Lei Zhang

List of Publications by Year
in descending order

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		1478505	1588992
34	937	6	8
papers	citations	h-index	g-index

34	34	34	1108
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Time series forecasting of COVID-19 transmission in Canada using LSTM networks. Chaos, Solitons and Fractals, 2020, 135, 109864.	5.1	684
2	Dynamical system based compact deep hybrid network for classification of Parkinson disease related EEG signals. Neural Networks, 2020, 130, 75-84.	5.9	51
3	EEG Signals Classification Using Machine Learning for The Identification and Diagnosis of Schizophrenia. , 2019, 2019, 4521-4524.		42
4	System generator model-based FPGA design optimization and hardware co-simulation for Lorenz chaotic generator. , 2017, , .		30
5	Artificial Neural Network model design and topology analysis for FPGA implementation of Lorenz chaotic generator. , 2017, , .		25
6	Artificial neural networks model design of Lorenz chaotic system for EEG pattern recognition and prediction. , 2017, , .		19
7	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
8	Building Logistic Spiking Neuron Models Using Analytical Approach. IEEE Access, 2019, 7, 80443-80452.	4.2	7
9	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
10	Evaluating the Training Performance of Artificial Neural Network Using Small Time Series Segments of The Lorenz Chaotic System. , 2018, , .		6
11	Deep Learning and Statistical-Based Daily Stock Price Forecasting and Monitoring. Studies in Big Data, 2021, , 203-216.	1.1	6
12	Real-time feature extraction for multi-channel EEG signals time-frequency analysis. , 2017, , .		5
13	Artificial Neural Network Architecture Design for EEG Time Series Simulation Using Chaotic System. , 2018, , .		5
14	Artificial neural network model-based design and fixed-point FPGA implementation of hÃ©non map chaotic system for brain research. , 2017, , .		4
15	Artificial Neural Network Modelling of Rossler's and Chua's Chaotic Systems. , 2018, , .		4
16	A multichannel data acquisition system design for Guided Waves Ultrasound Testing. , 2014, , .		3
17	Fixed-point FPGA model-based design and optimization for Henon map chaotic generator. , 2017, , .		3
18	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

#	Article	IF	Citations
19	HÃ©non map chaotic system critical points analysis and classification for the dynamic control of brain stimulation. , 2017, , .		3
20	Adaptation of dynamical properties of time series data and its applications in deep brain stimulation. Nonlinear Dynamics, 2020, 99, 3231-3251.	5.2	3
21	HÃ©non map chaotic system analysis and VHDL-based fixed-point FPGA implementation for brain stimulation. , 2017, , .		2
22	Artificial Neural Network Based Chaotic System Design for the Simulation of EEG Time Series. , 2018, , .		2
23	Ultrasonic inspection of underwater guy wires with applications to floating oil platforms. , 2016, , .		1
24	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
25	Real Time Fixed Point Adaptive Chaotic System Generator for Deep Brain Stimulation Using FPGA. , 2018, , .		1
26	Lorenz Chaotic System Artificial Neural Network Training with Single Time Series Input and Multiple Time Series Outputs for EEG Prediction. , 2018, , .		1
27	Improving the Efficacy of Artificial Neural Network Training by Optimizing Training Data for the Simulation and Prediction of Electroencephalogram Chaotic Patterns. , 2018, , .		1
28	FPGA Hardware Implementation and Optimization for Neural Network based Chaotic System Design. , 2018, , .		1
29	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
30	Maximum entropy based common spatial patterns for motor imagery classification. , 2016, 2016, 5865-5868.		0
31	Artificial Intelligence: Its Role in Diagnosis and Monitoring Against COVID-19. Studies in Big Data, 2021, , 147-154.	1.1	0
32	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
33	Chaotic System Design Based on Recurrent Artificial Neural Network for the Simulation of EEG Time Series. , 2022, , 1510-1521.		0
34	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