Changjing Shang

List of Publications by Year
in descending order

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	Multi-objective robust optimisation model for MDVRPLS in refined oil distribution. International Journal of Production Research, 2022, 60, 6772-6792.	7.5	96
2	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
3	Induction of accurate and interpretable fuzzy rules from preliminary crisp representation. Knowledge-Based Systems, 2018, 146, 152-166.	7.1	53
4	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
5	Type-2 Fuzzy Hybrid Controller Network for Robotic Systems. IEEE Transactions on Cybernetics, 2020, 50, 3778-3792.	9.5	42
6	A Decision Tree-Initialised Neuro-fuzzy Approach for Clinical Decision Support. Artificial Intelligence in Medicine, 2021, 111, 101986.	6.5	40
7	A New Approach for Transformation-Based Fuzzy Rule Interpolation. IEEE Transactions on Fuzzy Systems, 2020, 28, 3330-3344.	9.8	39
8	Fuzzy Rule Based Interpolative Reasoning Supported by Attribute Ranking. IEEE Transactions on Fuzzy Systems, 2018, 26, 2758-2773.	9.8	37
9	A recurrent emotional CMAC neural network controller for vision-based mobile robots. Neurocomputing, 2019, 334, 227-238.	5.9	33
10	Exploiting Data Reliability and Fuzzy Clustering for Journal Ranking. IEEE Transactions on Fuzzy Systems, 2017, 25, 1306-1319.	9.8	31
11	Semantic-Aware Real-Time Correlation Tracking Framework for UAV Videos. IEEE Transactions on Cybernetics, 2022, 52, 2418-2429.	9.5	28
12	Fuzzy rule weight modification with particle swarm optimisation. Soft Computing, 2016, 20, 2923-2937.	3.6	27
13	Decoder Choice Network for Metalearning. IEEE Transactions on Cybernetics, 2023, 53, 3440-3453.	9.5	25
14	Interpretable mammographic mass classification with fuzzy interpolative reasoning. Knowledge-Based Systems, 2020, 191, 105279.	7.1	24
15	Generative Adversarial Nets in Robotic Chinese Calligraphy. , 2018, , .		23
16	An Improved Fuzzy Brain Emotional Learning Model Network Controller for Humanoid Robots. Frontiers in Neurorobotics, 2019, 13, 2.	2.8	23
17	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
18	Interpolation With Just Two Nearest Neighboring Weighted Fuzzy Rules. IEEE Transactions on Fuzzy Systems, 2020, 28, 2255-2262.	9.8	21

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19	Fuzzy Knowledge-Based Prediction Through Weighted Rule Interpolation. IEEE Transactions on Cybernetics, 2020, 50, 4508-4517.	9.5	20
20	Approximate reasoning with fuzzy rule interpolation: background and recent advances. Artificial Intelligence Review, 2021, 54, 4543-4590.	15.7	19
21	Sentiment Classification of Drug Reviews Using Fuzzy-rough Feature Selection. , 2019, , .		17
22	Multi-criterion mammographic risk analysis supported with multi-label fuzzy-rough feature selection. Artificial Intelligence in Medicine, 2019, 100, 101722.	6.5	17
23	ANFIS Construction With Sparse Data via Group Rule Interpolation. IEEE Transactions on Cybernetics, 2021, 51, 2773-2786.	9.5	17
24	Visual-Guided Robotic Object Grasping Using Dual Neural Network Controllers. IEEE Transactions on Industrial Informatics, 2021, 17, 2282-2291.	11.3	16
25	Differential evolution with dynamic combination based mutation operator and two-level parameter adaptation strategy. Expert Systems With Applications, 2022, 192, 116298.	7.6	16
26	Support vector machine-based classification of rock texture images aided by efficient feature selection. , 2012, , .		15
27	Link-based approach for bibliometric journal ranking. Soft Computing, 2013, 17, 2399-2410.	3.6	15
28	Kernel-based Fuzzy-rough Nearest-neighbour Classification for Mammographic Risk Analysis. International Journal of Fuzzy Systems, 2015, 17, 471-483.	4.0	15
29	Low-Cost Inertial Measurement Unit Calibration With Nonlinear Scale Factors. IEEE Transactions on Industrial Informatics, 2022, 18, 1028-1038.	11.3	15
30	Facilitating efficient Mars terrain image classification with fuzzy-rough feature selection. International Journal of Hybrid Intelligent Systems, 2011, 8, 3-13.	1.2	14
31	Kernel-based fuzzy-rough nearest neighbour classification. , 2011, , .		13
32	Multi-functional nearest-neighbour classification. Soft Computing, 2018, 22, 2717-2730.	3.6	12
33	Vigilant Dynamic Honeypot Assisted by Dynamic Fuzzy Rule Interpolation. , 2018, , .		11
34	Timetable optimization for single bus line involving fuzzy travel time. Soft Computing, 2018, 22, 6981-6994.	3.6	11
35	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
36	Enhanced Robotic Hand–Eye Coordination Inspired From Human-Like Behavioral Patterns. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 384-396.	3.8	10

