Longzhi Yang

List of Publications by Year
in descending order

118 papers	1,782 citations	331538 21 h-index	414303 32 g-index
121 all docs	121 docs citations	121 times ranked	960 citing authors

#	Article	IF	Citations
1	Adaptive Fuzzy Interpolation. IEEE Transactions on Fuzzy Systems, 2011, 19, 1107-1126.	6.5	107
2	Generalized Adaptive Fuzzy Rule Interpolation. IEEE Transactions on Fuzzy Systems, 2017, 25, 839-853.	6.5	71
3	Closed form fuzzy interpolation. Fuzzy Sets and Systems, 2013, 225, 1-22.	1.6	65
4	A framework of blockchain-based secure and privacy-preserving E-government system. Wireless Networks, 2023, 29, 1005-1015.	2.0	57
5	Privacy and Security Aspects of E-Government in Smart Cities. , 2019, , 89-102.		49
6	An extended Takagi–Sugeno–Kang inference system (TSK+) with fuzzy interpolation and its rule base generation. Soft Computing, 2018, 22, 3155-3170.	2.1	48
7	A Deep-Learning-Driven Light-Weight Phishing Detection Sensor. Sensors, 2019, 19, 4258.	2.1	46
8	A robot calligraphy system: From simple to complex writing by human gestures. Engineering Applications of Artificial Intelligence, 2017, 59, 1-14.	4.3	44
9	Type-2 Fuzzy Hybrid Controller Network for Robotic Systems. IEEE Transactions on Cybernetics, 2020, 50, 3778-3792.	6.2	42
10	Dilated causal convolution with multi-head self attention for sensor human activity recognition. Neural Computing and Applications, 2021, 33, 13705-13722.	3.2	42
11	An Early Diagnosis of Oral Cancer based on Three-Dimensional Convolutional Neural Networks. IEEE Access, 2019, 7, 158603-158611.	2.6	39
12	Self-Organizing Brain Emotional Learning Controller Network for Intelligent Control System of Mobile Robots. IEEE Access, 2018, 6, 59096-59108.	2.6	38
13	Generalisation of Scale and Move Transformation-Based Fuzzy Interpolation. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2011, 15, 288-298.	0.5	38
14	Use of human gestures for controlling a mobile robot via adaptive CMAC network and fuzzy logic controller. Neurocomputing, 2018, 282, 218-231.	3.5	34
15	A recurrent emotional CMAC neural network controller for vision-based mobile robots. Neurocomputing, 2019, 334, 227-238.	3.5	33
16	Joint Learning of Temporal Models to Handle Imbalanced Data for Human Activity Recognition. Applied Sciences (Switzerland), 2020, 10, 5293.	1.3	27
17	Decoder Choice Network for Metalearning. IEEE Transactions on Cybernetics, 2023, 53, 3440-3453.	6.2	25
18	Towards adaptive interpolative reasoning. , 2009, , .		24

