CURRICULUM VITAE

1. NAME   :   **Dr.S.N.Deepa B.E., M.E., Ph.D.**

2. DESIGNATION   :   Associate Professor

Department of Electrical and Electronics Engineering

Anna University

Regional Campus: Coimbatore

Coimbatore- 641 046

Email : deepapsg@gmail.com

Phone : 99446 79333

WEBSITES FOR RESEARCH PERFORMANCE

Scopus: https://www.scopus.com/authid/detail.uri?authorId=9636847300

Web of Science: https://publons.com/researcher/2150326/deepa-s-n/

ORCID: https://orcid.org/0000-0003-2150-5051

Google Scholar: https://scholar.google.co.in/citations?user=F0aBlR8AAAAJ&hl=en&oi=ao

3. DEGREE OBTAINED

EDUCATIONAL QUALIFICATIONS			
	Under-Graduate	**Post-Graduate**	**Research**
Degree	BE	ME	Ph.D.
Month & Year	May 1995	May 2004	December 2008
College	Government College of Technology, Coimbatore	PSG College of Technology, Coimbatore	PSG College of Technology, Coimbatore
Specialization	Electrical and Electronics Engineering	Control Systems	Faculty of Electrical Engineering
University	Bharathiar University	Anna University Chennai	Anna University Chennai
Thesis	Micro-Controller Interface for Energy Meter Cum Rate Indicator	PLC and Microcontroller based Electrically Synchronized Lift	Certain Algebraic Procedures for Stability Analysis and Lower Order Model formulation of Linear Time Invariant Systems
Class & % Of Marks	**86.79%** **First Class with Distinction**	**9.98 CGPA** **First Class with Distinction**	**Thesis Highly Commended**

4. EXPERIENCE

EXPERIENCE				
S.No	**Industry/Institution**	**Designation**	**Period**	**No. of Years/ Months**
1.	Pramura Software Private Ltd # 18, Subramaniam Layout Ramanathapuram Coimbatore-641 045.	**Design Engineer**	17.04.1999 to 01.06.2000	1 Year

2.	Karpagam Polytechnic Pollachi Main Road Eachanari (post) Coimbatore-641 021	**Lecturer** Department of Electrical and Electronics Engineering	07.06.2000 to 15.06.2002	2 Years
3.	PSG College of Technology Peelamedu Coimbatore – 641 004	**Lecturer** Department of Computer Science and Engineering	09.06.2004 to 31.05.2005	1 Year
4.	PSG College of Technology Peelamedu Coimbatore – 641 004	**AICTE Research Fellow** Department of Computer Science and Engineering	23.02.2006 to 31.05.2008	2 Years
5.	PSG College of Technology Peelamedu Coimbatore – 641 004	**Lecturer** Department of Instrumentation and Control Engineering	02.06.2008 to 09.08.2008	2 Months
6.	Anna University Regional Campus: Coimbatore Coimbatore – 641 046	Lecturer – selection grade, Department of Electrical and Electronics Engineering	11.08.2008 to 08.12.2008	3 Months
		Assistant Professor Department of Electrical and Electronics Engineering	09.12.2008 to 10.08.2011	2 Years 9 Months
		Associate Professor Department of Electrical and Electronics Engineering	11.08.2011 to Till date	9 Years 4 months
TOTAL				**18 Years 6 Months**

SUBJECTS TAUGHT DURING LAST FIVE YEARS			
Undergraduate		**Post Graduate**	
Programming with 'C'	Operating Systems	Neural Networks and Fuzzy Systems	Soft Computing
Control System Engineering	Instrumentation and control	Operating Systems	Object oriented programming
Object oriented Programming with C++	Digital Electronic Principles	Evolutionary Computing	System Theory
PC Based Instrumentation	Digital Control Engineering	Virtual Instrumentation	Bio Medical Instrumentaion
Design of Intelligent Controllers	Non Linear Control Systems	Control System Design	

5. SPECIAL AWARDS / ACHIEVEMENTS

❖ Recipient of "**NATIONAL AWARD FOR BEST M.TECH THESIS** in Electrical and Electronics Engineering" for the thesis entitled "Programmable Logic Controller and Micro Controller based Two post screw auto lift" from **Indian Society for Technical Education** & **Larsen and Toubro Limited** at the Annual Convention of ISTE, Delhi, 2004.

❖ Recognized as "**BEST ALL ROUNDER**" during M.E Programme in Electrical and Electronics Engineering (Specialization Control Systems), PSG College of Technology, 2004. Also received, "**BEST OUTGOING STUDENT AWARD**".

