Shang-Ming Zhou

List of Publications by Year
in descending order

73 papers	1,872 citations	257101 24 h-index	264894 42 g-index
75 all docs	75 docs citations	75 times ranked	2043 citing authors

#	Article	IF	Citations
1	Low-level interpretability and high-level interpretability: a unified view of data-driven interpretable fuzzy system modelling. Fuzzy Sets and Systems, 2008, 159, 3091-3131.	1.6	230
2	Classifying mental tasks based on features of higher-order statistics from EEG signals in brainâ€“computer interface. Information Sciences, 2008, 178, 1629-1640.	4.0	187
3	Type-1 OWA operators for aggregating uncertain information with uncertain weights induced by type-2 linguistic quantifiers. Fuzzy Sets and Systems, 2008, 159, 3281-3296.	1.6	149
4	Constructing L2-SVM-Based Fuzzy Classifiers in High-Dimensional Space With Automatic Model Selection and Fuzzy Rule Ranking. IEEE Transactions on Fuzzy Systems, 2007, 15, 398-409.	6.5	72
5	Covariate shift estimation based adaptive ensemble learning for handling non-stationarity in motor imagery related EEG-based brain-computer interface. Neurocomputing, 2019, 343, 154-166.	3.5	72
6	No Increased Rate of Acute Myocardial Infarction or Stroke Among Patients with Ankylosing Spondylitisâ€”A Retrospective Cohort Study Using Routine Data. Seminars in Arthritis and Rheumatism, 2012, 42, 140-145.	1.6	68
7	Defining Disease Phenotypes in Primary Care Electronic Health Records by a Machine Learning Approach: A Case Study in Identifying Rheumatoid Arthritis. PLoS ONE, 2016, 11, e0154515.	1.1	64
8	A new type of recurrent fuzzy neural network for modeling dynamic systems. Knowledge-Based Systems, 2001, 14, 243-251.	4.0	61
9	Guest EditorialIntegrated Healthcare Information Systems. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 515-517.	3.6	61
10	Type-1 OWA methodology to consensus reaching processes in multi-granular linguistic contexts. Knowledge-Based Systems, 2014, 58, 11-22.	4.0	60
11	On Constructing Parsimonious Type-2 Fuzzy Logic Systems via Influential Rule Selection. IEEE Transactions on Fuzzy Systems, 2009, 17, 654-667.	6.5	59
12	Alpha-Level Aggregation: A Practical Approach to Type-1 OWA Operation for Aggregating Uncertain Information with Applications to Breast Cancer Treatments. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 1455-1468.	4.0	57
13	Incidence of Campylobacter and Salmonella Infections Following First Prescription for PPI: A Cohort Study Using Routine Data. American Journal of Gastroenterology, 2013, 108, 1094-1100.	0.2	53
14	Type-Reduction of General Type-2 Fuzzy Sets: The Type-1 OWA Approach. International Journal of Intelligent Systems, 2013, 28, 505-522.	3.3	50
15	A novel Bayesian learning method for information aggregation in modular neural networks. Expert Systems With Applications, 2010, 37, 1071-1074.	4.4	48
16	The effect of physical activity and motivation on function in ankylosing spondylitis: A cohort study. Seminars in Arthritis and Rheumatism, 2013, 42, 619-626.	1.6	48
17	Introduction: Advances in IoT research and applications. Information Systems Frontiers, 2015, 17, 239-241.	4.1	39
18	Classification of accelerometer wear and non-wear events in seconds for monitoring free-living physical activity. BMJ Open, 2015, 5, e007447-e007447.	0.8	34

