

Subramaniam Nachimuthu Deepa

List of Publications by Year in descending order

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85
papers

2,163
citations

567281

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330143

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86
all docs

86
docs citations

86
times ranked

2340
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on Methods to Fix Number of Hidden Neurons in Neural Networks. Mathematical Problems in Engineering, 2013, 2013, 1-11.	1.1	635
2	Neural network based hybrid computing model for wind speed prediction. Neurocomputing, 2013, 122, 425-429.	5.9	80
3	A survey on artificial intelligence approaches for medical image classification. Indian Journal of Science and Technology, 2011, 4, 1583-1595.	0.7	73
4	Comparative analysis on hidden neurons estimation in multi layer perceptron neural networks for wind speed forecasting. Artificial Intelligence Review, 2017, 48, 449-471.	15.7	66
5	Introduction to Genetic Algorithms. , 2008, , .		63
6	A novel criterion to select hidden neuron numbers in improved back propagation networks for wind speed forecasting. Applied Intelligence, 2016, 44, 878-893.	5.3	50
7	Grey Wolf optimization-Elman neural network model for stock price prediction. Soft Computing, 2021, 25, 649-658.	3.6	42
8	Multidimensional Texture Characterization: On Analysis for Brain Tumor Tissues Using MRS and MRI. Journal of Digital Imaging, 2014, 27, 496-506.	2.9	40
9	Improving Grid Power Quality with FACTS Device on Integration of Wind Energy System. , 2011, , .		33
10	Fusion model of wavelet transform and adaptive neuro fuzzy inference system for stock market prediction. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	4.9	28
11	Model order formulation of a multivariable discrete system using a modified particle swarm optimization approach. Swarm and Evolutionary Computation, 2011, 1, 204-212.	8.1	25
12	Optimized deep learning neural network predictive controller for continuous stirred tank reactor. Computers and Electrical Engineering, 2018, 71, 782-797.	4.8	24
13	Artificial neural networks design for classification of brain tumour. , 2012, , .		23
14	Optimized nonlinear neural network architectural models for multistep wind speed forecasting. Computers and Electrical Engineering, 2019, 78, 32-49.	4.8	23
15	Convolutional neural network for stock trading using technical indicators. Automated Software Engineering, 2022, 29, .	2.9	20
16	Stock market prediction using subtractive clustering for a neuro fuzzy hybrid approach. Cluster Computing, 2019, 22, 13159-13166.	5.0	19
17	New SVM kernel soft computing models for wind speed prediction in renewable energy applications. Soft Computing, 2020, 24, 11441-11458.	3.6	19
18	An Intelligent Ensemble Neural Network Model for Wind Speed Prediction in Renewable Energy Systems. Scientific World Journal, The, 2016, 2016, 1-14.	2.1	17

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19	Performance analysis of modeling framework for prediction in wind farms employing artificial neural networks. <i>Soft Computing</i> , 2014, 18, 607-615.	3.6	16
20	Extreme Learning Machine for two category data classification. , 2012, , .		15
21	Design of direct MRAC augmented with 2 DoF PID controller: An application to speed control of a servo plant. <i>Journal of King Saud University, Engineering Sciences</i> , 2020, 32, 310-320.	2.0	15
22	Optimization for PID Control Parameters on Pitch Control of Aircraft Dynamics Based on Tuning Methods. <i>Applied Mathematics and Information Sciences</i> , 2016, 10, 343-350.	0.5	15
23	An Intelligent Computing Model for Wind Speed Prediction in Renewable Energy Systems. <i>Procedia Engineering</i> , 2012, 30, 380-385.	1.2	14
24	Network Energy Optimization of IOTs in Wireless Sensor Networks Using Capsule Neural Network Learning Model. <i>Wireless Personal Communications</i> , 2020, 115, 2415-2436.	2.7	14
25	A hybrid PSO and GSA-based maximum power point tracking algorithm for PV systems. , 2013, , .		13
26	SVM Based Neuro Fuzzy Model for Short Term Wind Power Forecasting. <i>The National Academy of Sciences, India</i> , 2017, 40, 131-134.	1.3	13
27	BRAIN TUMOR TISSUE CATEGORIZATION IN 3D MAGNETIC RESONANCE IMAGES USING IMPROVED PSO FOR EXTREME LEARNING MACHINE. <i>Progress in Electromagnetics Research B</i> , 2013, 49, 31-54.	1.0	12
28	Linear and non-linear proximal support vector machine classifiers for wind speed prediction. <i>Cluster Computing</i> , 2019, 22, 379-390.	5.0	12
29	Hybrid evolutionary computing algorithms and statistical methods based optimal fragmentation in smart cloud networks. <i>Cluster Computing</i> , 2019, 22, 241-254.	5.0	12
30	Neural networks and SMO based classification for brain tumor. , 2011, , .		11
31	Intelligent decision support model using tongue image features for healthcare monitoring of diabetes diagnosis and classification. <i>Network Modeling Analysis in Health Informatics and Bioinformatics</i> , 2021, 10, 1.	2.1	11
32	Panoramic tongue imaging and deep convolutional machine learning model for diabetes diagnosis in humans. <i>Scientific Reports</i> , 2022, 12, 186.	3.3	11
33	An Intelligent Operator for Genetic Fuzzy Rule Based System. <i>International Journal of Intelligent Information Technologies</i> , 2011, 7, 28-40.	0.8	10
34	Deep learning-based soft computing model for image classification application. <i>Soft Computing</i> , 2020, 24, 18411-18430.	3.6	10
35	Fuzzy-twin proximal SVM kernel-based deep learning neural network model for hyperspectral image classification. <i>Neural Computing and Applications</i> , 2022, 34, 19343-19376.	5.6	10
36	Optimized deep learning neural network model for doubly fed induction generator in wind energy conversion systems. <i>Soft Computing</i> , 2019, 23, 8453-8470.	3.6	9