❖ Received "**G.D.NAIDU MEMORIAL SCHOLARSHIP AWARD**" during B.E Programme (EEE Branch), Government College of Technology, 1997.

❖ Winner in all India competition VI MANTRA 2003 organized by **NATIONAL INSTRUMENTS (India)** and the project "Virtual Instrumentation based Distribution Automation" was selected among top 10 entries.

❖ Received "**BEST PAPER AWARD**" for the paper entitled "A comparative study using genetic algorithm and particle swarm optimization for lower order system modeling" at Southern Regional Conference 2007 organized by **Computer Society of India**, 2-3 February 2007.

6. DETAILS OF RESEARCH FELLOWSHIP

❖ Recipient of Research fund under **NATIONAL DOCTORAL FELLOWSHIP** from All India Council of Technical Education (**AICTE**) carrying a scholar ship of Rs.12,000/- p.m and contingency of Rs.25,000/-p.a. and an institutional head of Rs.20,000 from December 2006 onwards to completion of Research .

Grant Number : 1-10/FD/NDF – PG/ (21)/ 2006-2007 dated : December 05, 2006

7. RESEARCH GUIDANCE - NUMBER OF Ph.D/ M.TECH. (BY RESEARCH) SCHOLARS COMPLETED (All scholars under Anna University)

Number of scholars completed PhD – 21

Number of scholars pursuing PhD   - 6

Sl.No.	Name of the Ph.D scholar	Thesis Title	Faculty of the Research programme	Month and Year of Completion
1.	C.Rani	Intelligent Optimization Techniques for Fuzzy Logic Based Data Classification	Ph.D.- Information and Communication Engineering	May 2012
2.	G.Sugumaran	An algebraic approach for lower order model formulation of linear time invariant systems	Ph.D.- Electrical Engineering	June 2012
3.	B.Arunadevi	Certain Artificial Neural Network Architectures for classification of Brain tumor images	Ph.D.- Information and Communication Engineering	Nov 2013
4.	K.Gnanasheela	Certain Neural Network Models for Wind Speed prediction in Renewable Energy Systems	Ph.D.- Information and Communication Engineering	June 2014
5.	G.Sudha	Certain Intelligent and Mathematical Approaches for analysis and design of non- linear aircraft dynamical systems	Ph.D.- Electrical Engineering	Nov 2014
6.	R.Karthikeyan	Individual Impairments in H.264 Compressed Video and improved rate control algorithm based on annoyance	Ph.D. – Electrical Engineering	Feb 2015
7.	J.Rizwana	Certain Computational Intelligent Approaches for Minimization of Power Losses in Power System Applications	Ph.D.- Electrical Engineering	May 2015

8.	C.V.Subbulakshmi	Certain Hybrid Intelligent Optimization Techniques and Neural Network Architectures for Data Classification	Ph.D.-Electrical Engineering	Dec 2015
9.	B.Goldvin Sugirtha Dhas	Certain Machine Learning Approaches for Boost Inverter Control with Maximum Power Point Tracking in Photovoltaic Systems	Ph.D.-Electrical Engineering	April 2016
10.	N.Manonmani	Certain Hybrid Intelligent Techniques for Fault Ride-Through of Grid Connected Wind Turbines Along with Doubly Fed Induction Generators	Ph.D.-Electrical Engineering	August 2016
11.	V.Ranganayaki	Certain Machine learning approaches for wind speed prediction in renewable energy systems	Ph.D. – Electrical Engineering	November 2016
12.	I.Jasmine Selvakumari Jeya	Certain computational intelligent techniques for classification, authentication and indexing of lung computed tomography images	Ph.D.-Information and Communication Engineering	November 2016
13.	J.Chitra	Certain hybrid evolutionary optimization techniques for solving small scale and large scale unit commitment problems	Ph.D. – Electrical Engineering	January 2017
14.	D.Rasi	Certain improvisations and Analysis of Flower Pollination algorithms for visual based color image segmentation and object detection	Ph.D.-Information and Communication Engineering	April 2017
15.	Naraina Avudayappan	Evolutionary optimization techniques for optimal allocation and coordination control of facts devices in power system applications	Ph.D. – Electrical Engineering	October 2017