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19	Towards a Fuzzy Expert System on Toxicological Data Quality Assessment. Molecular Informatics, 2013, 32, 65-78.	1.4	24
20	Gaze-Informed Egocentric Action Recognition for Memory Aid Systems. IEEE Access, 2018, 6, 12894-12904.	2.6	24
21	Grooming Detection using Fuzzy-Rough Feature Selection and Text Classification. , 2018, , .		24
22	Towards sparse rule base generation for fuzzy rule interpolation. , 2016, , .		23
23	Intrusion detection system by fuzzy interpolation. , 2017, , .		23
24	Generative Adversarial Nets in Robotic Chinese Calligraphy. , 2018, , .		23
25	An Improved Fuzzy Brain Emotional Learning Model Network Controller for Humanoid Robots. Frontiers in Neurorobotics, 2019, 13, 2.	1.6	23
26	Machine Learning Algorithms for Network Intrusion Detection. Intelligent Systems Reference Library, 2019, , 151-179.	1.0	23
27	Honeypots That Bite Back: A Fuzzy Technique for Identifying and Inhibiting Fingerprinting Attacks on Low Interaction Honeypots. , 2018, , .		22
28	Use of Automatic Chinese Character Decomposition and Human Gestures for Chinese Calligraphy Robots. IEEE Transactions on Human-Machine Systems, 2019, 49, 47-58.	2.5	22
29	A New Dynamic Path Planning Approach for Unmanned Aerial Vehicles. Complexity, 2018, 2018, 1-17.	0.9	20
30	IoT-Based Android Malware Detection Using Graph Neural Network With Adversarial Defense. IEEE Internet of Things Journal, 2023, 10, 8432-8444.	5.5	20
31	Dynamic QoS solution for enterprise networks using TSK fuzzy interpolation. , 2017, , .		19
32	Dendritic Cell Algorithm with Optimised Parameters Using Genetic Algorithm. , 2018, , .		19
33	A data-driven robotic Chinese calligraphy system using convolutional auto-encoder and differential evolution. Knowledge-Based Systems, 2019, 182, 104802.	4.0	19
34	Personalised Control of Robotic Ankle Exoskeleton Through Experience-Based Adaptive Fuzzy Inference. IEEE Access, 2019, 7, 72221-72233.	2.6	19
35	Cyberthreat Hunting - Part 1: Triaging Ransomware using Fuzzy Hashing, Import Hashing and YARA Rules. , 2019, , .		19
36	Fuzzy Logic Aided Intelligent Threat Detection in Cisco Adaptive Security Appliance 5500 Series Firewalls. , 2018, , .		18

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37	Experience-based rule base generation and adaptation for fuzzy interpolation. , 2016, , .		17
38	Multi-criterion mammographic risk analysis supported with multi-label fuzzy-rough feature selection. Artificial Intelligence in Medicine, 2019, 100, 101722.	3.8	17
39	Towards model governance in predictive toxicology. International Journal of Information Management, 2013, 33, 567-582.	10.5	16
40	Cyberthreat Hunting - Part 2: Tracking Ransomware Threat Actors using Fuzzy Hashing and Fuzzy C-Means Clustering. , 2019, , .		16
41	Visual-Guided Robotic Object Grasping Using Dual Neural Network Controllers. IEEE Transactions on Industrial Informatics, 2021, 17, 2282-2291.	7.2	16
42	Low-Cost Inertial Measurement Unit Calibration With Nonlinear Scale Factors. IEEE Transactions on Industrial Informatics, 2022, 18, 1028-1038.	7.2	15
43	Adaptive fuzzy interpolation and extrapolation with multiple-antecedent rules. , 2010, , .		14
44	Histogram of Fuzzy Local Spatio-Temporal Descriptors for Video Action Recognition. IEEE Transactions on Industrial Informatics, 2020, 16, 4059-4067.	7.2	14
45	Integration of an actor-critic model and generative adversarial networks for a Chinese calligraphy robot. Neurocomputing, 2020, 388, 12-23.	3.5	14
46	TSK Inference with Sparse Rule Bases. Advances in Intelligent Systems and Computing, 2017, , 107-123.	0.5	14
47	Closed form fuzzy interpolation with interval type-2 fuzzy sets. , 2014, , .		13
48	Augmented YARA Rules Fused With Fuzzy Hashing in Ransomware Triaging. , 2019, , .		13
49	Embedded YARA rules: strengthening YARA rules utilising fuzzy hashing and fuzzy rules for malware analysis. Complex & Intelligent Systems, 2021, 7, 687-702.	4.0	13
50	Adaptive fuzzy interpolation with uncertain observations and rule base. , 2011, , .		12
51	Adaptive fuzzy interpolation with prioritized component candidates. , 2011, , .		12
52	Multi-layer Lattice Model for Real-Time Dynamic Character Deformation. Computer Graphics Forum, 2015, 34, 99-109.	1.8	12
53	Posture-based and action-based graphs for boxing skill visualization. Computers and Graphics, 2017, 69, 104-115.	1.4	12
54	GANCCRobot: Generative adversarial nets based chinese calligraphy robot. Information Sciences, 2020, 516, 474-490.	4.0	12

