

# Longzhi Yang

## List of Publications by Year in descending order

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Version: 2024-02-01

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	A framework of blockchain-based secure and privacy-preserving E-government system. <i>Wireless Networks</i> , 2023, 29, 1005-1015.	2.0	57
2	Decoder Choice Network for Metalearning. <i>IEEE Transactions on Cybernetics</i> , 2023, 53, 3440-3453.	6.2	25
3	Special issue on emerging trends, challenges and applications in cloud computing. <i>Wireless Networks</i> , 2023, 29, 985-987.	2.0	1
4	IoT-Based Android Malware Detection Using Graph Neural Network With Adversarial Defense. <i>IEEE Internet of Things Journal</i> , 2023, 10, 8432-8444.	5.5	20
5	Low-Cost Inertial Measurement Unit Calibration With Nonlinear Scale Factors. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 1028-1038.	7.2	15
6	A Developmental Evolutionary Learning Framework for Robotic Chinese Stroke Writing. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2022, 14, 1155-1169.	2.6	1
7	Ankle Variable Impedance Control for Humanoid Robot Upright Balance Control. <i>Advances in Intelligent Systems and Computing</i> , 2022, , 203-214.	0.5	0
8	A recurrent wavelet-based brain emotional learning network controller for nonlinear systems. <i>Soft Computing</i> , 2022, 26, 3013-3028.	2.1	8
9	Strengthening intrusion detection system for adversarial attacks: improved handling of imbalance classification problem. <i>Complex &amp; Intelligent Systems</i> , 2022, 8, 4863-4880.	4.0	2
10	Cross-Domain Activity Recognition Using Shared Representation in Sensor Data. <i>IEEE Sensors Journal</i> , 2022, 22, 13273-13284.	2.4	0
11	A Type 2 wavelet brain emotional learning network with double recurrent loops based controller for nonlinear systems. <i>Knowledge-Based Systems</i> , 2022, 251, 109274.	4.0	2
12	Visual-Guided Robotic Object Grasping Using Dual Neural Network Controllers. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 2282-2291.	7.2	16
13	Embedded YARA rules: strengthening YARA rules utilising fuzzy hashing and fuzzy rules for malware analysis. <i>Complex &amp; Intelligent Systems</i> , 2021, 7, 687-702.	4.0	13
14	A computational intelligence enabled honeypot for chasing ghosts in the wires. <i>Complex &amp; Intelligent Systems</i> , 2021, 7, 477-494.	4.0	12
15	Anomaly Detection for Internet of Things (IoT) Using an Artificial Immune System. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 858-867.	0.5	0
16	Modality independent adversarial network for generalized zero shot image classification. <i>Neural Networks</i> , 2021, 134, 11-22.	3.3	8
17	Dilated causal convolution with multi-head self attention for sensor human activity recognition. <i>Neural Computing and Applications</i> , 2021, 33, 13705-13722.	3.2	42
18	Exclusive lasso-based k-nearest-neighbor classification. <i>Neural Computing and Applications</i> , 2021, 33, 14247-14261.	3.2	2

