

Chai Quek

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134
papers

3,229
citations

34
h-index

52
g-index

158
ext. papers

3,822
ext. citations

5
avg, IF

5.49
L-index

#	Paper	IF	Citations
134	Optimizing the channel selection and classification accuracy in EEG-based BCI. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 1865-73	5	229
133	POP-TRAFFIC: a novel fuzzy neural approach to road traffic analysis and prediction. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2006 , 7, 133-146	6.1	128
132	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017 , 18, 1993-2016	6.1	127
131	GenSoFNN: a generic self-organizing fuzzy neural network. <i>IEEE Transactions on Neural Networks</i> , 2002 , 13, 1075-86		117
130	Ellifit: An unconstrained, non-iterative, least squares based geometric Ellipse Fitting method. <i>Pattern Recognition</i> , 2013 , 46, 1449-1465	7.7	95
129	A novel application of a neuro-fuzzy computational technique in event-based rainfall runoff modeling. <i>Expert Systems With Applications</i> , 2010 , 37, 7456-7468	7.8	94
128	Optimizing spatial filters by minimizing within-class dissimilarities in electroencephalogram-based brain-computer interface. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013 , 24, 610-9	10.3	93
127	A novel cognitive interpretation of breast cancer thermography with complementary learning fuzzy neural memory structure. <i>Expert Systems With Applications</i> , 2007 , 33, 652-666	7.8	82
126	Stock trading using RSPOP: a novel rough set-based neuro-fuzzy approach. <i>IEEE Transactions on Neural Networks</i> , 2006 , 17, 1301-15		82
125	RSPOP: rough set-based pseudo outer-product fuzzy rule identification algorithm. <i>Neural Computation</i> , 2005 , 17, 205-43	2.9	77
124	GA-TSKfnn: Parameters tuning of fuzzy neural network using genetic algorithms. <i>Expert Systems With Applications</i> , 2005 , 29, 769-781	7.8	76
123	Driving profile modeling and recognition based on soft computing approach. <i>IEEE Transactions on Neural Networks</i> , 2009 , 20, 563-82		71
122	POPFNN-CRI(S): pseudo outer product based fuzzy neural network using the compositional rule of inference and singleton fuzzifier. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2003 , 33, 838-49		64
121	ERNN: a biologically inspired feedforward neural network to discriminate emotion from EEG signal. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 609-20	10.3	59
120	EEG data space adaptation to reduce intersession nonstationarity in brain-computer interface. <i>Neural Computation</i> , 2013 , 25, 2146-71	2.9	56
119	Backward Fuzzy Rule Interpolation. <i>IEEE Transactions on Fuzzy Systems</i> , 2014 , 22, 1682-1698	8.3	51
118	A novel framework for making dominant point detection methods non-parametric. <i>Image and Vision Computing</i> , 2012 , 30, 843-859	3.7	49

