

Lei Zhang

List of Publications by Year in descending order

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34
papers

937
citations

1478505

6
h-index

1588992

8
g-index

34
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34
docs citations

34
times ranked

1108
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating the Effects of Size and Precision of Training Data on ANN Training Performance for the Prediction of Chaotic Time Series Patterns. , 2022, , 266-282.		0
2	Chaotic System Design Based on Recurrent Artificial Neural Network for the Simulation of EEG Time Series. , 2022, , 1510-1521.		0
3	Deep Learning and Statistical-Based Daily Stock Price Forecasting and Monitoring. Studies in Big Data, 2021, , 203-216.	1.1	6
4	Artificial Intelligence: Its Role in Diagnosis and Monitoring Against COVID-19. Studies in Big Data, 2021, , 147-154.	1.1	0
5	Adaptation of dynamical properties of time series data and its applications in deep brain stimulation. Nonlinear Dynamics, 2020, 99, 3231-3251.	5.2	3
6	Time series forecasting of COVID-19 transmission in Canada using LSTM networks. Chaos, Solitons and Fractals, 2020, 135, 109864.	5.1	684
7	Dynamical system based compact deep hybrid network for classification of Parkinson disease related EEG signals. Neural Networks, 2020, 130, 75-84.	5.9	51
8	Nonlinear Autoregressive Model Design and Optimization Based on ANN for the Prediction of Chaotic Patterns in EEG Time Series. Lecture Notes in Computational Vision and Biomechanics, 2020, , 51-60.	0.5	0
9	Building Logistic Spiking Neuron Models Using Analytical Approach. IEEE Access, 2019, 7, 80443-80452.	4.2	7
10	Evaluating the Effects of Size and Precision of Training Data on ANN Training Performance for the Prediction of Chaotic Time Series Patterns. International Journal of Software Science and Computational Intelligence, 2019, 11, 16-30.	3.0	7
11	Chaotic System Design Based on Recurrent Artificial Neural Network for the Simulation of EEG Time Series. International Journal of Cognitive Informatics and Natural Intelligence, 2019, 13, 25-35.	0.4	1
12	EEG Signals Classification Using Machine Learning for The Identification and Diagnosis of Schizophrenia. , 2019, 2019, 4521-4524.		42
13	Artificial Neural Network Architecture Design for EEG Time Series Simulation Using Chaotic System. , 2018, , .		5
14	Time Series Generation Using Nonlinear Autoregressive Model Artificial Neural Network Based Nonlinear Autoregressive Model Design for the Generation and Prediction of Lorenz Chaotic System. , 2018, , .		1
15	Artificial Neural Network Modelling of Rossler's and Chua's Chaotic Systems. , 2018, , .		4
16	Real Time Fixed Point Adaptive Chaotic System Generator for Deep Brain Stimulation Using FPGA. , 2018, , .		1
17	Lorenz Chaotic System Artificial Neural Network Training with Single Time Series Input and Multiple Time Series Outputs for EEG Prediction. , 2018, , .		1
18	Evaluating the Training Performance of Artificial Neural Network Using Small Time Series Segments of The Lorenz Chaotic System. , 2018, , .		6

#	ARTICLE	IF	CITATIONS
19	Improving the Efficacy of Artificial Neural Network Training by Optimizing Training Data for the Simulation and Prediction of Electroencephalogram Chaotic Patterns. , 2018, , .		1
20	Artificial Neural Network Based Chaotic System Design for the Simulation of EEG Time Series. , 2018, , .		2
21	FPGA Hardware Implementation and Optimization for Neural Network based Chaotic System Design. , 2018, , .		1
22	Artificial Neural Network model design and topology analysis for FPGA implementation of Lorenz chaotic generator. , 2017, , .		25
23	HÃ©non map chaotic system analysis and VHDL-based fixed-point FPGA implementation for brain stimulation. , 2017, , .		2
24	Real-time feature extraction for multi-channel EEG signals time-frequency analysis. , 2017, , .		5
25	System generator model-based FPGA design optimization and hardware co-simulation for Lorenz chaotic generator. , 2017, , .		30
26	Implementation of Fixed-point Neuron Models with Threshold, Ramp and Sigmoid Activation Functions. IOP Conference Series: Materials Science and Engineering, 2017, 224, 012054.	0.6	16
27	Fixed-point FPGA model-based design and optimization for Henon map chaotic generator. , 2017, , .		3
28	Artificial neural network model-based design and fixed-point FPGA implementation of hÃ©non map chaotic system for brain research. , 2017, , .		4
29	Artificial neural networks model design of Lorenz chaotic system for EEG pattern recognition and prediction. , 2017, , .		19
30	Multilayer Artificial Neural Network Design and Architecture Optimization for the Pattern Recognition and Prediction of EEG Signals Based on HÃ©non Map Chaotic System. , 2017, , .		3
31	HÃ©non map chaotic system critical points analysis and classification for the dynamic control of brain stimulation. , 2017, , .		3
32	Ultrasonic inspection of underwater guy wires with applications to floating oil platforms. , 2016, , .		1
33	Maximum entropy based common spatial patterns for motor imagery classification. , 2016, 2016, 5865-5868.		0
34	A multichannel data acquisition system design for Guided Waves Ultrasound Testing. , 2014, , .		3