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37	Reliable location allocation for hazardous materials. Information Sciences, 2019, 501, 688-707.	6.9	10
38	Combining support vector machines and information gain ranking for classification of mars McMurdo panorama images. , 2010, , .		9
39	Deadline-based incentive contracts in project management with cost salience. Fuzzy Optimization and Decision Making, 2019, 18, 451-473.	5.5	9
40	Helper and Equivalent Objectives: Efficient Approach for Constrained Optimization. IEEE Transactions on Cybernetics, 2022, 52, 240-251.	9.5	9
41	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
42	Towards Deep Reinforcement Learning Based Chinese Calligraphy Robot. , 2018, , .		8
43	Convolutional LSTM-Based Hierarchical Feature Fusion for Multispectral Pan-Sharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	7
44	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
45	Single frame image super resolution via learning multiple ANFIS mappings. , 2017, , .		6
46	Weighted Fuzzy Rules Optimised by Particle Swarm for Network Intrusion Detection. , 2018, , .		6
47	A Robotic Writing Framework–Learning Human Aesthetic Preferences via Human–Machine Interactions. IEEE Access, 2019, 7, 144043-144053.	4.2	6
48	D-FRI-CiscoFirewall: Dynamic Fuzzy Rule Interpolation for Cisco ASA Firewall. , 2019, , .		6
49	Quality Management by Warranty Contract Under Dual Asymmetric Information. IEEE Transactions on Engineering Management, 2022, 69, 1022-1036.	3.5	6
50	Fuzzy Rule Interpolation With K-Neighbors for TSK Models. IEEE Transactions on Fuzzy Systems, 2022, 30, 4031-4043.	9.8	6
51	Combining Newton interpolation and deep learning for image classification. Electronics Letters, 2015, 51, 40-42.	1.0	5
52	A New Multi-objective Model for Constrained Optimisation. Advances in Intelligent Systems and Computing, 2017, , 71-85.	0.6	5
53	Towards a Robotic Chinese Calligraphy Writing Framework. , 2018, , .		5
54	Helper and equivalent objective different evolution for constrained optimisation. , 2019, , .		5

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55	A Novel Self-Organizing Emotional CMAC Network for Robotic Control. , 2020, , .		5
56	Effective Feature Selection for Mars McMurdo Terrain Image Classification. , 2009, , .		4
57	OWA aggregation of fuzzy similarity relations for journal ranking. , 2013, , .		4
58	Feature ranking-guided fuzzy rule interpolation. , 2017, , .		4
59	Effective Diagnosis of Diabetes with a Decision Tree-Initialised Neuro-fuzzy Approach. Advances in Intelligent Systems and Computing, 2019, , 227-239.	0.6	4
60	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
61	Reliability-guided fuzzy classifier ensemble. , 2017, , .		3
62	Improving fuzzy rule interpolation performance with information gain-guided antecedent weighting. Soft Computing, 2018, 22, 3125-3139.	3.6	3
63	Robotic Chinese Calligraphy with Human Preference. , 2019, , .		3
64	Urban hazmat transportation with multi-factor. Soft Computing, 2020, 24, 6307-6328.	3.6	3
65	Image Super Resolution with Sparse Data Using ANFIS Interpolation. , 2020, , .		3
66	Risk Models for Hazardous Material Transportation Subject to Weight Variation Considerations. IEEE Transactions on Fuzzy Systems, 2021, 29, 2271-2282.	9.8	3
67	Refinement of fuzzy rule weights with particle swarm optimisation. , 2014, , .		2
68	Building a cognizant honeypot for detecting active fingerprinting attacks using dynamic fuzzy rule interpolation. Expert Systems, 2021, 38, e12557.	4.5	2
69	Exclusive lasso-based k-nearest-neighbor classification. Neural Computing and Applications, 2021, 33, 14247-14261.	5.6	2
70	Guiding Fuzzy Rule Interpolation with Information Gains. Advances in Intelligent Systems and Computing, 2017, , 165-183.	0.6	2
71	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
72	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

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73	Modelling magnetic material images with simultaneous autoregressions. , 1999, , .		1
74	Interpolating destin features for image classification. , 2013, , .		1
75	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
76	Feature Ranking-Guided Fuzzy Rule Interpolation for Mammographic Mass Shape Classification. , 2018, , .		1
77	A Developmental Evolutionary Learning Framework for Robotic Chinese Stroke Writing. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 1155-1169.	3.8	1
78	Aiding neural network based image classification with fuzzy-rough feature selection. , 2008, , .		0
79	Interpolating Deep Spatio-Temporal Inference Network features for image classification. , 2014, , .		0
80	Nearest neighbour-guided induced OWA and its application to journal ranking. , 2014, , .		0
81	Interpolation aided fuzzy image classification. , 2015, , .		0
82	A new approach to exploring rough set boundary region for feature selection. , 2017, , .		0
83	Inter-variable correlation prediction with fuzzy connected-triples. Soft Computing, 2018, 22, 7059-7072.	3.6	0
84	A minimum-cost model for bus timetabling problem. Soft Computing, 2018, 22, 6995-7003.	3.6	0
85	Fuzzy Rule Interpolation with a Transformed Rule Base. , 2021, , .		0
86	Towards Rule-ranking Based Fuzzy Rule Interpolation. , 2021, , .		0
87	Sparse data-based image super-resolution with ANFIS interpolation. Neural Computing and Applications, 0, , 1.	5.6	0
88	Fuzzy Connected-Triple for Predicting Inter-variable Correlation. Advances in Intelligent Systems and Computing, 2018, , 49-62.	0.6	0
89	Rule Base Structure and Influence of Existing Rules: An Initial Investigation. Advances in Intelligent Systems and Computing, 2022, , 264-276.	0.6	0
90	Towards utilization of rule base structure to support fuzzy rule interpolation. Expert Systems, 2023, 40, .	4.5	0