

# 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	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
2	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
3	Synthetic Data generation using DCGAN for improved traffic sign recognition. Neural Computing and Applications, 2022, 34, 21465-21480.	3.2	34
4	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
5	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
6	Synthetic Traffic Sign Image Generation Applying Generative Adversarial Networks. Vietnam Journal of Computer Science, 2022, 09, 333-348.	1.0	4
7	Big data ordination towards intensive care event count cases using fast computing GLLVMS. BMC Medical Research Methodology, 2022, 22, 77.	1.4	4
8	Combination of Resnet and Spatial Pyramid Pooling for Musical Instrument Identification. Cybernetics and Information Technologies, 2022, 22, 104-116.	0.4	3
9	Adjusting eye aspect ratio for strong eye blink detection based on facial landmarks. PeerJ Computer Science, 2022, 8, e943.	2.7	33
10	Deep convolutional neural network for enhancing traffic sign recognition developed on Yolo V4. Multimedia Tools and Applications, 2022, 81, 37821-37845.	2.6	53
11	Road Segmentation and Environment Labeling for Autonomous Vehicles. Applied Sciences (Switzerland), 2022, 12, 7191.	1.3	2
12	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
13	Latent Regression and Ordination Risk of Infectious Disease and Climate. Procedia Computer Science, 2021, 179, 25-32.	1.2	7
14	Predicting the Default Borrowers in P2P Platform Using Machine Learning Models. Communications in Computer and Information Science, 2021, , 267-281.	0.4	4
15	Hybrid Vector Autoregression Feedforward Neural Network with Genetic Algorithm Model for Forecasting Space-Time Pollution Data. Indonesian Journal of Science and Technology, 2021, 6, 243-266.	0.7	15
16	Yolo V4 for Advanced Traffic Sign Recognition With Synthetic Training Data Generated by Various GAN. IEEE Access, 2021, 9, 97228-97242.	2.6	94
17	Wasserstein Generative Adversarial Networks for Realistic Traffic Sign Image Generation. Lecture Notes in Computer Science, 2021, , 479-493.	1.0	7
18	Experiment Improvement of Restricted Boltzmann Machine Methods for Image Classification. Vietnam Journal of Computer Science, 2021, 08, 417-432.	1.0	7