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37	A Review on Neural Network Models for Wind Speed Prediction. Wind Engineering, 2013, 37, 111-123.	1.9	8
38	A Hybrid DE-RGSO-ELM for Brain Tumor Tissue Categorization in 3D Magnetic Resonance Images. Mathematical Problems in Engineering, 2014, 2014, 1-14.	1.1	8
39	Longitudinal control of aircraft dynamics based on optimization of PID parameters. Thermophysics and Aeromechanics, 2016, 23, 185-194.	0.5	8
40	FORMATION OF FUZZY IF-THEN RULES AND MEMBERSHIP FUNCTION USING ENHANCED PARTICLE SWARM OPTIMIZATION. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2013, 21, 103-126.	1.9	7
41	Design of State Feedback LQR Based Dual Mode Fractional-Order PID Controller using Inertia Weighted PSO Algorithm: For Control of an Underactuated System. Journal of the Institution of Engineers (India): Series C, 2021, 102, 1403-1417.	1.2	7
42	A Genetic Algorithm and Particle Swarm Optimization Approach for Lower Order Modelling of Linear Time Invariant Discrete Systems. , 2007, , .		5
43	Very Short Term Wind Power Forecasting Using PSO-Neural Network Hybrid System. Communications in Computer and Information Science, 2011, , 503-511.	0.5	5
44	A hybrid technique using particle swarm optimization and differential evolution to solve economic dispatch problem with valve-point effect. , 2011, , .		5
45	An efficient hybrid neural network model in renewable energy systems. , 2012, , .		5
46	Congestion management in deregulated power system using hybrid cat-firefly algorithm with TCSC and SVC FACTS devices. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2016, 35, 1524-1537.	0.9	5
47	Momentum-based wavelet and double wavelet neural networks for power system applications. Neural Computing and Applications, 2018, 29, 495-511.	5.6	5
48	Precisious Estimation of Solar Irradiance by Innovative Neural Network and Identify Exact Hidden Layer Nodes through Novel Deciding Standard. Asian Journal of Research in Social Sciences and Humanities, 2016, 6, 951.	0.0	5
49	PSO with mutation for fuzzy classifier design. Procedia Computer Science, 2010, 2, 307-313.	2.0	4
50	Power system stability by reducing power losses using optimization techniques. , 2013, , .		4
51	Fuzzy logic based dynamic sliding mode control of boost inverter in photovoltaic application. Journal of Renewable and Sustainable Energy, 2015, 7, 043133.	2.0	4
52	Modeling and Approximation of STOL Aircraft Longitudinal Aerodynamic Characteristics. Journal of Aerospace Engineering, 2015, 28, 04014072.	1.4	4
53	RF energy harvesting using 900MHz of mobile signal frequency to charging the mobile battery. , 2017, , .		4
54	Global biotic cross-pollination algorithm enhanced with evolutionary strategies for color image segmentation. Soft Computing, 2019, 23, 2545-2559.	3.6	4

