

# Changjing Shang

## List of Publications by Year in descending order

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90  
papers

1,127  
citations

430874

18  
h-index

501196

28  
g-index

90  
all docs

90  
docs citations

90  
times ranked

646  
citing authors

#	ARTICLE	IF	CITATIONS
1	Decoder Choice Network for Metalearning. IEEE Transactions on Cybernetics, 2023, 53, 3440-3453.	9.5	25
2	Towards utilization of rule base structure to support fuzzy rule interpolation. Expert Systems, 2023, 40, .	4.5	0
3	Semantic-Aware Real-Time Correlation Tracking Framework for UAV Videos. IEEE Transactions on Cybernetics, 2022, 52, 2418-2429.	9.5	28
4	Helper and Equivalent Objectives: Efficient Approach for Constrained Optimization. IEEE Transactions on Cybernetics, 2022, 52, 240-251.	9.5	9
5	Quality Management by Warranty Contract Under Dual Asymmetric Information. IEEE Transactions on Engineering Management, 2022, 69, 1022-1036.	3.5	6
6	Low-Cost Inertial Measurement Unit Calibration With Nonlinear Scale Factors. IEEE Transactions on Industrial Informatics, 2022, 18, 1028-1038.	11.3	15
7	A Developmental Evolutionary Learning Framework for Robotic Chinese Stroke Writing. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 1155-1169.	3.8	1
8	Multi-objective robust optimisation model for MDVRPLS in refined oil distribution. International Journal of Production Research, 2022, 60, 6772-6792.	7.5	96
9	Convolutional LSTM-Based Hierarchical Feature Fusion for Multispectral Pan-Sharpener. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	7
10	Constructing ANFIS With Sparse Data Through Group-Based Rule Interpolation: An Evolutionary Approach. IEEE Transactions on Fuzzy Systems, 2022, 30, 893-907.	9.8	7
11	Rule Base Structure and Influence of Existing Rules: An Initial Investigation. Advances in Intelligent Systems and Computing, 2022, , 264-276.	0.6	0
12	Assessing Significance of Cognitive Assessments for Diagnosing Alzheimer's Disease with Fuzzy-Rough Feature Selection. Advances in Intelligent Systems and Computing, 2022, , 450-462.	0.6	4
13	Fuzzy Rule Interpolation With $K$ -Neighbors for TSK Models. IEEE Transactions on Fuzzy Systems, 2022, 30, 4031-4043.	9.8	6
14	Differential evolution with dynamic combination based mutation operator and two-level parameter adaptation strategy. Expert Systems With Applications, 2022, 192, 116298.	7.6	16
15	A Type 2 wavelet brain emotional learning network with double recurrent loops based controller for nonlinear systems. Knowledge-Based Systems, 2022, 251, 109274.	7.1	2
16	Building a cognizant honeypot for detecting active fingerprinting attacks using dynamic fuzzy rule interpolation. Expert Systems, 2021, 38, e12557.	4.5	2
17	Risk Models for Hazardous Material Transportation Subject to Weight Variation Considerations. IEEE Transactions on Fuzzy Systems, 2021, 29, 2271-2282.	9.8	3
18	Visual-Guided Robotic Object Grasping Using Dual Neural Network Controllers. IEEE Transactions on Industrial Informatics, 2021, 17, 2282-2291.	11.3	16