16.	K.Indira Devi	Improved image compression using dual tree complex wavelet transform with thresholding	Ph.D.- Information and Communication Engineering	April 2018
17.	M.Madhiarasan	Certain algebraic criteria for design of hybrid neural network models with applications in renewable energy forecasting	Ph.D. – Electrical Engineering	July 2018
18.	I.Baranilingesan	Computational Intelligent techniques for design of model predictive controller in continuous stirred tank reactor	Ph.D. – Electrical Engineering	November 2019
19.	N.Rajasingam	Design and development of optimized neural network controller models for doubly fed induction generator in wind energy conversion systems	Ph.D. – Electrical Engineering	June 2020
20.	K.Maruliyabegam	Hybrid machine learning neural network models for multi-step wind speed forecasting	Ph.D. – Electrical Engineering	August 2020
21.	N.Yogambal Jayalakshmi	Hybrid machine learning models for wind speed prediction in renewable energy applications	Ph.D. – Electrical Engineering	October 2020

8. LAB MANUALS PREPARED

LABORATORY MANUALS PREPARED		
TITLE	**Programming in 'C' Laboratory**	**Microprocessor Laboratory**
YEAR	2004	2004

9. DETAILS OF CONFERENCES/ SEMINARS/ WORKSHOPS/ FACULTY DEVELOPMENT PROGRAMMES ORGANIZED

Sl.No	Conferences/ FDPs/Workshops Organized	Date of Workshop/ Conference/ Seminars/ FDPs	Grant received from Government Agency for conduct of conference/ FDP/ Workshops
Conferences Organized			
1.	First National Conference on "Intelligent Computing and Control for Engineering Applications" – NCICE 09	13th and 14th August 2009	i) CSIR, New Delhi ii) BRNS, Mumbai iii) DRDO, New Delhi iv) ISRO, Bangalore
2.	Second National Conference on "Intelligent Computing and Control for Engineering Applications" – NCICE 11	7th and 8th April 2011	i) CSIR, New Delhi ii) ISRO, Bangalore iii) DRDO, New Delhi
3.	Third National Conference on "Intelligent Computing and Control for Engineering Applications" – NCICE 13	27th and 28th March 2013	DRDO, New Delhi
Faculty Development Programmes Organized			
4.	FDP on "Electric Drives and Control"	11th to 16th July 2011	Anna University of Technology, Coimbatore.
5.	FDP on "Control Systems"	19th to 24th December 2011	Anna University of Technology, Coimbatore.
6.	FDP on "Special Electrical Machines"	10th to 16th June 2013	Anna University, Chennai.
7.	FDP on "Control Systems"	17th to 23rd December 2013	Anna University, Chennai.
Workshops Organized			
8.	Two days National Workshop "Evolutionary Computing Approaches and its Applications".	6th & 7th March 2009	Registration Fee from Participants.
9.	Two day Workshop on "Genetic Algorithm and Particle Swarm Optimization – Hands on training using MATLAB".	1st Slot: 27th & 28th September 2012. 2nd Slot: 23rd & 24th November 2012.	Registration Fee from Participants.

10.	Two days Workshop on "Particle Swarm Optimization and its Variants: Concepts and basic Implementation in MATLAB".	28th February & 1st March 2013.	Registration Fee from Participants.

10. TRAINING COURSES ATTENDED

Sl.No.	Title of the Training Courses Attended	Venue of the Training Programme	Dates of the Training Programme	Duration of the Training Programme
1.	AICTE Sponsored QIP on "Advanced Control Theory for Electrical Engineering Applications".	Coimbatore Institute of Technology, Coimbatore.	13th – 19th October 2014.	7 days
2.	AICTE Sponsored Two Week FDP on "Avenues for Advanced Research in Modern Power Electronics and Hybrid Energy Systems".	Government College of Technology, Coimbatore.	15th – 28th May 2013.	14 days
3.	Two days programme on "MATLAB Programing".	Madras Institute of Technology, Anna University, Chennai.	23rd & 24th June 2012.	2 days
4.	AICTE Sponsored Staff Development Programme on "Soft Computing Techniques in Electrical Systems and Control".	Government College of Technology, Coimbatore.	9th – 22nd May 2012.	14 days
5.	Advanced level intensive workshop on "Neural Networks for Image and Signal Processing".	PSG College of Technology, Coimbatore.	10th & 11th January 2011.	2 days
6.	ICT Academy of TamilNadu - Skill based training Program on "Digital Signal Processing Design".	Anna University, Coimbatore	27th – 29th January 2010.	3 days
7.	Two Days Workshop on "Control Engineering: Teaching, Practice and Research".	Manipal Institute of Technology, Manipal.	3rd – 4th January 2010.	2 days
8.	TCS Sponsored FDP on "Advances in Computer Networking".	PSG College of Technology, Coimbatore.	14th & 15th September 2007.	2 days
9.	National Workshop on "Inculcating Open Source Software Development and its use in Multi- Disciplinary Engineering Domains".	PSG College of Technology, Coimbatore.	8th & 9th March 2007.	2 days