#	ARTICLE	IF	CITATIONS
19	Various Generative Adversarial Networks Model for Synthetic Prohibitory Sign Image Generation. Applied Sciences (Switzerland), 2021, 11, 2913.	1.3	27
20	Connecting Climate and Communicable Disease to Penta Helix Using Hierarchical Likelihood Structural Equation Modelling. Symmetry, 2021, 13, 657.	1.1	21
21	Did Noise Pollution Really Improve during COVID-19? Evidence from Taiwan. Sustainability, 2021, 13, 5946.	1.6	12
22	Evolving Hybrid Cascade Neural Network Genetic Algorithm Space-Time Forecasting. Symmetry, 2021, 13, 1158.	1.1	5
23	Generate Realistic Traffic Sign Image using Deep Convolutional Generative Adversarial Networks. , 2021, , .		4
24	Combination of EEG and Brainwave Mind Lamp to detect the value of Attention, Meditation and Fatigue of a person. , 2021, , .		1
25	Deep Learning for Traffic Sign Recognition Based on Spatial Pyramid Pooling with Scale Analysis. Applied Sciences (Switzerland), 2020, 10, 6997.	1.3	56
26	Using EEG and Deep Learning to Predict Motion Sickness Under Wearing a Virtual Reality Device. IEEE Access, 2020, 8, 126784-126796.	2.6	37
27	Weight analysis for various prohibitory sign detection and recognition using deep learning. Multimedia Tools and Applications, 2020, 79, 32897-32915.	2.6	49
28	Using Hierarchical Likelihood Towards Support Vector Machine: Theory and Its Application. IEEE Access, 2020, 8, 194795-194807.	2.6	25
29	Evaluation of Robust Spatial Pyramid Pooling Based on Convolutional Neural Network for Traffic Sign Recognition System. Electronics (Switzerland), 2020, 9, 889.	1.8	42
30	Impacts of Weather on Short-Term Metro Passenger Flow Forecasting Using a Deep LSTM Neural Network. Applied Sciences (Switzerland), 2020, 10, 2962.	1.3	19
31	Comparative Analysis of Restricted Boltzmann Machine Models for Image Classification. Lecture Notes in Computer Science, 2020, , 285-296.	1.0	8
32	Taiwan Stop Sign Recognition with Customize Anchor. , 2020, , .		15
33	Selecting critical features for data classification based on machine learning methods. Journal of Big Data, 2020, 7, .	6.9	329
34	Real-Time Facial Affective Computing on Mobile Devices. Sensors, 2020, 20, 870.	2.1	24
35	Predicting the Japanese Yen to US Dollar Exchange Rate Based on Machine Learning Models. , 2020, , .		1
36	Montecarlo Approach For Solving Unbound Knapsack Problem. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
37	Robust Dimension Reduction for Clustering With Local Adaptive Learning. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 657-669.	7.2	29
38	User Rating Classification via Deep Belief Network Learning and Sentiment Analysis. IEEE Transactions on Computational Social Systems, 2019, 6, 535-546.	3.2	32
39	Automatic License Plate Recognition via sliding-window darknet-YOLO deep learning. Image and Vision Computing, 2019, 87, 47-56.	2.7	206
40	Fast Adaptive K-Means Subspace Clustering for High-Dimensional Data. IEEE Access, 2019, 7, 42639-42651.	2.6	62
41	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
42	Similar Music Instrument Detection via Deep Convolution YOLO-Generative Adversarial Network. , 2019, , .		12
43	Human Activity Recognition Based on Evolution of Features Selection and Random Forest. , 2019, , .		28
44	Applying a multistage of input feature combination to random forest for improving MRT passenger flow prediction. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 4515-4532.	3.3	16
45	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
46	Unsupervised feature analysis with sparse adaptive learning. Pattern Recognition Letters, 2018, 102, 89-94.	2.6	9
47	Semi-supervised adaptive feature analysis and its application for multimedia understanding. Multimedia Tools and Applications, 2018, 77, 3083-3104.	2.6	4
48	K-Means Clustering with Feature Selection for Stream Data. , 2018, , .		2
49	Using Random Forest Algorithm for Breast Cancer Diagnosis. , 2018, , .		44
50	The Selection and Reduction of Fuzzy Rules Based on the Least Angle Regression Algorithm. , 2018, , .		0
51	Using SVM and Random forest for different features selection in predicting bike rental amount. , 2018, , .		5
52	Passenger Flow Prediction Using Weather Data for Metro Systems. , 2018, , .		3
53	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
54	Emotion stress detection using EEG signal and deep learning technologies. , 2018, , .		42

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55	Deep learning to predict user rating in imbalance classification data incorporating ensemble methods. , 2018, , .		2
56	Combining Smartwatch and Environments Data for Predicting the Heart Rate. , 2018, , .		7
57	Improving Students Learning Performance from Learning Engagement and Institutional Resources Planning. Advanced Science Letters, 2018, 24, 8011-8015.	0.2	0
58	A MRT Daily Passenger Flow Prediction Model with Different Combinations of Influential Factors. , 2017, , .		6
59	A novel passenger flow prediction model using deep learning methods. Transportation Research Part C: Emerging Technologies, 2017, 84, 74-91.	3.9	181
60	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
61	Measuring student mental readiness for flipped blended learning: Scale development and validation. , 2017, , .		2
62	Temperature control with fuzzy neural network. , 2017, , .		4
63	Fast and robust K-means clustering via feature learning on high-dimensional data. , 2017, , .		1
64	Users privacy exposure protection on social media. , 2017, , .		0
65	Predicting passenger flow using different influence factors for Taipei MRT system. , 2017, , .		2
66	Clinical Decision Support System for Diabetes Based on Ontology Reasoning and TOPSIS Analysis. Journal of Healthcare Engineering, 2017, 2017, 1-14.	1.1	29
67	A novel passenger flow prediction model using deep learning methods. , 2017, 84, 74-74.		1
68	Performance of frequency resource assignment schemes for cognitive radio based cooperative communication systems. , 2016, , .		1
69	Performance of PTS-Based Firefly Algorithm Scheme for PAPR Reduction in SFBC MIMO-OFDM Communication Systems. , 2016, , .		6
70	Semi-supervised feature selection with exploiting shared information among multiple tasks. Journal of Visual Communication and Image Representation, 2016, 41, 272-280.	1.7	12
71	A fuzzy recommendation system for daily water intake. Advances in Mechanical Engineering, 2016, 8, 168781401664993.	0.8	3
72	Using ambient intelligence to extend network lifetime in wireless sensor networks. Journal of Ambient Intelligence and Humanized Computing, 2016, 7, 777-788.	3.3	19