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19	A Decision Tree-Initialised Neuro-fuzzy Approach for Clinical Decision Support. Artificial Intelligence in Medicine, 2021, 111, 101986.	6.5	40
20	ANFIS Construction With Sparse Data via Group Rule Interpolation. IEEE Transactions on Cybernetics, 2021, 51, 2773-2786.	9.5	17
21	Exclusive lasso-based k-nearest-neighbor classification. Neural Computing and Applications, 2021, 33, 14247-14261.	5.6	2
22	Approximate reasoning with fuzzy rule interpolation: background and recent advances. Artificial Intelligence Review, 2021, 54, 4543-4590.	15.7	19
23	Fuzzy Rule Interpolation with a Transformed Rule Base. , 2021, , .		0
24	Towards Rule-ranking Based Fuzzy Rule Interpolation. , 2021, , .		0
25	Fuzzy Knowledge-Based Prediction Through Weighted Rule Interpolation. IEEE Transactions on Cybernetics, 2020, 50, 4508-4517.	9.5	20
26	Urban hazmat transportation with multi-factor. Soft Computing, 2020, 24, 6307-6328.	3.6	3
27	Type-2 Fuzzy Hybrid Controller Network for Robotic Systems. IEEE Transactions on Cybernetics, 2020, 50, 3778-3792.	9.5	42
28	Interpolation With Just Two Nearest Neighboring Weighted Fuzzy Rules. IEEE Transactions on Fuzzy Systems, 2020, 28, 2255-2262.	9.8	21
29	A New Approach for Transformation-Based Fuzzy Rule Interpolation. IEEE Transactions on Fuzzy Systems, 2020, 28, 3330-3344.	9.8	39
30	Interpretable mammographic mass classification with fuzzy interpolative reasoning. Knowledge-Based Systems, 2020, 191, 105279.	7.1	24
31	A Novel Self-Organizing Emotional CMAC Network for Robotic Control. , 2020, , .		5
32	D-FRI-Honeypot: A Secure Sting Operation for Hacking the Hackers Using Dynamic Fuzzy Rule Interpolation. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, , 1-15.	4.9	11
33	Image Super Resolution with Sparse Data Using ANFIS Interpolation. , 2020, , .		3
34	Modeling and Solving a Multi-Period Inventory Fulfilling and Routing Problem for Hazardous Materials. Journal of Systems Science and Complexity, 2020, 33, 760-782.	2.8	9
35	Single Frame Image Super Resolution Using ANFIS Interpolation: An Initial Experiment-Based Approach. Advances in Intelligent Systems and Computing, 2020, , 27-40.	0.6	2
36	Sentiment Classification of Drug Reviews Using Fuzzy-rough Feature Selection. , 2019, , .		17

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37	A Robotic Writing Frameworkâ€“Learning Human Aesthetic Preferences via Humanâ€“Machine Interactions. IEEE Access, 2019, 7, 144043-144053.	4.2	6
38	Helper and equivalent objective different evolution for constrained optimisation. , 2019, , .		5
39	Multi-criterion mammographic risk analysis supported with multi-label fuzzy-rough feature selection. Artificial Intelligence in Medicine, 2019, 100, 101722.	6.5	17
40	A recurrent emotional CMAC neural network controller for vision-based mobile robots. Neurocomputing, 2019, 334, 227-238.	5.9	33
41	Deadline-based incentive contracts in project management with cost salience. Fuzzy Optimization and Decision Making, 2019, 18, 451-473.	5.5	9
42	Reliable location allocation for hazardous materials. Information Sciences, 2019, 501, 688-707.	6.9	10
43	An Improved Fuzzy Brain Emotional Learning Model Network Controller for Humanoid Robots. Frontiers in Neurorobotics, 2019, 13, 2.	2.8	23
44	Robotic Chinese Calligraphy with Human Preference. , 2019, , .		3
45	D-FRI-CiscoFirewall: Dynamic Fuzzy Rule Interpolation for Cisco ASA Firewall. , 2019, , .		6
46	Effective Diagnosis of Diabetes with a Decision Tree-Initialised Neuro-fuzzy Approach. Advances in Intelligent Systems and Computing, 2019, , 227-239.	0.6	4
47	Multi-objective location-routing model for hazardous material logistics with traffic restriction constraint in inter-city roads. Computers and Industrial Engineering, 2019, 128, 861-876.	6.3	68
48	Induction of accurate and interpretable fuzzy rules from preliminary crisp representation. Knowledge-Based Systems, 2018, 146, 152-166.	7.1	53
49	Improving fuzzy rule interpolation performance with information gain-guided antecedent weighting. Soft Computing, 2018, 22, 3125-3139.	3.6	3
50	Fuzzy Rule Based Interpolative Reasoning Supported by Attribute Ranking. IEEE Transactions on Fuzzy Systems, 2018, 26, 2758-2773.	9.8	37
51	Enhanced Robotic Handâ€“Eye Coordination Inspired From Human-Like Behavioral Patterns. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 384-396.	3.8	10
52	Multi-functional nearest-neighbour classification. Soft Computing, 2018, 22, 2717-2730.	3.6	12
53	Inter-variable correlation prediction with fuzzy connected-triples. Soft Computing, 2018, 22, 7059-7072.	3.6	0
54	Feature Ranking-Guided Fuzzy Rule Interpolation for Mammographic Mass Shape Classification. , 2018, , .		1

