Wing W Y Ng

List of Publications by Year in Descending Order

116 papers	1,107 citations	16 h-index	29 g-index
161 ext. papers	1,573 ext. citations	5.2 avg, IF	4.81 L-index

#	Paper	IF	Citations
116	Multi-Objective Two-Echelon City Dispatching Problem With Mobile Satellites and Crowd-Shipping. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-14	6.1	1
115	Ensembling perturbation-based oversamplers for imbalanced datasets. *Neurocomputing*, **2022**, 479, 1-11	5.4	0
114	Dynamic Incremental Ensemble Fuzzy Classifier for Data Streams in Green Internet of Things. *IEEE Transactions on Green Communications and Networking*, **2022**, 1-1	4	1
113	MultiCycleNet: Multiple Cycles Self-Boosted Neural Network for Short-term Electric Household Load Forecasting. *Sustainable Cities and Society*, **2021**, 103484	10.1	5
112	Concept Preserving Hashing for Semantic Image Retrieval With Concept Drift. *IEEE Transactions on Cybernetics*, **2021**, 51, 5184-5197	10.2	0
111	A stochastic sensitivity-based multi-objective optimization method for short-term wind speed interval prediction. *International Journal of Machine Learning and Cybernetics*, **2021**, 12, 2579-2590	3.8	3
110	Maximizing minority accuracy for imbalanced pattern classification problems using cost-sensitive Localized Generalization Error Model. *Applied Soft Computing Journal*, **2021**, 104, 107178	7.5	4
109	HELP: An LSTM-based approach to hyperparameter exploration in neural network learning. *Neurocomputing*, **2021**, 442, 161-172	5.4	2
108	Causative label flip attack detection with data complexity measures. *International Journal of Machine Learning and Cybernetics*, **2021**, 12, 103-116	3.8	1
107	Multi-Occupancy Fall Detection Using Non-Invasive Thermal Vision Sensor. *IEEE Sensors Journal*, **2021**, 21, 5377-5388	4	8
106	D4Net: De-deformation defect detection network for non-rigid products with large patterns. *Information Sciences*, **2021**, 547, 763-776	7.7	5
105	Multi-View Neural Network Ensemble for Short and Mid-Term Load Forecasting. *IEEE Transactions on Power Systems*, **2021**, 36, 2992-3003	7	8
104	Convolutional Multitimescale Echo State Network. *IEEE Transactions on Cybernetics*, **2021**, 51, 1613-1625	10.2	12
103	LiSSA: Localized Stochastic Sensitive Autoencoders. *IEEE Transactions on Cybernetics*, **2021**, 51, 2748-2760	10.2	3
102	A Gesture and Speech-guided Robot Teleoperation Method Based on Mobile Interaction with Unrestricted Force Feedback. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-1	5.5	3
101	Verifiable, Reliable, and Privacy-Preserving Data Aggregation in Fog-Assisted Mobile Crowdsensing. *IEEE Internet of Things Journal*, **2021**, 8, 14127-14140	10.7	6
100	Deep autoencoder with localized stochastic sensitivity for short-term load forecasting. *International Journal of Electrical Power and Energy Systems*, **2021**, 130, 106954	5.1	4

99	A deep learning based hybrid method for hourly solar radiation forecasting. *Expert Systems With Applications*, **2021**, 177, 114941	7.8	16
98	An improved group theory-based optimization algorithm for discounted 0-1 knapsack problem. *Advances in Computational Intelligence*, **2021**, 1, 1		0
97	A Deep Clustering via Automatic Feature Embedded Learning for Human Activity Recognition. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 1-1	6.4	3
96	Radial Basis Function Neural Network with Localized Stochastic-Sensitive Autoencoder for Home-Based Activity Recognition. *Sensors*, **2020**, 20,	3.8	5
95	Incremental hashing with sample selection using dominant sets. *International Journal of Machine Learning and Cybernetics*, **2020**, 11, 2689-2702	3.8	2
94	Decomposition Based Multi-Objective Variable Neighborhood Descent Algorithm for Logistics Dispatching. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2020**, 1-14	4.1	3
93	Training error and sensitivity-based ensemble feature selection. *International Journal of Machine Learning and Cybernetics*, **2020**, 11, 2313-2326	3.8	5
92	Hashing-Based Undersampling Ensemble for Imbalanced Pattern Classification Problems. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	8
91	Multi-level supervised hashing with deep features for efficient image retrieval. *Neurocomputing*, **2020**, 399, 171-182	5.4	11
90	SALMNet: A Structure-Aware Lane Marking Detection Network. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 1-12	6.1	7
89	Load forecasting based on deep neural network and historical data augmentation. *IET Generation, Transmission and Distribution*, **2020**, 14, 5927-5934	2.5	11
88	Bootstrap dual complementary hashing with semi-supervised re-ranking for image retrieval. *Neurocomputing*, **2020**, 379, 103-116	5.4	3
87	Weighted multi-deep ranking supervised hashing for efficient image retrieval. *International Journal of Machine Learning and Cybernetics*, **2020**, 11, 883-897	3.8	6
86	Two-Echelon Dispatching Problem With Mobile Satellites in City Logistics. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 1-13	6.1	2
85	Minority Oversampling Using Sensitivity **2020**,		1
84	Multi-Level Local Feature Coding Fusion for Music Genre Recognition. *IEEE Access*, **2020**, 8, 152713-152727	3.5	8
83	Within-class multimodal classification. *Multimedia Tools and Applications*, **2020**, 79, 29327-29352	2.5	0
82	Robust Neural Networks Learning via a Minimization of Stochastic Output Sensitivity. *IEEE Access*, **2020**, 8, 205455-205466	3.5	