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55	New criteria to fix number of hidden neurons in multilayer perceptron networks for wind speed prediction. <i>Wind and Structures, an International Journal</i> , 2014, 18, 619-631.	0.8	4
56	CHARACTERIZATION AND EVALUATION OF VEGETABLE AMARANTHUS (AMARANTHUS TRICOLOR L.) FOR HIGH YIELD, QUALITY AND RESISTANCE TO RHIZOCTONIA SOLANI. <i>Acta Horticulturae</i> , 2007, , 447-452.	0.2	3
57	Design of optimal fuzzy classifier system using Particle Swarm Optimization. , 2010, , .		3
58	Perceptual video quality assessment in H.264 video coding standard using objective modeling. <i>SpringerPlus</i> , 2014, 3, 174.	1.2	3
59	Evolutionary learning of spiking neural networks towards quantification of 3D MRI brain tumor tissues. <i>Soft Computing</i> , 2015, 19, 1803-1816.	3.6	3
60	Modeling and implementation of various controllers used for Quadruple-Tank. , 2016, , .		3
61	Energy optimization of internet of things in wireless sensor network models using type-2 fuzzy neural systems. <i>International Journal of Communication Systems</i> , 2021, 34, e4967.	2.5	3
62	Optimized Fuzzy-Based Wavelet Neural Network Controller for a Non-Linear Process Control System. <i>IETE Journal of Research</i> , 2023, 69, 1363-1372.	2.6	3
63	Development of Intelligent Sensor System for Classification of Material Type Using Neural Networks. , 2007, , .		2
64	Comparative analysis of XLMiner and WEKA for pattern classification. , 2012, , .		2
65	Lung Cancer Classification Employing Proposed Real Coded Genetic Algorithm Based Radial Basis Function Neural Network Classifier. <i>Computational and Mathematical Methods in Medicine</i> , 2016, 2016, 1-15.	1.3	2
66	Intelligent Neural Learning Models for Multi-step Wind Speed Forecasting in Renewable Energy Applications. <i>Journal of Control, Automation and Electrical Systems</i> , 0, , 1.	2.0	2
67	A Novel Simulator Using Minimal Resource Allocation Network and Its Application in Industrial Methanol Oxidation to Formaldehyde. , 2011, , .		1
68	An efficient computing model for renewable energy systems. , 2012, , .		1
69	A novel switching control strategy in SVM based dual three-phase current and voltage source inverters for two dissimilar motors. , 2013, , .		1
70	A Design of Longitudinal Control of an Aircraft Using a Fuzzy Logic Based PID Controller. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 547-559.	0.6	1
71	Solving Unit Commitment Problem Employing Proposed Hybrid BBO-discrete Hopfield Neural Network. <i>Research Journal of Applied Sciences, Engineering and Technology</i> , 2016, 12, 328-338.	0.1	1
72	Developed global biotic cross pollination algorithm for CIS. <i>International Journal of Business Intelligence and Data Mining</i> , 2018, 13, 108.	0.2	1

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73	Modified Radial Basis Function Network for Brain Tumor Classification. Lecture Notes in Computer Science, 2011, , 366-371.	1.3	1
74	Multi-step wind speed and wind power forecasting using variational momentum factor and deep learning based intelligent neural network models. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	1
75	A novel approach for root distribution analysis of linear time-invariant systems using Routh and Fuller tables. Asian Journal of Control, 2009, 11, 271-280.	3.0	0
76	Evolutionary computing techniques for model order formulation of linear time invariant discrete systems. , 2010, , .		0
77	A modified particle swarm optimization for lower order model formulation of linear time invariant continuous systems. , 2010, , .		0
78	A new control strategy for grid interfacing inverter in wind energy applications. , 2013, , .		0
79	Perceptual video quality based bitrate control for broadband video telephony applications. , 2014, , .		0
80	A Modified Current Controller for H-Bridge Active Filter to Reduce Harmonics in Single Phase System. Applied Mechanics and Materials, 0, 573, 122-129.	0.2	0
81	Minimization of losses and FACTS installation cost using proposed differential gravitational search algorithm optimization technique. JVC/Journal of Vibration and Control, 2017, 23, 235-251.	2.6	0
82	Variant of the charged system search algorithm for the design of optimal linear phase finite impulse response filters. Automatika, 2019, 60, 266-273.	2.0	0
83	Adaptive extreme learning machine -Fuzzy system framework for energy optimization of IOTs in wireless sensor networks. Internet Technology Letters, 2021, , e267.	1.9	0
84	An Efficient Hybrid Neural Network Model for Wind Speed Prediction. Asian Journal of Research in Social Sciences and Humanities, 2016, 6, 1998.	0.0	0
85	Regulated Jordan-Elman Neural Network-Based Controller Model for Grid-Connected Wind Energy Conversion Systems. Lecture Notes in Electrical Engineering, 2020, , 63-75.	0.4	0