117	Fuzzylot: a novel self-organising fuzzy-neural rule-based pilot system for automated vehicles. <i>Neural Networks</i> , 2001 , 14, 1099-112	9.1	49
116	Stock trading with cycles: A financial application of ANFIS and reinforcement learning. <i>Expert Systems With Applications</i> , 2011 , 38, 4741-4755	7.8	47
115	Runoff forecasting using a TakagiSugeno neuro-fuzzy model with online learning. <i>Journal of Hydrology</i> , 2013 , 488, 17-32	6	46
114	A novel single-pass thinning algorithm and an effective set of performance criteria. <i>Pattern Recognition Letters</i> , 1995 , 16, 1267-1275	4.7	46
113	GenSo-FDSS: a neural-fuzzy decision support system for pediatric ALL cancer subtype identification using gene expression data. <i>Artificial Intelligence in Medicine</i> , 2005 , 33, 61-88	7.4	45
112	A novel generic hebbian ordering-based fuzzy rule base reduction approach to mamdani neuro-fuzzy system. <i>Neural Computation</i> , 2007 , 19, 1656-80	2.9	44
111	FCMAC-Yager: a novel Yager-inference-scheme-based fuzzy CMAC. <i>IEEE Transactions on Neural Networks</i> , 2006 , 17, 1394-410		43
110	A Brain-Computer Interface for classifying EEG correlates of chronic mental stress 2011 ,		41
109	Cultural dependency analysis for understanding speech emotion. <i>Expert Systems With Applications</i> , 2012 , 39, 5115-5133	7.8	39
108	eFSM--a novel online neural-fuzzy semantic memory model. <i>IEEE Transactions on Neural Networks</i> , 2010 , 21, 136-57		39
107	A fully-online Neuro-Fuzzy model for flow forecasting in basins with limited data. <i>Journal of Hydrology</i> , 2017 , 545, 424-435	6	38
106	FCMAC-EWS: A bank failure early warning system based on a novel localized pattern learning and semantically associative fuzzy neural network. <i>Expert Systems With Applications</i> , 2008 , 34, 989-1003	7.8	38
105	Antiforgery: a novel pseudo-outer product based fuzzy neural network driven signature verification system. <i>Pattern Recognition Letters</i> , 2002 , 23, 1795-1816	4.7	38
104	Ovarian cancer diagnosis with complementary learning fuzzy neural network. <i>Artificial Intelligence in Medicine</i> , 2008 , 43, 207-22	7.4	37
103	SaFIN: a self-adaptive fuzzy inference network. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 1928-40		36
102	A novel approach to the derivation of fuzzy membership functions using the Falcon-MART architecture. <i>Pattern Recognition Letters</i> , 2001 , 22, 941-958	4.7	36
101	FITSK: online local learning with generic fuzzy input Takagi-Sugeno-Kang fuzzy framework for nonlinear system estimation. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2006 , 36, 166-78		35
100	Financial volatility trading using a self-organising neural-fuzzy semantic network and option straddle-based approach. <i>Expert Systems With Applications</i> , 2011 , 38, 4668-4688	7.8	34

99	BIOLOGICAL BRAIN-INSPIRED GENETIC COMPLEMENTARY LEARNING FOR STOCK MARKET AND BANK FAILURE PREDICTION1. <i>Computational Intelligence</i> , 2007 , 23, 236-261	2.5	33
98	Rough-fuzzy rule interpolation. <i>Information Sciences</i> , 2016 , 351, 1-17	7.7	33
97	Financial Market Trading System With a Hierarchical Coevolutionary Fuzzy Predictive Model. <i>IEEE Transactions on Evolutionary Computation</i> , 2009 , 13, 56-70	15.6	30
96	Towards dynamic fuzzy rule interpolation 2013 ,		28
95	POP-Yager: A novel self-organizing fuzzy neural network based on the Yager inference. <i>Expert Systems With Applications</i> , 2005 , 29, 229-242	7.8	27
94	A BCM theory of meta-plasticity for online self-reorganizing fuzzy-associative learning. <i>IEEE Transactions on Neural Networks</i> , 2010 , 21, 985-1003		25
93	Novel Self-Organizing Takagi Sugeno Kang Fuzzy Neural Networks Based on ART-like Clustering. <i>Neural Processing Letters</i> , 2004 , 20, 39-51	2.4	25
92	GSETSK: a generic self-evolving TSK fuzzy neural network with a novel Hebbian-based rule reduction approach. <i>Applied Soft Computing Journal</i> , 2015 , 35, 29-42	7.5	24
91	Object Detection in a Maritime Environment: Performance Evaluation of Background Subtraction Methods. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 1787-1802	6.1	23
90	MCES: a novel Monte Carlo evaluative selection approach for objective feature selections. <i>IEEE Transactions on Neural Networks</i> , 2007 , 18, 431-48		23
89	A novel blood glucose regulation using TSK0-FCMAC: a fuzzy CMAC based on the zero-ordered TSK fuzzy inference scheme. <i>IEEE Transactions on Neural Networks</i> , 2009 , 20, 856-71		22
88	HebbR2-Taffic: A novel application of neuro-fuzzy network for visual based traffic monitoring system. <i>Expert Systems With Applications</i> , 2009 , 36, 6343-6356	7.8	22
87	A novel self-organizing fuzzy rule-based system for modelling traffic flow behaviour. <i>Expert Systems With Applications</i> , 2009 , 36, 12167-12178	7.8	20
86	PSECMAC: a novel self-organizing multiresolution associative memory architecture. <i>IEEE Transactions on Neural Networks</i> , 2008 , 19, 689-712		19
85	RLDDE: A novel reinforcement learning-based dimension and delay estimator for neural networks in time series prediction. <i>Neurocomputing</i> , 2007 , 70, 1331-1341	5.4	19
84	Hierarchically clustered adaptive quantization CMAC and its learning convergence. <i>IEEE Transactions on Neural Networks</i> , 2007 , 18, 1658-82		19
83	Structure and learning algorithms of a nonsingleton input fuzzy neural network based on the approximate analogical reasoning schema. <i>Fuzzy Sets and Systems</i> , 2006 , 157, 1814-1831	3.7	19
82	Improved MCMAC with momentum, neighborhood, and averaged trapezoidal output. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2000 , 30, 491-500		19