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55	A computational intelligence enabled honeypot for chasing ghosts in the wires. Complex & Intelligent Systems, 2021, 7, 477-494.	4.0	12
56	Fuzzy system approaches to negotiation pricing decision support. Journal of Intelligent and Fuzzy Systems, 2015, 29, 685-699.	0.8	11
57	Towards Big data Governance in Cybersecurity. Data-Enabled Discovery and Applications, 2019, 3, 1.	1.2	11
58	Interaction-Based Human Activity Comparison. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2620-2633.	2.9	11
59	Enhanced Robotic Hand–Eye Coordination Inspired From Human-Like Behavioral Patterns. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 384-396.	2.6	10
60	Dendritic Cell Algorithm with Fuzzy Inference System for Input Signal Generation. Advances in Intelligent Systems and Computing, 2019, , 203-214.	0.5	10
61	Artificial Human Balance Control by Calf Muscle Activation Modelling. IEEE Access, 2020, 8, 86732-86744.	2.6	10
62	Fuzzy Interpolation Systems and Applications. , 0, , .		9
63	A Revised Dendritic Cell Algorithm Using K-Means Clustering. , 2018, , .		8
64	Towards Deep Reinforcement Learning Based Chinese Calligraphy Robot. , 2018, , .		8
65	Job shop planning and scheduling for manufacturers with manual operations. Expert Systems, 2018, 38, e12315.	2.9	8
66	Intelligent, smart and scalable cyber-physical systems. Journal of Intelligent and Fuzzy Systems, 2019, 36, 3935-3943.	0.8	8
67	Curvature-based sparse rule base generation for fuzzy rule interpolation. Journal of Intelligent and Fuzzy Systems, 2019, 36, 4201-4214.	0.8	8
68	Dendritic Cell Algorithm Enhancement Using Fuzzy Inference System for Network Intrusion Detection. , 2019, , .		8
69	Embedding Fuzzy Rules with YARA Rules for Performance Optimisation of Malware Analysis. , 2020, , .		8
70	Modality independent adversarial network for generalized zero shot image classification. Neural Networks, 2021, 134, 11-22.	3.3	8
71	A recurrent wavelet-based brain emotional learning network controller for nonlinear systems. Soft Computing, 2022, 26, 3013-3028.	2.1	8
72	A Fall Detection/Recognition System and an Empirical Study of Gradient-Based Feature Extraction Approaches. Advances in Intelligent Systems and Computing, 2018, , 276-289.	0.5	7

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73	Interval Type-2 TSK+ Fuzzy Inference System. , 2018, , .		7
74	Adaptive Activation Function Generation for Artificial Neural Networks through Fuzzy Inference with Application in Grooming Text Categorisation. , 2019, , .		7
75	An Intelligent Online Grooming Detection System Using AI Technologies. , 2019, , .		7
76	Fuzzy-Import Hashing: A Malware Analysis Approach. , 2020, , .		7
77	Automatic stroke generation for style-oriented robotic Chinese calligraphy. Future Generation Computer Systems, 2021, 119, 20-30.	4.9	7
78	A computational evaluation system of Chinese calligraphy via extended possibility-probability distribution method. , 2017, , .		6
79	A Robotic Writing Framework–Learning Human Aesthetic Preferences via Human–Machine Interactions. IEEE Access, 2019, 7, 144043-144053.	2.6	6
80	Fuzzy Hashing Aided Enhanced YARA Rules for Malware Triaging. , 2020, , .		6
81	Optimisation of Classifier Ensemble for Predictive Toxicology Applications. , 2012, , .		5
82	A new fuzzy-rough feature selection algorithm for mammographic risk analysis. , 2016, , .		5
83	Integration of fuzzy CMAC and BELC networks for uncertain nonlinear system control. , 2017, , .		5
84	Associated multi-label fuzzy-rough feature selection. , 2017, , .		5
85	Towards a Robotic Chinese Calligraphy Writing Framework. , 2018, , .		5
86	Enhanced Gradient-Based Local Feature Descriptors by Saliency Map for Egocentric Action Recognition. Applied System Innovation, 2019, 2, 7.	2.7	5
87	An LSTM Based Generative Adversarial Architecture for Robotic Calligraphy Learning System. Sustainability, 2020, 12, 9092.	1.6	5
88	A Novel Self-Organizing Emotional CMAC Network for Robotic Control. , 2020, , .		5
89	Towards the integration of heterogeneous uncertain data. , 2012, , .		4
90	Toxicity risk assessment from heterogeneous uncertain data with possibility-probability distribution. , 2013, , .		4

