

# Subramaniam Nachimuthu Deepa

## List of Publications by Year in descending order

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85  
papers

2,163  
citations

567281

15  
h-index

330143

37  
g-index

86  
all docs

86  
docs citations

86  
times ranked

2340  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized Fuzzy-Based Wavelet Neural Network Controller for a Non-Linear Process Control System. IETE Journal of Research, 2023, 69, 1363-1372.	2.6	3
2	Panoramic tongue imaging and deep convolutional machine learning model for diabetes diagnosis in humans. Scientific Reports, 2022, 12, 186.	3.3	11
3	Convolutional neural network for stock trading using technical indicators. Automated Software Engineering, 2022, 29, .	2.9	20
4	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
5	Fuzzy-twin proximal SVM kernel-based deep learning neural network model for hyperspectral image classification. Neural Computing and Applications, 2022, 34, 19343-19376.	5.6	10
6	Grey Wolf optimization-Elman neural network model for stock price prediction. Soft Computing, 2021, 25, 649-658.	3.6	42
7	Adaptive extreme learning machine -Fuzzy system framework for energy optimization of IOTs in wireless sensor networks. Internet Technology Letters, 2021, , e267.	1.9	0
8	Intelligent decision support model using tongue image features for healthcare monitoring of diabetes diagnosis and classification. Network Modeling Analysis in Health Informatics and Bioinformatics, 2021, 10, 1.	2.1	11
9	Energy optimization of internet of things in wireless sensor network models using type-2 fuzzy neural systems. International Journal of Communication Systems, 2021, 34, e4967.	2.5	3
10	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
11	Design of direct MRAC augmented with 2 DoF PID controller: An application to speed control of a servo plant. Journal of King Saud University, Engineering Sciences, 2020, 32, 310-320.	2.0	15
12	New SVM kernel soft computing models for wind speed prediction in renewable energy applications. Soft Computing, 2020, 24, 11441-11458.	3.6	19
13	Network Energy Optimization of IOTs in Wireless Sensor Networks Using Capsule Neural Network Learning Model. Wireless Personal Communications, 2020, 115, 2415-2436.	2.7	14
14	Deep learning-based soft computing model for image classification application. Soft Computing, 2020, 24, 18411-18430.	3.6	10
15	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
16	Optimized nonlinear neural network architectural models for multistep wind speed forecasting. Computers and Electrical Engineering, 2019, 78, 32-49.	4.8	23
17	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
18	Optimized deep learning neural network model for doubly fed induction generator in wind energy conversion systems. Soft Computing, 2019, 23, 8453-8470.	3.6	9

#	ARTICLE	IF	CITATIONS
19	Global biotic cross-pollination algorithm enhanced with evolutionary strategies for color image segmentation. <i>Soft Computing</i> , 2019, 23, 2545-2559.	3.6	4
20	Stock market prediction using subtractive clustering for a neuro fuzzy hybrid approach. <i>Cluster Computing</i> , 2019, 22, 13159-13166.	5.0	19
21	Linear and non-linear proximal support vector machine classifiers for wind speed prediction. <i>Cluster Computing</i> , 2019, 22, 379-390.	5.0	12
22	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
23	Momentum-based wavelet and double wavelet neural networks for power system applications. <i>Neural Computing and Applications</i> , 2018, 29, 495-511.	5.6	5
24	Optimized deep learning neural network predictive controller for continuous stirred tank reactor. <i>Computers and Electrical Engineering</i> , 2018, 71, 782-797.	4.8	24
25	Developed global biotic cross pollination algorithm for CIS. <i>International Journal of Business Intelligence and Data Mining</i> , 2018, 13, 108.	0.2	1
26	Minimization of losses and FACTS installation cost using proposed differential gravitational search algorithm optimization technique. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 235-251.	2.6	0
27	RF energy harvesting using 900MHz of mobile signal frequency to charging the mobile battery. , 2017, , .		4
28	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
29	Comparative analysis on hidden neurons estimation in multi layer perceptron neural networks for wind speed forecasting. <i>Artificial Intelligence Review</i> , 2017, 48, 449-471.	15.7	66
30	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
31	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
32	An Intelligent Ensemble Neural Network Model for Wind Speed Prediction in Renewable Energy Systems. <i>Scientific World Journal, The</i> , 2016, 2016, 1-14.	2.1	17
33	Modeling and implementation of various controllers used for Quadruple-Tank. , 2016, , .		3
34	Congestion management in deregulated power system using hybrid cat-firefly algorithm with TCSC and SVC FACTS devices. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2016, 35, 1524-1537.	0.9	5
35	Longitudinal control of aircraft dynamics based on optimization of PID parameters. <i>Thermophysics and Aeromechanics</i> , 2016, 23, 185-194.	0.5	8
36	A novel criterion to select hidden neuron numbers in improved back propagation networks for wind speed forecasting. <i>Applied Intelligence</i> , 2016, 44, 878-893.	5.3	50