#	Article	IF	Citations
19	Harnessing the Power of Machine Learning in Dementia Informatics Research: Issues, Opportunities, and Challenges. IEEE Reviews in Biomedical Engineering, 2020, 13, 113-129.	13.1	33
20	Dynamic recurrent neural networks for a hybrid intelligent decision support system for the metallurgical industry. Expert Systems, 1999, 16, 240-247.	2.9	32
21	Incorporation of expert variability into breast cancer treatment recommendation in designing clinical protocol guided fuzzy rule system models. Journal of Biomedical Informatics, 2012, 45, 447-459.	2.5	31
22	Constructing accurate and parsimonious fuzzy models with distinguishable fuzzy sets based on an entropy measure. Fuzzy Sets and Systems, 2006, 157, 1057-1074.	1.6	30
23	Extracting Takagi-Sugeno Fuzzy Rules with Interpretable Submodels via Regularization of Linguistic Modifiers. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1191-1204.	4.0	30
24	Physical Activity and Excess Weight in Pregnancy Have Independent and Unique Effects on Delivery and Perinatal Outcomes. PLoS ONE, 2014, 9, e94532.	1.1	25
25	Mercer Kernel, Fuzzy C-Means Algorithm, and Prototypes of Clusters. Lecture Notes in Computer Science, 2004, , 613-618.	1.0	22
26	A variational approach to intensity approximation for remote sensing images using dynamic neural networks. Expert Systems, 2003, 20, 163-170.	2.9	21
27	Guest Editorial Special Section on Enterprise Systems. IEEE Transactions on Industrial Informatics, 2012, 8, 630-630.	7.2	20
28	On aggregating uncertain information by type-2 OWA operators for soft decision making. International Journal of Intelligent Systems, 2010, 25, n/a-n/a.	3.3	19
29	Modeling Large Sparse Data for Feature Selection: Hospital Admission Predictions of the Dementia Patients Using Primary Care Electronic Health Records. IEEE Journal of Translational Engineering in Health and Medicine, 2021, 9, 1-13.	2.2	16
30	Association of Diabetes in Pregnancy with Child Weight at Birth, Age 12 Months and 5 Years â€“ A Population-Based Electronic Cohort Study. PLoS ONE, 2013, 8, e79803.	1.1	15
31	Interactive image enhancement by fuzzy relaxation. International Journal of Automation and Computing, 2007, 4, 229-235.	4.5	14
32	AN UNSUPERVISED KERNEL BASED FUZZY C-MEANS CLUSTERING ALGORITHM WITH KERNEL NORMALISATION. International Journal of Computational Intelligence and Applications, 2004, 04, 355-373.	0.6	13
33	Using EEG artifacts for BCI applications. , 2014, , .		10
34	Predictors of objectively measured physical activity in 12â€monthâ€old infants: A study of linked birth cohort data with electronic health records. Pediatric Obesity, 2019, 14, e12512.	1.4	9
35	Constructing Compact Takagi-Sugeno Rule Systems: Identification of Complex Interactions in Epidemiological Data. PLoS ONE, 2012, 7, e51468.	1.1	8
36	Combining dynamic neural networks and image sequences in a dynamic model for complex industrial production processes. Expert Systems With Applications, 1999, 16, 13-19.	4.4	7