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91	Manual Task Completion Time Estimation for Job Shop Scheduling Using a Fuzzy Inference System. , 2017, , .		4
92	A Developmental Learning Approach of Mobile Manipulator via Playing. Frontiers in Neurorobotics, 2017, 11, 53.	1.6	4
93	Towards Deep Learning Based Robot Automatic Choreography System. Lecture Notes in Computer Science, 2019, , 629-640.	1.0	4
94	Adoption of Cloud Computing in Hotel Industry as Emerging Services. Lecture Notes in Computer Science, 2018, , 218-228.	1.0	3
95	Hierarchical quotient spaces-based feature selection. , 2018, , .		3
96	Robotic Chinese Calligraphy with Human Preference. , 2019, , .		3
97	A Study of the Necessity of Signal Categorisation in Dendritic Cell Algorithm. Advances in Intelligent Systems and Computing, 2020, , 210-222.	0.5	3
98	Integration strategies for toxicity data from an empirical perspective. , 2014, , .		2
99	Semantics Based Web Ranking Using a Robust Weight Scheme. International Journal of Web Portals, 2019, 11, 56-72.	1.1	2
100	A Comparative Study of Genetic Algorithm and Particle Swarm optimisation for Dendritic Cell Algorithm. , 2020, , .		2
101	Exclusive lasso-based k-nearest-neighbor classification. Neural Computing and Applications, 2021, 33, 14247-14261.	3.2	2
102	Curvature-Based Sparse Rule Base Generation for Fuzzy Interpolation Using Menger Curvature. Advances in Intelligent Systems and Computing, 2020, , 53-65.	0.5	2
103	Automatic Estimation of the Number of Segmentation Groups Based on MI. Lecture Notes in Computer Science, 2011, , 532-539.	1.0	2
104	A Robotic Chinese Stroke Generation Model Based on Competitive Swarm Optimizer. Advances in Intelligent Systems and Computing, 2020, , 92-103.	0.5	2
105	Strengthening intrusion detection system for adversarial attacks: improved handling of imbalance classification problem. Complex & Intelligent Systems, 2022, 8, 4863-4880.	4.0	2
106	A Type 2 wavelet brain emotional learning network with double recurrent loops based controller for nonlinear systems. Knowledge-Based Systems, 2022, 251, 109274.	4.0	2
107	Fuzzy-rough feature selection based on λ-partition differentiation entropy. , 2017, , .		1
108	Semantic combined network for zeroâ€shot scene parsing. IET Image Processing, 2020, 14, 757-765.	1.4	1

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109	A Developmental Evolutionary Learning Framework for Robotic Chinese Stroke Writing. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 1155-1169.	2.6	1
110	Special issue on emerging trends, challenges and applications in cloud computing. Wireless Networks, 2023, 29, 985-987.	2.0	1
111	A Study of TSK Inference Approaches for Control Problems. Lecture Notes in Computer Science, 2019, , 195-207.	1.0	0
112	Big Data Technology in Healthcare: A Survey. , 2019, , .		0
113	Anomaly Detection for Internet of Things (IoT) Using an Artificial Immune System. Advances in Intelligent Systems and Computing, 2021, , 858-867.	0.5	0
114	Special issue on recent advances in data science and systems. Expert Systems, 2021, 38, e12735.	2.9	0
115	Depth Sensor-Based Facial and Body Animation Control. , 2016, , 1-16.		0
116	Depth Sensor-Based Facial and Body Animation Control. , 2018, , 1943-1958.		0
117	Ankle Variable Impedance Control for Humanoid Robot Upright Balance Control. Advances in Intelligent Systems and Computing, 2022, , 203-214.	0.5	0
118	Cross-Domain Activity Recognition Using Shared Representation in Sensor Data. IEEE Sensors Journal, 2022, 22, 13273-13284.	2.4	0