81	Stochastic Sensitivity Tree Boosting for Imbalanced Prediction Problems of Protein-Ligand Interaction Sites. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2020**, 1-11	4.1	
80	Global-Local Mutual Attention Model for Text Classification. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2019**, 27, 2127-2139	3.6	13
79	Evaluation of radial basis function neural network minimizing L-GEM for sensor-based activity recognition. *Journal of Ambient Intelligence and Humanized Computing*, **2019**, 1	3.7	5
78	Incremental Hash-Bit Learning for Semantic Image Retrieval in Nonstationary Environments. *IEEE Transactions on Cybernetics*, **2019**, 49, 3844-3858	10.2	8
77	. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 1588-1597	11.9	25
76	A robust correlation analysis framework for imbalanced and dichotomous data with uncertainty. *Information Sciences*, **2019**, 470, 58-77	7.7	31
75	. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 4819-4829	11.9	20
74	Attention-based spatio-temporal dependence learning network. *Information Sciences*, **2019**, 503, 92-108	7.7	7
73	Neural Network Ensembles for Sensor-Based Human Activity Recognition Within Smart Environments. *Sensors*, **2019**, 20,	3.8	31
72	Undersampling Near Decision Boundary for Imbalance Problems **2019**,		6
71	Incremental Hashing with Undersampling **2019**,		1
70	Incremental Hashing with Dynamic Semantic Pool **2018**,		1
69	Stochastic Sensitivity Measure-Based Noise Filtering and Oversampling Method for Imbalanced Classification Problems **2018**,		4
68	Loan Default Prediction Using Diversified Sensitivity Undersampling **2018**,		9
67	Sequential conditional entropy maximization semi-supervised hashing for semantic image retrieval. *International Journal of Machine Learning and Cybernetics*, **2017**, 8, 571-586	3.8	7
66	Color Distribution Pattern Metric for Person Reidentification. *Wireless Communications and Mobile Computing*, **2017**, 2017, 1-11	1.9	
65	Improved sparse LSSVMS based on the localized generalization error model. *International Journal of Machine Learning and Cybernetics*, **2017**, 8, 1853-1861	3.8	8
64	Visual words selection for human action recognition using rbfnn via the minimization of L-GEM **2017**,		1

63	Dual Denoising Autoencoder Features for Imbalance Classification Problems **2017**,		2
62	Human Activity Recognition Using Radial Basis Function Neural Network Trained via a Minimization of Localized Generalization Error. *Lecture Notes in Computer Science*, **2017**, 498-507	0.9	5
61	Incremental Hashing for Semantic Image Retrieval in Nonstationary Environments. *IEEE Transactions on Cybernetics*, **2017**, 47, 3814-3826	10.2	13
60	MLPNN Training via a Multiobjective Optimization of Training Error and Stochastic Sensitivity. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 978-92	10.3	39
59	Location bagging-based undersampling for imbalanced classification problems **2016**,		4
58	Effects of different base classifiers to Learn++ family algorithms for concept drifting and imbalanced pattern classification problems **2016**,		2
57	Semi-supervised online hashing **2016**,		2
56	. *IEEE Transactions on Multimedia*, **2015**, 17, 1225-1235	6.6	29
55	Quantification of side-channel information leaks based on data complexity measures for web browsing. *International Journal of Machine Learning and Cybernetics*, **2015**, 6, 607-619	3.8	5
54	Sensitivity based image filtering for multi-hashing in large scale image retrieval problems. *International Journal of Machine Learning and Cybernetics*, **2015**, 6, 777-794	3.8	7
53	Diversified Sensitivity-Based Undersampling for Imbalance Classification Problems. *IEEE Transactions on Cybernetics*, **2015**, 45, 2402-12	10.2	114
52	Spam filtering for short messages in adversarial environment. *Neurocomputing*, **2015**, 155, 167-176	5.4	45
51	Bi-firing deep neural networks. *International Journal of Machine Learning and Cybernetics*, **2014**, 5, 73-83	3.8	11
50	LG-Trader: Stock trading decision support based on feature selection by weighted localized generalization error model. *Neurocomputing*, **2014**, 146, 104-112	5.4	16
49	An improved differential evolution and its application to determining feature weights in similarity-based clustering. *Neurocomputing*, **2014**, 146, 95-103	5.4	19
48	Human action recognition using action bank and RBFNN trained by L-GEM **2014**,		2
47	A study of influence between digital watermarking and steganography **2013**,		1
46	HYPER-PARAMETER SELECTION FOR SPARSE LS-SVM VIA MINIMIZATION OF ITS LOCALIZED GENERALIZATION ERROR. *International Journal of Wavelets, Multiresolution and Information Processing*, **2013**, 11, 1350030	0.9	11