81	ieRSPOP: A novel incremental rough set-based pseudo outer-product with ensemble learning. <i>Applied Soft Computing Journal</i> , 2016 , 46, 170-186	7.5	19
80	A novel recurrent neural network-based prediction system for option trading and hedging. <i>Applied Intelligence</i> , 2008 , 29, 138-151	4.9	18
79	GenSoFNN-Yager: A novel brain-inspired generic self-organizing neuro-fuzzy system realizing Yager inference. <i>Expert Systems With Applications</i> , 2008 , 35, 1825-1840	7.8	17
78	R-POPTVR: a novel reinforcement-based POPTVR fuzzy neural network for pattern classification. <i>IEEE Transactions on Neural Networks</i> , 2009 , 20, 1740-55		16
77	Maximizing winning trades using a novel RSPOP fuzzy neural network intelligent stock trading system. <i>Applied Intelligence</i> , 2008 , 29, 116-128	4.9	16
76	Rainfall-runoff modelling using a self-reliant fuzzy inference network with flexible structure. <i>Journal of Hydrology</i> , 2018 , 564, 1179-1193	6	15
75	A synergy of econometrics and computational methods (GARCH-RNFS) for volatility forecasting 2010 ,		15
74	MuSCoWERT: multi-scale consistence of weighted edge Radon transform for horizon detection in maritime images. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016 , 33, 2491-2500	1.8	15
73	A novel neuro-cognitive approach to modeling traffic control and flow based on fuzzy neural techniques. <i>Expert Systems With Applications</i> , 2009 , 36, 4788-4803	7.8	14
72	Reinforcement learning combined with a fuzzy adaptive learning control network (FALCON-R) for pattern classification. <i>Pattern Recognition</i> , 2005 , 38, 513-526	7.7	14
71	A parameter independent line fitting method 2011 ,		13
70	A novel brain-inspired neural cognitive approach to SARS thermal image analysis. <i>Expert Systems With Applications</i> , 2010 , 37, 3040-3054	7.8	13
69	DCT-Yager FNN: a novel Yager-based fuzzy neural network with the discrete clustering technique. <i>IEEE Transactions on Neural Networks</i> , 2008 , 19, 625-44		13
68	Maximum reward reinforcement learning: A non-cumulative reward criterion. <i>Expert Systems With Applications</i> , 2006 , 31, 351-359	7.8	13
67	PREDICTING THE IMPACT OF ANTICIPATORY ACTION ON U.S. STOCK MARKET AN EVENT STUDY USING ANFIS (A NEURAL FUZZY MODEL). <i>Computational Intelligence</i> , 2007 , 23, 117-141	2.5	12
66	Ovarian cancer diagnosis using a hybrid intelligent system with simple yet convincing rules. <i>Applied Soft Computing Journal</i> , 2014 , 20, 25-39	7.5	11
65	ARPOP: an appetitive reward-based pseudo-outer-product neural fuzzy inference system inspired from the operant conditioning of feeding behavior in <i>Aplysia</i> . <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2012 , 23, 317-29	10.3	11
64	Robust EEG channel selection across sessions in brain-computer interface involving stroke patients 2012 ,		11