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19	Automatic stroke generation for style-oriented robotic Chinese calligraphy. Future Generation Computer Systems, 2021, 119, 20-30.	4.9	7
20	Special issue on recent advances in data science and systems. Expert Systems, 2021, 38, e12735.	2.9	0
21	Interaction-Based Human Activity Comparison. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2620-2633.	2.9	11
22	Type-2 Fuzzy Hybrid Controller Network for Robotic Systems. IEEE Transactions on Cybernetics, 2020, 50, 3778-3792.	6.2	42
23	Histogram of Fuzzy Local Spatio-Temporal Descriptors for Video Action Recognition. IEEE Transactions on Industrial Informatics, 2020, 16, 4059-4067.	7.2	14
24	GANCCRobot: Generative adversarial nets based chinese calligraphy robot. Information Sciences, 2020, 516, 474-490.	4.0	12
25	An LSTM Based Generative Adversarial Architecture for Robotic Calligraphy Learning System. Sustainability, 2020, 12, 9092.	1.6	5
26	Joint Learning of Temporal Models to Handle Imbalanced Data for Human Activity Recognition. Applied Sciences (Switzerland), 2020, 10, 5293.	1.3	27
27	A Novel Self-Organizing Emotional CMAC Network for Robotic Control. , 2020, , .		5
28	A Comparative Study of Genetic Algorithm and Particle Swarm optimisation for Dendritic Cell Algorithm. , 2020, , .		2
29	Fuzzy-Import Hashing: A Malware Analysis Approach. , 2020, , .		7
30	Embedding Fuzzy Rules with YARA Rules for Performance Optimisation of Malware Analysis. , 2020, , .		8
31	Artificial Human Balance Control by Calf Muscle Activation Modelling. IEEE Access, 2020, 8, 86732-86744.	2.6	10
32	Semantic combined network for zero-shot scene parsing. IET Image Processing, 2020, 14, 757-765.	1.4	1
33	Integration of an actor-critic model and generative adversarial networks for a Chinese calligraphy robot. Neurocomputing, 2020, 388, 12-23.	3.5	14
34	Curvature-Based Sparse Rule Base Generation for Fuzzy Interpolation Using Menger Curvature. Advances in Intelligent Systems and Computing, 2020, , 53-65.	0.5	2
35	Fuzzy Hashing Aided Enhanced YARA Rules for Malware Triaging. , 2020, , .		6
36	A Study of the Necessity of Signal Categorisation in Dendritic Cell Algorithm. Advances in Intelligent Systems and Computing, 2020, , 210-222.	0.5	3

#	ARTICLE	IF	CITATIONS
37	A Robotic Chinese Stroke Generation Model Based on Competitive Swarm Optimizer. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 92-103.	0.5	2
38	A Study of TSK Inference Approaches for Control Problems. <i>Lecture Notes in Computer Science</i> , 2019, , 195-207.	1.0	0
39	Towards Deep Learning Based Robot Automatic Choreography System. <i>Lecture Notes in Computer Science</i> , 2019, , 629-640.	1.0	4
40	Big Data Technology in Healthcare: A Survey. , 2019, , .		0
41	A Deep-Learning-Driven Light-Weight Phishing Detection Sensor. <i>Sensors</i> , 2019, 19, 4258.	2.1	46
42	Cyberthreat Hunting - Part 2: Tracking Ransomware Threat Actors using Fuzzy Hashing and Fuzzy C-Means Clustering. , 2019, , .		16
43	A Robotic Writing Frameworkâ€“Learning Human Aesthetic Preferences via Humanâ€“Machine Interactions. <i>IEEE Access</i> , 2019, 7, 144043-144053.	2.6	6
44	Multi-criterion mammographic risk analysis supported with multi-label fuzzy-rough feature selection. <i>Artificial Intelligence in Medicine</i> , 2019, 100, 101722.	3.8	17
45	A recurrent emotional CMAC neural network controller for vision-based mobile robots. <i>Neurocomputing</i> , 2019, 334, 227-238.	3.5	33
46	A data-driven robotic Chinese calligraphy system using convolutional auto-encoder and differential evolution. <i>Knowledge-Based Systems</i> , 2019, 182, 104802.	4.0	19
47	Intelligent, smart and scalable cyber-physical systems. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 36, 3935-3943.	0.8	8
48	Personalised Control of Robotic Ankle Exoskeleton Through Experience-Based Adaptive Fuzzy Inference. <i>IEEE Access</i> , 2019, 7, 72221-72233.	2.6	19
49	Enhanced Gradient-Based Local Feature Descriptors by Saliency Map for Egocentric Action Recognition. <i>Applied System Innovation</i> , 2019, 2, 7.	2.7	5
50	An Improved Fuzzy Brain Emotional Learning Model Network Controller for Humanoid Robots. <i>Frontiers in Neurorobotics</i> , 2019, 13, 2.	1.6	23
51	Curvature-based sparse rule base generation for fuzzy rule interpolation. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 36, 4201-4214.	0.8	8
52	Adaptive Activation Function Generation for Artificial Neural Networks through Fuzzy Inference with Application in Grooming Text Categorisation. , 2019, , .		7
53	Augmented YARA Rules Fused With Fuzzy Hashing in Ransomware Triaging. , 2019, , .		13
54	Robotic Chinese Calligraphy with Human Preference. , 2019, , .		3