#	ARTICLE	IF	CITATIONS
73	Identification the activities of daily living based on decision tree. , 2015, , .		0
74	The nutrients of chronic diet recommended based on domain ontology and decision tree. , 2015, , .		4
75	Automatic generation and recommendation of recipes based on outlier analysis. , 2015, , .		4
76	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
77	Dietary recommendation based on recipe ontology. , 2014, , .		9
78	Construction of a Clinical Decision Support System for Undergoing Surgery Based on Domain Ontology and Rules Reasoning. Telemedicine Journal and E-Health, 2014, 20, 460-472.	1.6	19
79	The carbon dioxide concentration detection using mobile phones combine bluetooth and QR code. , 2014, , .		4
80	Performance of adaptive fuzzy bandwidth expansion scheme for OFDM communication systems. , 2014, , .		0
81	Activity awareness based on simple sensors. , 2014, , .		2
82	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
83	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
84	Course-recommendation system based on ontology. , 2013, , .		8
85	Using ZeeBee Sensor Network with artificial neural network for indoor location. , 2012, , .		4
86	A study on generating ontology model in a situational aware smart room. , 2012, , .		1
87	Using Hybrid Artificial Bee Colony Algorithm to Extend Wireless Sensor Network Lifetime. , 2012, , .		8
88	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
89	A novel method for medical adverse events classification. , 2011, , .		0
90	A Light-Weight Ranger Intrusion Detection System on Wireless Sensor Networks. , 2011, , .		11

#	ARTICLE	IF	CITATIONS
91	The recommendation of medicines based on multiple criteria decision making and domain ontology &#x2014; An example of anti-diabetic medicines. , 2011, , .		12
92	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
93	Development of anti-diabetic drugs ontology for guideline-based clinical drugs recommend system using OWL and SWRL. , 2010, , .		4
94	A New Method for Estimating Bank Credit Risk. , 2010, , .		1
95	Using Sharpness Image with Haar Function for Urban Atmospheric Visibility Measurement. Aerosol and Air Quality Research, 2010, 10, 323-330.	0.9	15
96	Medical Adverse Events Classification for Domain Knowledge Extraction. , 2009, , .		1
97	Design of multiplex PCR primers using heuristic algorithm for sequential deletion applications. Computational Biology and Chemistry, 2009, 33, 181-188.	1.1	11
98	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
99	A ROI image retrieval method based on CVAAO. Image and Vision Computing, 2008, 26, 1540-1549.	2.7	21
100	Automating construction of a domain ontology using a projective adaptive resonance theory neural network and Bayesian network. Expert Systems, 2008, 25, 414-430.	2.9	18
101	Using Fuzzy Neural Networks and rule heuristics for anomaly intrusion detection on database connection. , 2008, , .		4
102	Efficient Key Pre-distribution for Sensor Nodes with Strong Connectivity and Low Storage Space. , 2008, , .		20
103	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
104	RECOGNITION AND DATA EXTRACTION OF FORM DOCUMENTS BASED ON THREE TYPES OF LINE SEGMENTS. Pattern Recognition, 1998, 31, 1525-1540.	5.1	22
105	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