63	Omitting the intra-session calibration in EEG-based brain computer interface used for stroke rehabilitation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 4124-7</i>	0.9	10
62	RFCMAC: A novel reduced localized neuro-fuzzy system approach to knowledge extraction. <i>Expert Systems With Applications, 2011, 38, 12066-12084</i>	7.8	10
61	A nature inspired YingYang approach for intelligent decision support in bank solvency analysis. <i>Expert Systems With Applications, 2008, 34, 2576-2587</i>	7.8	10
60	MSCM-LiFe: Multi-scale cross modal linear feature for horizon detection in maritime images 2016,		10
59	Sentiment analysis using EEG activities for suicidology. <i>Expert Systems With Applications, 2018, 103, 206-217</i>	7.87	9
58	Mutual information-based optimization of sparse spatio-spectral filters in brain-computer interface. <i>Neural Computing and Applications, 2014, 25, 625-634</i>	4.8	9
57	Fuzzy associative conjuncted maps network. <i>IEEE Transactions on Neural Networks, 2009, 20, 1302-19</i>		9
56	The applicability of Generic Self-Evolving Takagi-Sugeno-Kang neuro-fuzzy model in modeling rainfall-runoff and river routing 2019, 50, 991-1001		8
55	Backward fuzzy rule interpolation with multiple missing values 2013,		8
54	An analysis on driver drowsiness based on reaction time and EEG band power. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 7982-5</i>	0.9	8
53	Stock price prediction using Generic Self-Evolving Takagi-Sugeno-Kang (GSETSK) fuzzy neural network 2010,		8
52	EpiList: An Intelligent Tutoring System Shell for Implicit Development of Generic Cognitive Skills That Support Bottom-Up Knowledge Construction. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2007, 37, 58-71</i>		8
51	Bank failure prediction using an accurate and interpretable neural fuzzy inference system. <i>AI Communications, 2016, 29, 477-495</i>	0.8	8
50	An interpretable neural fuzzy inference system for predictions of underpricing in initial public offerings. <i>Neurocomputing, 2018, 319, 102-117</i>	5.4	8
49	An iterative cross-subject negative-unlabeled learning algorithm for quantifying passive fatigue. <i>Journal of Neural Engineering, 2019, 16, 056013</i>	5	7
48	Neural network modelling of the influence of channelopathies on reflex visual attention. <i>Cognitive Neurodynamics, 2016, 10, 49-72</i>	4.2	7
47	DEB: definite error bounded tangent estimator for digital curves. <i>IEEE Transactions on Image Processing, 2014, 23, 4297-310</i>	8.7	7
46	EpiList II: Closing the Loop in the Development of Generic Cognitive Skills. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 676-685</i>		7

45	Fingerprint Minutia Recognition with Fuzzy Neural Network. <i>Lecture Notes in Computer Science</i> , 2005 , 165-170	0.9	7
44	Type-2 GA-TSK fuzzy neural network 2007 ,		6
43	A foreign exchange portfolio management mechanism based on fuzzy neural networks 2007 ,		6
42	MNFS-FPM: A novel memetic neuro-fuzzy system based financial portfolio management 2007 ,		6
41	DCBAM: A discrete chainable bidirectional associative memory. <i>Pattern Recognition Letters</i> , 1996 , 17, 985-999	4.7	6
40	IT2-GSETSK: An evolving interval Type-II TSK fuzzy neural system for online modeling of noisy data. <i>Neurocomputing</i> , 2020 , 407, 1-11	5.4	5
39	Correlation of reaction time and EEG log bandpower from dry frontal electrodes in a passive fatigue driving simulation experiment. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 2482-2485	0.9	5
38	A novel biologically and psychologically inspired fuzzy decision support system: hierarchical complementary learning. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2008 , 5, 67-79	3	5
37	Dynamic screening of autistic children in various mental states using pattern of connectivity between brain regions. <i>Applied Soft Computing Journal</i> , 2015 , 32, 335-346	7.5	4
36	Are Object Detection Assessment Criteria Ready for Maritime Computer Vision?. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 5295-5304	6.1	4
35	Scale and move transformation-based fuzzy rule interpolation with interval type-2 fuzzy sets 2013 ,		4
34	A Brain Inspired Fuzzy Neuro-predictor for Bank Failure Analysis		4
33	FCMAC-AARS: A Novel FNN Architecture for Stock Market Prediction and Trading		4
32			4
31	Adaptive control of infusion pump for Type-I diabetes control using a self-tuning regulator 2008 ,		3
30	CMAC with Fuzzy Logic Reasoning. <i>Lecture Notes in Computer Science</i> , 2004 , 898-903	0.9	3
29	A Novel Fuzzy Associative Memory Architecture for Stock Market Prediction and Trading. <i>International Journal of Fuzzy System Applications</i> , 2011 , 1, 61-78	0.6	3
28	A Deep Hybrid Fuzzy Neural Hammerstein-Wiener Network for Stock Price Prediction 2020 ,		2