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55	An Early Diagnosis of Oral Cancer based on Three-Dimensional Convolutional Neural Networks. IEEE Access, 2019, 7, 158603-158611.	2.6	39
56	An Intelligent Online Grooming Detection System Using AI Technologies. , 2019, , .		7
57	Cyberthreat Hunting - Part 1: Triaging Ransomware using Fuzzy Hashing, Import Hashing and YARA Rules. , 2019, , .		19
58	Dendritic Cell Algorithm Enhancement Using Fuzzy Inference System for Network Intrusion Detection. , 2019, , .		8
59	Towards Big data Governance in Cybersecurity. Data-Enabled Discovery and Applications, 2019, 3, 1.	1.2	11
60	Semantics Based Web Ranking Using a Robust Weight Scheme. International Journal of Web Portals, 2019, 11, 56-72.	1.1	2
61	Dendritic Cell Algorithm with Fuzzy Inference System for Input Signal Generation. Advances in Intelligent Systems and Computing, 2019, , 203-214.	0.5	10
62	Machine Learning Algorithms for Network Intrusion Detection. Intelligent Systems Reference Library, 2019, , 151-179.	1.0	23
63	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
64	Privacy and Security Aspects of E-Government in Smart Cities. , 2019, , 89-102.		49
65	Gaze-Informed Egocentric Action Recognition for Memory Aid Systems. IEEE Access, 2018, 6, 12894-12904.	2.6	24
66	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
67	Adoption of Cloud Computing in Hotel Industry as Emerging Services. Lecture Notes in Computer Science, 2018, , 218-228.	1.0	3
68	Enhanced Robotic Handâ€™s Eye Coordination Inspired From Human-Like Behavioral Patterns. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 384-396.	2.6	10
69	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
70	An extended Takagiâ€™Sugenoâ€™Kang inference system (TSK+) with fuzzy interpolation and its rule base generation. Soft Computing, 2018, 22, 3155-3170.	2.1	48
71	A Revised Dendritic Cell Algorithm Using K-Means Clustering. , 2018, , .		8
72	Towards Deep Reinforcement Learning Based Chinese Calligraphy Robot. , 2018, , .		8

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73	Towards a Robotic Chinese Calligraphy Writing Framework. , 2018, , .		5
74	Grooming Detection using Fuzzy-Rough Feature Selection and Text Classification. , 2018, , .		24
75	Dendritic Cell Algorithm with Optimised Parameters Using Genetic Algorithm. , 2018, , .		19
76	Honeypots That Bite Back: A Fuzzy Technique for Identifying and Inhibiting Fingerprinting Attacks on Low Interaction Honeypots. , 2018, , .		22
77	A New Dynamic Path Planning Approach for Unmanned Aerial Vehicles. Complexity, 2018, 2018, 1-17.	0.9	20
78	Generative Adversarial Nets in Robotic Chinese Calligraphy. , 2018, , .		23
79	Self-Organizing Brain Emotional Learning Controller Network for Intelligent Control System of Mobile Robots. IEEE Access, 2018, 6, 59096-59108.	2.6	38
80	Fuzzy Logic Aided Intelligent Threat Detection in Cisco Adaptive Security Appliance 5500 Series Firewalls. , 2018, , .		18
81	Interval Type-2 TSK+ Fuzzy Inference System. , 2018, , .		7
82	Job shop planning and scheduling for manufacturers with manual operations. Expert Systems, 2018, 38, e12315.	2.9	8
83	Hierarchical quotient spaces-based feature selection. , 2018, , .		3
84	Depth Sensor-Based Facial and Body Animation Control. , 2018, , 1943-1958.		0
85	A robot calligraphy system: From simple to complex writing by human gestures. Engineering Applications of Artificial Intelligence, 2017, 59, 1-14.	4.3	44
86	Posture-based and action-based graphs for boxing skill visualization. Computers and Graphics, 2017, 69, 104-115.	1.4	12
87	Intrusion detection system by fuzzy interpolation. , 2017, , .		23
88	Generalized Adaptive Fuzzy Rule Interpolation. IEEE Transactions on Fuzzy Systems, 2017, 25, 839-853.	6.5	71
89	Integration of fuzzy CMAC and BELC networks for uncertain nonlinear system control. , 2017, , .		5
90	Dynamic QoS solution for enterprise networks using TSK fuzzy interpolation. , 2017, , .		19