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37	Optimization for PID Control Parameters on Pitch Control of Aircraft Dynamics Based on Tuning Methods. Applied Mathematics and Information Sciences, 2016, 10, 343-350.	0.5	15
38	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
39	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
40	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
41	Evolutionary learning of spiking neural networks towards quantification of 3D MRI brain tumor tissues. Soft Computing, 2015, 19, 1803-1816.	3.6	3
42	Modeling and Approximation of STOL Aircraft Longitudinal Aerodynamic Characteristics. Journal of Aerospace Engineering, 2015, 28, 04014072.	1.4	4
43	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
44	A Design of Longitudinal Control of an Aircraft Using a Fuzzy Logic Based PID Controller. Advances in Intelligent Systems and Computing, 2014, , 547-559.	0.6	1
45	Perceptual video quality based bitrate control for broadband video telephony applications. , 2014, , .		0
46	Performance analysis of modeling framework for prediction in wind farms employing artificial neural networks. Soft Computing, 2014, 18, 607-615.	3.6	16
47	Multidimensional Texture Characterization: On Analysis for Brain Tumor Tissues Using MRS and MRI. Journal of Digital Imaging, 2014, 27, 496-506.	2.9	40
48	Perceptual video quality assessment in H.264 video coding standard using objective modeling. SpringerPlus, 2014, 3, 174.	1.2	3
49	New criteria to fix number of hidden neurons in multilayer perceptron networks for wind speed prediction. Wind and Structures, an International Journal, 2014, 18, 619-631.	0.8	4
50	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
51	Neural network based hybrid computing model for wind speed prediction. Neurocomputing, 2013, 122, 425-429.	5.9	80
52	A novel switching control strategy in SVM based dual three-phase current and voltage source inverters for two dissimilar motors. , 2013, , .		1
53	Power system stability by reducing power losses using optimization techniques. , 2013, , .		4
54	A new control strategy for grid interfacing inverter in wind energy applications. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
55	A hybrid PSO and GSA-based maximum power point tracking algorithm for PV systems. , 2013, , .		13
56	Review on Methods to Fix Number of Hidden Neurons in Neural Networks. Mathematical Problems in Engineering, 2013, 2013, 1-11.	1.1	635
57	A Review on Neural Network Models for Wind Speed Prediction. Wind Engineering, 2013, 37, 111-123.	1.9	8
58	BRAIN TUMOR TISSUE CATEGORIZATION IN 3D MAGNETIC RESONANCE IMAGES USING IMPROVED PSO FOR EXTREME LEARNING MACHINE. Progress in Electromagnetics Research B, 2013, 49, 31-54.	1.0	12
59	Comparative analysis of XLMiner and WEKA for pattern classification. , 2012, , .		2
60	An Intelligent Computing Model for Wind Speed Prediction in Renewable Energy Systems. Procedia Engineering, 2012, 30, 380-385.	1.2	14
61	Extreme Learning Machine for two category data classification. , 2012, , .		15
62	An efficient hybrid neural network model in renewable energy systems. , 2012, , .		5
63	Artificial neural networks design for classification of brain tumour. , 2012, , .		23
64	An efficient computing model for renewable energy systems. , 2012, , .		1
65	A Novel Simulator Using Minimal Resource Allocation Network and Its Application in Industrial Methanol Oxidation to Formaldehyde. , 2011, , .		1
66	Very Short Term Wind Power Forecasting Using PSO-Neural Network Hybrid System. Communications in Computer and Information Science, 2011, , 503-511.	0.5	5
67	Improving Grid Power Quality with FACTS Device on Integration of Wind Energy System. , 2011, , .		33
68	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
69	A hybrid technique using particle swarm optimization and differential evolution to solve economic dispatch problem with valve-point effect. , 2011, , .		5
70	An Intelligent Operator for Genetic Fuzzy Rule Based System. International Journal of Intelligent Information Technologies, 2011, 7, 28-40.	0.8	10
71	Neural networks and SMO based classification for brain tumor. , 2011, , .		11
72	A survey on artificial intelligence approaches for medical image classification. Indian Journal of Science and Technology, 2011, 4, 1583-1595.	0.7	73

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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	PSO with mutation for fuzzy classifier design. Procedia Computer Science, 2010, 2, 307-313.	2.0	4
75	Design of optimal fuzzy classifier system using Particle Swarm Optimization. , 2010, , .		3
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 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
79	Introduction to Genetic Algorithms. , 2008, , .		63
80	Development of Intelligent Sensor System for Classification of Material Type Using Neural Networks. , 2007, , .		2
81	CHARACTERIZATION AND EVALUATION OF VEGETABLE AMARANTHUS (AMARANTHUS TRICOLOR L.) FOR HIGH YIELD, QUALITY AND RESISTANCE TO RHIZOCTONIA SOLANI. Acta Horticulturae, 2007, , 447-452.	0.2	3
82	A Genetic Algorithm and Particle Swarm Optimization Approach for Lower Order Modelling of Linear Time Invariant Discrete Systems. , 2007, , .		5
83	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
84	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
85	Intelligent Neural Learning Models for Multi-step Wind Speed Forecasting in Renewable Energy Applications. Journal of Control, Automation and Electrical Systems, 0, , 1.	2.0	2