27	A Precise Ellipse Fitting Method for Noisy Data. <i>Lecture Notes in Computer Science</i> , 2012 , 253-260	0.9	2
26	Multi-frequency band common spatial pattern with sparse optimization in Brain-Computer Interface 2012 ,		2
25	An evolving Mamdani-Takagi-Sugeno based neural-fuzzy inference system with improved interpretability-accuracy 2010 ,		2
24	ACPOP: Ambiguity correction-based pseudo-outer-product fuzzy rule identification algorithm 2009 ,		2
23	Application of a hierarchical coevolutionary fuzzy system for financial prediction and trading 2008 ,		2
22	A memory-based reinforcement learning algorithm for partially observable Markovian decision processes 2008 ,		2
21	Neural network model for time series prediction by reinforcement learning		2
20	Digital Modulation Classification using Fuzzy Neural Networks. <i>Studies in Computational Intelligence</i> , 2006 , 101-116	0.8	2
19	An Evolving Type-2 Neural Fuzzy Inference System. <i>Lecture Notes in Computer Science</i> , 2010 , 535-546	0.9	2
18	Trading model: Self reorganizing Fuzzy Associative Machine - forecasted MACD-Histogram (SeroFAM-fMACDH) 2015 ,		1
17	Traffic prediction using a Generic Self-Evolving Takagi-Sugeno-Kang (GSETSK) fuzzy neural network 2012 ,		1
16	HiCEFS DA hierarchical coevolutionary approach for the dynamic generation of fuzzy system 2007 ,		1
15	Speech emotion recognition using auditory cortex 2007 ,		1
14	POP-Yager: a novel self-organizing fuzzy neural network based on the Yager inference 2000 ,		1
13	ASE-CMAC for speech enhancement in a vehicular environment 2000 ,		1
12	A Decision Making System Based on Complementary Learning. <i>Intelligent Systems Reference Library</i> , 2010 , 163-179	0.8	1
11	HyFIS-Yager-gDIC: A Self-organizing Hybrid Neural Fuzzy Inference System Realizing Yager Inference. <i>Lecture Notes in Computer Science</i> , 2009 , 1137-1145	0.9	1
10	Dynamic portfolio rebalancing through reinforcement learning. <i>Neural Computing and Applications</i> ,1	4.8	1

9	Brain-Inspired Evolving Neuro-Fuzzy System for Financial Forecasting and Trading of the S&P500 Index. <i>Lecture Notes in Computer Science</i> , 2010 , 601-607	0.9	0
8	Enhancing Decision Support System with Neural Fuzzy Model and Simple Model Visualizations. <i>Intelligent Systems Reference Library</i> , 2010 , 85-116	0.8	0
7	A Non-heuristic Dominant Point Detection Based on Suppression of Break Points. <i>Lecture Notes in Computer Science</i> , 2012 , 269-276	0.9	0
6	Motivation detection using EEG signal analysis by residual-in-residual convolutional neural network. <i>Expert Systems With Applications</i> , 2021 , 184, 115548	7.8	0
5	Reinforcement Based U-Tree: A Novel Approach for Solving POMDP. <i>Intelligent Systems Reference Library</i> , 2010 , 205-232	0.8	
4	Online Self-reorganizing Neuro-fuzzy Reasoning in Interval-Forecasting for Financial Time-Series. <i>Lecture Notes in Computer Science</i> , 2010 , 523-534	0.9	
3	A Novel Fuzzy Associative Memory Architecture for Stock Market Prediction and Trading 2013 , 87-104		
2	RS-HeRR: a rough set-based Hebbian rule reduction neuro-fuzzy system. <i>Neural Computing and Applications</i> , 2021 , 33, 1123-1137	4.8	
1	seMLP: Self-evolving Multi-layer Perceptron in Stock Trading Decision Making. <i>SN Computer Science</i> , 2021 , 2, 1		2