, 13, 657.	1.1	21
36	Efficient Key Pre-distribution for Sensor Nodes with Strong Connectivity and Low Storage Space. , 2008, , .		20

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37	Construction of a Clinical Decision Support System for Undergoing Surgery Based on Domain Ontology and Rules Reasoning. <i>Telemedicine Journal and E-Health</i> , 2014, 20, 460-472.	1.6	19
38	Using ambient intelligence to extend network lifetime in wireless sensor networks. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2016, 7, 777-788.	3.3	19
39	Impacts of Weather on Short-Term Metro Passenger Flow Forecasting Using a Deep LSTM Neural Network. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2962.	1.3	19
40	Automating construction of a domain ontology using a projective adaptive resonance theory neural network and Bayesian network. <i>Expert Systems</i> , 2008, 25, 414-430.	2.9	18
41	Applying a multistage of input feature combination to random forest for improving MRT passenger flow prediction. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019, 10, 4515-4532.	3.3	16
42	Hybrid Vector Autoregression Feedforward Neural Network with Genetic Algorithm Model for Forecasting Space-Time Pollution Data. <i>Indonesian Journal of Science and Technology</i> , 2021, 6, 243-266.	0.7	15
43	Taiwan Stop Sign Recognition with Customize Anchor. , 2020, , .		15
44	Using Sharpness Image with Haar Function for Urban Atmospheric Visibility Measurement. <i>Aerosol and Air Quality Research</i> , 2010, 10, 323-330.	0.9	15
45	The recommendation of medicines based on multiple criteria decision making and domain ontology &#x2014; An example of anti-diabetic medicines. , 2011, , .		12
46	Semi-supervised feature selection with exploiting shared information among multiple tasks. <i>Journal of Visual Communication and Image Representation</i> , 2016, 41, 272-280.	1.7	12
47	Similar Music Instrument Detection via Deep Convolution YOLO-Generative Adversarial Network. , 2019, , .		12
48	Did Noise Pollution Really Improve during COVID-19? Evidence from Taiwan. <i>Sustainability</i> , 2021, 13, 5946.	1.6	12
49	Design of multiplex PCR primers using heuristic algorithm for sequential deletion applications. <i>Computational Biology and Chemistry</i> , 2009, 33, 181-188.	1.1	11
50	A Light-Weight Ranger Intrusion Detection System on Wireless Sensor Networks. , 2011, , .		11
51	Dietary recommendation based on recipe ontology. , 2014, , .		9
52	Unsupervised feature analysis with sparse adaptive learning. <i>Pattern Recognition Letters</i> , 2018, 102, 89-94.	2.6	9
53	Using Hybrid Artificial Bee Colony Algorithm to Extend Wireless Sensor Network Lifetime. , 2012, , .		8
54	Course-recommendation system based on ontology. , 2013, , .		8