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91	Associated multi-label fuzzy-rough feature selection. , 2017, , .		5
92	Manual Task Completion Time Estimation for Job Shop Scheduling Using a Fuzzy Inference System. , 2017, , .		4
93	A computational evaluation system of Chinese calligraphy via extended possibility-probability distribution method. , 2017, , .		6
94	A Developmental Learning Approach of Mobile Manipulator via Playing. Frontiers in Neurorobotics, 2017, 11, 53.	1.6	4
95	Fuzzy-rough feature selection based on $\hat{\nu}$ -partition differentiation entropy. , 2017, , .		1
96	TSK Inference with Sparse Rule Bases. Advances in Intelligent Systems and Computing, 2017, , 107-123.	0.5	14
97	Towards sparse rule base generation for fuzzy rule interpolation. , 2016, , .		23
98	Experience-based rule base generation and adaptation for fuzzy interpolation. , 2016, , .		17
99	A new fuzzy-rough feature selection algorithm for mammographic risk analysis. , 2016, , .		5
100	Depth Sensor-Based Facial and Body Animation Control. , 2016, , 1-16.		0
101	Multi-layer Lattice Model for Real-Time Dynamic Character Deformation. Computer Graphics Forum, 2015, 34, 99-109.	1.8	12
102	Fuzzy system approaches to negotiation pricing decision support. Journal of Intelligent and Fuzzy Systems, 2015, 29, 685-699.	0.8	11
103	Integration strategies for toxicity data from an empirical perspective. , 2014, , .		2
104	Closed form fuzzy interpolation with interval type-2 fuzzy sets. , 2014, , .		13
105	Towards model governance in predictive toxicology. International Journal of Information Management, 2013, 33, 567-582.	10.5	16
106	Toxicity risk assessment from heterogeneous uncertain data with possibility-probability distribution. , 2013, , .		4
107	Towards a Fuzzy Expert System on Toxicological Data Quality Assessment. Molecular Informatics, 2013, 32, 65-78.	1.4	24
108	Closed form fuzzy interpolation. Fuzzy Sets and Systems, 2013, 225, 1-22.	1.6	65

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109	Optimisation of Classifier Ensemble for Predictive Toxicology Applications. , 2012, , .		5
110	Towards the integration of heterogeneous uncertain data. , 2012, , .		4
111	Adaptive fuzzy interpolation with uncertain observations and rule base. , 2011, , .		12
112	Adaptive Fuzzy Interpolation. IEEE Transactions on Fuzzy Systems, 2011, 19, 1107-1126.	6.5	107
113	Adaptive fuzzy interpolation with prioritized component candidates. , 2011, , .		12
114	Automatic Estimation of the Number of Segmentation Groups Based on MI. Lecture Notes in Computer Science, 2011, , 532-539.	1.0	2
115	Generalisation of Scale and Move Transformation-Based Fuzzy Interpolation. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2011, 15, 288-298.	0.5	38
116	Adaptive fuzzy interpolation and extrapolation with multiple-antecedent rules. , 2010, , .		14
117	Towards adaptive interpolative reasoning. , 2009, , .		24
118	Fuzzy Interpolation Systems and Applications. , 0, , .		9