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37	Compact fuzzy rules induction and feature extraction using SVM with particle swarms for breast cancer treatments. , 2008, , .		7
38	Local Modelling Techniques for Assessing Micro-Level Impacts of Risk Factors in Complex Data: Understanding Health and Socioeconomic Inequalities in Childhood Educational Attainments. PLoS ONE, 2014, 9, e113592.	1.1	7
39	Guest Editorial: Special Section on IoT. IEEE Transactions on Industrial Informatics, 2014, 10, 1413-1416.	7.2	7
40	Mining textual data from primary healthcare records: Automatic identification of patient phenotype cohorts. , 2014, , .		7
41	Improving the interpretability of Takagi-Sugeno fuzzy model by using linguistic modifiers and a multiple objective learning scheme. , 0, , .		6
42	Automatically Generating Natural Language Descriptions of Images by a Deep Hierarchical Framework. IEEE Transactions on Cybernetics, 2022, 52, 7441-7452.	6.2	6
43	Mining Primary Care Electronic Health Records for Automatic Disease Phenotyping: A Transparent Machine Learning Framework. Diagnostics, 2021, 11, 1908.	1.3	6
44	Predicting Hospital Readmission for Campylobacteriosis from Electronic Health Records: A Machine Learning and Text Mining Perspective. Journal of Personalized Medicine, 2022, 12, 86.	1.1	6
45	Fuzziness index driven fuzzy relaxation algorithm and applications to image processing. Annals of Operations Research, 2009, 168, 119-131.	2.6	5
46	A new fuzzy relaxation algorithm for image contrast enhancement. , 0, , .		4
47	A new fuzzy relaxation algorithm for image enhancement. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2006, 10, 181-192.	0.7	4
48	Light source detection for digital images in noisy scenes: a neural network approach. Neural Computing and Applications, 2017, 28, 899-909.	3.2	4
49	Type-1 OWA Operators in Aggregating Multiple Sources of Uncertain Information: Properties and Real-World Applications in Integrated Diagnosis. IEEE Transactions on Fuzzy Systems, 2021, 29, 2112-2121.	6.5	4
50	A Practical Approach to Type-1 OWA Operation for Soft Decision Making. , 2008, , .		4
51	A Novel Approach to Type-2 Fuzzy Addition. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	3
52	Methods of interpretation of a non-stationary fuzzy system for the treatment of breast cancer. , 2009, , .		3
53	Type-1 OWA operator based non-stationary fuzzy decision support systems for breast cancer treatments. , 2009, , .		3
54	Surface Reconstruction Techniques Using Neural Networks to Recover Noisy 3D Scenes. Lecture Notes in Computer Science, 2008, , 857-866.	1.0	3

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55	The Type-1 OWA Operator and the Centroid of Type-2 Fuzzy Sets. , 2011, , .		3
56	Interpretability improvement of input space partitioning by merging fuzzy sets based on an entropy measure. , 0, , .		2
57	New Type-2 Rule Ranking Indices for Designing Parsimonious Interval Type-2 Fuzzy Logic Systems. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	2
58	Type-2 OWA operators - aggregating type-2 fuzzy sets in soft decision making. , 2008, , .		2
59	SVM with entropy regularization and particle swarm optimization for identifying children's health and socioeconomic determinants of education attainments using linked datasets. , 2010, , .		2
60	Fuzzification of the OWA Operators for Aggregating Uncertain Information with Uncertain Weights. Studies in Fuzziness and Soft Computing, 2011, , 91-109.	0.6	2
61	A new approach to fuzzy modeling based on recurrent neural network for fuzzy dynamic systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 5207-5212.	0.4	1
62	Concept Libraries for Repeatable and Reusable Research: Qualitative Study Exploring the Needs of Users. JMIR Human Factors, 2022, 9, e31021.	1.0	1
63	Learning Differentially Expressed Gene Pairs in Microarray Data. Studies in Health Technology and Informatics, 2017, 235, 191-195.	0.2	1
64	A method of information acquisition and processing for modelling complex production processes. , 0, , .		0
65	A Hopfield-type neural network used for remote sensing images with variational principle. , 0, , .		0
66	Inducing linguistic weights for type-1 OWA operators in soft decision making. , 2008, , .		0
67	Construction of parsimonious Takagi-Sugeno fuzzy rule based model in characterising impacts of child health, socioeconomic deprivations on educational outcomes. , 2010, , .		0
68	Information technologies: opportunities and challenges in personal healthcare systems. International Journal of Healthcare Technology and Management, 2012, 13, 345.	0.1	0
69	Response to Fujita et al.. American Journal of Gastroenterology, 2014, 109, 138-139.	0.2	0
70	Comparing feature selection methods for highdimensional imbalanced data: identifying rheumatoid arthritis cohorts from routine data. , 2015, , .		0
71	Patterns of polypharmacy before diagnosis of dementia: a data-driven, retrospective, population-based study with primary care electronic health records. Lancet, The, 2019, 394, S67.	6.3	0
72	Identifying Prenatal and Postnatal Determinants of Infant Growth: A Structural Equation Modelling Based Cohort Analysis. International Journal of Environmental Research and Public Health, 2021, 18, 10265.	1.2	0

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73	Multiple Objective Learning for Constructing Interpretable Takagi-Sugeno Fuzzy Model. , 2006, , 385-403.		0