45	Effects of double JPEG compression on steganalysis **2012**,		1
44	Dynamic fusion method using Localized Generalization Error Model. *Information Sciences*, **2012**, 217, 1-20	7.7	20
43	Comparision of different classifiers in fault detection in microgrid **2011**,		2
42	Stock investment decision support for Hong Kong market using RBFNN based candlestick models **2011**,		4
41	Blind steganalysis with high generalization capability for different image databases using L-GEM **2011**,		1
40	Depth estimation from a single image using defocus cues **2011**,		9
39	Multiple classifier system for short term load forecast of Microgrid **2011**,		14
38	Intelligent book positioning for library using RFID and book spine matching **2011**,		6
37	A novel defend against good word attacks **2011**,		1
36	A survey of the initialization of centers and widths in radial basis function network for classification **2011**,		1
35	Empirical study on the architecture selection of RBFNN using L-GEM for multi-class problems **2011**,		2
34	Sensitivity based Growing and Pruning method for RBF network in online learning environments **2011**,		2
33	Dynamic base classifier pool for classifier selection in Multiple Classifier Systems **2011**,		1
32	Social relationship discovery and face annotation in personal photo collection **2011**,		2
31	3D Goods allocation in warehouse with L-GEM based 3-D RFID positioning **2011**,		3
30	A novel method to reduce redundancy in adaptive threshold clustering key frame extraction systems **2011**,		3
29	Efficiency of applying virtual reference tag to neural network based RFID indoor positioning method **2011**,		6
28	Empirical comparison of forward and backward search strategies in L-GEM based feature selection with RBFNN **2010**,		6

27	Feature weighting based on L-GEM **2010**,		1
26	RFID reader deployment using RBFNN with L-GEM **2010**,		1
25	A growing architecture selection for Multilayer Perceptron Neural Network by the L-GEM **2010**,		3
24	Video shot boundary detection using RBFNN minimizing the L-GEM **2010**,		2
23	L-GEM based RBFNN for news anchorperson detection with Dominant Color Descriptor **2010**,		2
22	A novel gradient synthesis-based illumination formalization method for face recognition under varying lighting conditions **2010**,		2
21	Feature selection for blind steganalysis using localized generalization error model **2010**,		3
20	RFID indoor positioning using RBFNN with L-GEM **2010**,		8
19	Anti-spoofing system for RFID access control combining with face recogntion **2010**,		1
18	Access control by RFID and face recognition based on neural network **2010**,		8
17	Content-based image retrieval using color moment and Gabor texture feature **2010**,		50
16	Video text detection and localization based on localized generalization error model **2010**,		1
15	Image segmentation with color and texture using RBFNN minimizing the L-GEM **2009**,		1
14	L-GEM based MCS aided candlestick pattern investment strategy in the Shenzhen stock market **2009**,		1
13	A brief survey on current RFID applications **2009**,		5
12	Prediction of chaotic time series using L-GEM based RBFNN **2009**,		1
11	An experimental study on the selection of Q-value for the L-GEM **2009**,		1
10	Localized generalization error based active learning for image annotation. *Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics*, **2008**,	2	6

9	THE LOCALIZED GENERALIZATION ERROR MODEL FOR SINGLE LAYER PERCEPTRON NEURAL NETWORK AND SIGMOID SUPPORT VECTOR MACHINE. *International Journal of Pattern Recognition and Artificial Intelligence*, **2008**, 22, 121-135	1.1	2
8	A NOVEL FEATURE GROUPING METHOD FOR ENSEMBLE NEURAL NETWORK USING LOCALIZED GENERALIZATION ERROR MODEL. *International Journal of Pattern Recognition and Artificial Intelligence*, **2008**, 22, 137-151	1.1	3
7	Feature selection using localized generalization error for supervised classification problems using RBFNN. *Pattern Recognition*, **2008**, 41, 3706-3719	7.7	59
6	Bankruptcy Prediction Using Multiple Intelligent Agent System via a Localized Generalization Error Approach **2007**,		2
5	Structured large margin machines: sensitive to data distributions. *Machine Learning*, **2007**, 68, 171-200	4	54
4	A multiple intelligent agent system for credit risk prediction via an optimization of localized generalization error with diversity. *Journal of Systems Science and Systems Engineering*, **2007**, 16, 166-180	1.2	16
3	Localized generalization error model and its application to architecture selection for radial basis function neural network. *IEEE Transactions on Neural Networks*, **2007**, 18, 1294-305		119
2	Bit-wise attention deep complementary supervised hashing for image retrieval. *Multimedia Tools and Applications*,1	2.5	0
1	An automatic framework for perioperative risks classification from retinal images of complex congenital heart disease patients. *International Journal of Machine Learning and Cybernetics*,1	3.8	2