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55	Vigilant Dynamic Honeypot Assisted by Dynamic Fuzzy Rule Interpolation. , 2018, , .		11
56	Towards Deep Reinforcement Learning Based Chinese Calligraphy Robot. , 2018, , .		8
57	Towards a Robotic Chinese Calligraphy Writing Framework. , 2018, , .		5
58	Generative Adversarial Nets in Robotic Chinese Calligraphy. , 2018, , .		23
59	Weighted Fuzzy Rules Optimised by Particle Swarm for Network Intrusion Detection. , 2018, , .		6
60	Timetable optimization for single bus line involving fuzzy travel time. Soft Computing, 2018, 22, 6981-6994.	3.6	11
61	A minimum-cost model for bus timetabling problem. Soft Computing, 2018, 22, 6995-7003.	3.6	0
62	Fuzzy Connected-Triple for Predicting Inter-variable Correlation. Advances in Intelligent Systems and Computing, 2018, , 49-62.	0.6	0
63	Feature ranking-guided fuzzy rule interpolation. , 2017, , .		4
64	A New Multi-objective Model for Constrained Optimisation. Advances in Intelligent Systems and Computing, 2017, , 71-85.	0.6	5
65	Exploiting Data Reliability and Fuzzy Clustering for Journal Ranking. IEEE Transactions on Fuzzy Systems, 2017, 25, 1306-1319.	9.8	31
66	Single frame image super resolution via learning multiple ANFIS mappings. , 2017, , .		6
67	A new approach to exploring rough set boundary region for feature selection. , 2017, , .		0
68	Reliability-guided fuzzy classifier ensemble. , 2017, , .		3
69	Guiding Fuzzy Rule Interpolation with Information Gains. Advances in Intelligent Systems and Computing, 2017, , 165-183.	0.6	2
70	Fuzzy rule weight modification with particle swarm optimisation. Soft Computing, 2016, 20, 2923-2937.	3.6	27
71	Interpolation aided fuzzy image classification. , 2015, , .		0
72	Combining Newton interpolation and deep learning for image classification. Electronics Letters, 2015, 51, 40-42.	1.0	5

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73	Kernel-based Fuzzy-rough Nearest-neighbour Classification for Mammographic Risk Analysis. International Journal of Fuzzy Systems, 2015, 17, 471-483.	4.0	15
74	Interpolating Deep Spatio-Temporal Inference Network features for image classification. , 2014, , .		0
75	Refinement of fuzzy rule weights with particle swarm optimisation. , 2014, , .		2
76	Nearest neighbour-guided induced OWA and its application to journal ranking. , 2014, , .		0
77	Link-based approach for bibliometric journal ranking. Soft Computing, 2013, 17, 2399-2410.	3.6	15
78	Interpolating destin features for image classification. , 2013, , .		1
79	OWA aggregation of fuzzy similarity relations for journal ranking. , 2013, , .		4
80	Modified gradient-based learning for local coupled feedforward neural networks with Gaussian basis function. Neural Computing and Applications, 2013, 22, 379-394.	5.6	1
81	Support vector machine-based classification of rock texture images aided by efficient feature selection. , 2012, , .		15
82	Kernel-based fuzzy-rough nearest neighbour classification. , 2011, , .		13
83	Facilitating efficient Mars terrain image classification with fuzzy-rough feature selection. International Journal of Hybrid Intelligent Systems, 2011, 8, 3-13.	1.2	14
84	Extending Data Reliability Measure to a Filter Approach for Soft Subspace Clustering. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1705-1714.	5.0	47
85	Combining support vector machines and information gain ranking for classification of mars McMurdo panorama images. , 2010, , .		9
86	Effective Feature Selection for Mars McMurdo Terrain Image Classification. , 2009, , .		4
87	Aiding neural network based image classification with fuzzy-rough feature selection. , 2008, , .		0
88	Modelling magnetic material images with simultaneous autoregressions. , 1999, , .		1
89	Adapting CMAC neural networks with constrained LMS algorithm for efficient torque ripple reduction in switched reluctance motors. IEEE Transactions on Control Systems Technology, 1999, 7, 401-413.	5.2	22
90	Sparse data-based image super-resolution with ANFIS interpolation. Neural Computing and Applications, 0, , 1.	5.6	0