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55	Comparative Analysis of Restricted Boltzmann Machine Models for Image Classification. Lecture Notes in Computer Science, 2020, , 285-296.	1.0	8
56	Applying an Ontology to a Patrol Intrusion Detection System for Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 634748.	1.3	7
57	Combining Smartwatch and Environments Data for Predicting the Heart Rate. , 2018, , .		7
58	Latent Regression and Ordination Risk of Infectious Disease and Climate. Procedia Computer Science, 2021, 179, 25-32.	1.2	7
59	Wasserstein Generative Adversarial Networks for Realistic Traffic Sign Image Generation. Lecture Notes in Computer Science, 2021, , 479-493.	1.0	7
60	Experiment Improvement of Restricted Boltzmann Machine Methods for Image Classification. Vietnam Journal of Computer Science, 2021, 08, 417-432.	1.0	7
61	A RECOMMENDATION SYSTEM FOR ANTI-DIABETIC DRUGS SELECTION BASED ON FUZZY REASONING AND ONTOLOGY TECHNIQUES. International Journal of Pattern Recognition and Artificial Intelligence, 2013, 27, 1359001.	0.7	6
62	Performance of PTS-Based Firefly Algorithm Scheme for PAPR Reduction in SFBC MIMO-OFDM Communication Systems. , 2016, , .		6
63	A MRT Daily Passenger Flow Prediction Model with Different Combinations of Influential Factors. , 2017, , .		6
64	Using SVM and Random forest for different features selection in predicting bike rental amount. , 2018, , .		5
65	Resident activity recognition based on binary infrared sensors and soft computing. International Journal of Machine Learning and Cybernetics, 2019, 10, 291-299.	2.3	5
66	Evolving Hybrid Cascade Neural Network Genetic Algorithm Space-Time Forecasting. Symmetry, 2021, 13, 1158.	1.1	5
67	Indonesian Islamic moral incentives in credit card debt repayment: a feature selection using various data mining. International Journal of Islamic and Middle Eastern Finance and Management, 2022, 15, 100-124.	1.3	5
68	Revisiting Cluster Vulnerabilities towards Information and Communication Technologies in the Eastern Island of Indonesia Using Fuzzy C Means. Sustainability, 2022, 14, 3428.	1.6	5
69	Using Fuzzy Neural Networks and rule heuristics for anomaly intrusion detection on database connection. , 2008, , .		4
70	Development of anti-diabetic drugs ontology for guideline-based clinical drugs recommend system using OWL and SWRL. , 2010, , .		4
71	Using ZeeBee Sensor Network with artificial neural network for indoor location. , 2012, , .		4
72	The carbon dioxide concentration detection using mobile phones combine bluetooth and QR code. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
73	The nutrients of chronic diet recommended based on domain ontology and decision tree. , 2015, , .		4
74	Automatic generation and recommendation of recipes based on outlier analysis. , 2015, , .		4
75	Temperature control with fuzzy neural network. , 2017, , .		4
76	Semi-supervised adaptive feature analysis and its application for multimedia understanding. Multimedia Tools and Applications, 2018, 77, 3083-3104.	2.6	4
77	Predicting the Default Borrowers in P2P Platform Using Machine Learning Models. Communications in Computer and Information Science, 2021, , 267-281.	0.4	4
78	Generate Realistic Traffic Sign Image using Deep Convolutional Generative Adversarial Networks. , 2021, , .		4
79	Synthetic Traffic Sign Image Generation Applying Generative Adversarial Networks. Vietnam Journal of Computer Science, 2022, 09, 333-348.	1.0	4
80	Big data ordination towards intensive care event count cases using fast computing GLLVMS. BMC Medical Research Methodology, 2022, 22, 77.	1.4	4
81	A fuzzy recommendation system for daily water intake. Advances in Mechanical Engineering, 2016, 8, 168781401664993.	0.8	3
82	Passenger Flow Prediction Using Weather Data for Metro Systems. , 2018, , .		3
83	Combination of Resnet and Spatial Pyramid Pooling for Musical Instrument Identification. Cybernetics and Information Technologies, 2022, 22, 104-116.	0.4	3
84	Activity awareness based on simple sensors. , 2014, , .		2
85	Measuring student mental readiness for flipped blended learning: Scale development and validation. , 2017, , .		2
86	Predicting passenger flow using different influence factors for Taipei MRT system. , 2017, , .		2
87	K-Means Clustering with Feature Selection for Stream Data. , 2018, , .		2
88	Deep learning to predict user rating in imbalance classification data incorporating ensemble methods. , 2018, , .		2
89	Montecarlo Approach For Solving Unbound Knapsack Problem. , 2020, , .		2
90	Road Segmentation and Environment Labeling for Autonomous Vehicles. Applied Sciences (Switzerland), 2022, 12, 7191.	1.3	2

#	ARTICLE	IF	CITATIONS
91	Medical Adverse Events Classification for Domain Knowledge Extraction. , 2009, , .		1
92	A New Method for Estimating Bank Credit Risk. , 2010, , .		1
93	A study on generating ontology model in a situational aware smart room. , 2012, , .		1
94	Performance of frequency resource assignment schemes for cognitive radio based cooperative communication systems. , 2016, , .		1
95	Fast and robust K-means clustering via feature learning on high-dimensional data. , 2017, , .		1
96	A novel passenger flow prediction model using deep learning methods. , 2017, 84, 74-74.		1
97	Predicting the Japanese Yen to US Dollar Exchange Rate Based on Machine Learning Models. , 2020, , .		1
98	Combination of EEG and Brainwave Mind Lamp to detect the value of Attention, Meditation and Fatigue of a person. , 2021, , .		1
99	A novel method for medical adverse events classification. , 2011, , .		0
100	Performance of adaptive fuzzy bandwidth expansion scheme for OFDM communication systems. , 2014, , .		0
101	Identification the activities of daily living based on decision tree. , 2015, , .		0
102	Users privacy exposure protection on social media. , 2017, , .		0
103	The Selection and Reduction of Fuzzy Rules Based on the Least Angle Regression Algorithm. , 2018, , .		0
104	Remedial education for high-risk university freshmen “ the case of a university of technology in Taiwan. Asia Pacific Journal of Education, 2018, 38, 241-256.	1.2	0
105	Improving Students Learning Performance from Learning Engagement and Institutional Resources Planning. Advanced Science Letters, 2018, 24, 8011-8015.	0.2	0