10.	AICTE – ISTE sponsored STTP on "Intelligent Information Agents".	PSG College of Technology, Coimbatore.	24th October – 6th November 2004	14 days

11. DETAILS OF LABORATORY SETUP

S.No	Laboratory Set Up/ Year	Department	Institution
1.	Linear Integrated Circuits Laboratory, 2008	Instrumentation and Control Systems Engineering	PSG College of Technology, Coimbatore
2.	Electric Circuits and Electronic Devices Laboratory, 2008	Instrumentation and Control Systems Engineering	PSG College of Technology, Coimbatore
3.	Process Control Laboratory, 2008	Instrumentation and Control Systems Engineering	PSG College of Technology, Coimbatore
4.	PLC and SCADA Laboratory, 2008	Instrumentation and Control Systems Engineering	PSG College of Technology, Coimbatore
5.	Process Control Laboratory, 2009	Dept. of EEE	Anna University Coimbatore, Coimbatore

12. DETAILS OF MEMBERSHIP IN PROFESSIONAL SOCIETY

Sl.No	Details of Professional Society
1.	Member – IEEE, USA
2.	Life Member – The Indian Society for Technical Education

13. DETAILS OF PUBLICATIONS

No. of Books published	:	**9**
No. of Patents published	:	**1**
No. of International Journals published	:	**94**
No. of National Journals published	:	**11**
No. of International Conference papers	:	**50**
No. of National Conference papers	:	**5**

BOOKS PUBLISHED

1. S. N. Sivanandam and S. N. Deepa "MATLAB with Control System, Signal processing and Inage Processing Toolboxes", WILEY India Ltd, New Delhi, India, 2015.

2. S. N. Sivanandam, S. N. Deepa and J. Rizwana "Power System Analysis and Stability", Vikas Publishing House, 2014.

3. S. N. Sivanandam and S. N. Deepa "Introduction to Genetic Algorithms", Springer Verlag Publishers Ltd, Germany, 2008.

4. S. N. Sivanandam and S. N. Deepa "Principles of Soft Computing", WILEY India Ltd, India, 2007, 3rd Edition (2019).

5. S. N. Sivanandam, S. Sumthai and S. N. Deepa "Introduction to Fuzzy Logic using MATLAB", Springer Verlag Publishers Ltd, Germany, 2007.

6. S. N. Sivanandam and S. N. Deepa, "Problems and Solutions in Control system Engineering", Jaico Publishing House, Mumbai, 2007 – Second reprint.

7. S. N.Sivanandam and S. N. Deepa, "Control System Engineering using MATLAB 2E", VIKAS Publishing company Ltd, New Delhi, India, 2007.

8. S.N.Sivanandam and S. N. Deepa, "Problems and Solutions in Electric Circuit Analysis", Jaico Publishing House, India, 2007, ISBN- 978-8179927380, July 30, 2008

9. S. N.Sivanandam, S. Sumthai and S. N. Deepa, "Introduction to Neural Networks using MATLAB 6.0", Tata McGraw Hill Publications, India, 2006 – Fifth reprint., ISBN – 9780070591127, 28 July 2005

PATENT PUBLISHED

1. Nandhakumar.R, Deepa.S.N and Arunadevi.B, "Automatic deployable and retractable vehicle sheathe system", The Patent Office Journal No. 47/2017 dated 24/11/2017.

PAPERS PUBLISHED

INTERNATIONAL JOURNALS

1. Govindaraj, S., and S. N. Deepa. "Network Energy Optimization of IOTs in Wireless Sensor Networks Using Capsule Neural Network Learning Model." Springer - Wireless Personal Communications (2020): 1-22.
2. Rajesh, R., and S. N. Deepa. "Design of direct MRAC augmented with 2 DoF PIDD controller: An application to speed control of a servo plant." ELSEVIER - Journal of King Saud University-Engineering Sciences 32, no. 5 (2020): 310-320.
3. Revathi, M., I. Jasmine Selvakumari Jeya, and S. N. Deepa. "Deep learning-based soft computing model for image classification application.", (2020), Springer - Soft Computing: 1-20.
4. Ranganayaki, V., S. N. Deepa, and C. Maheswari. "Improved Wind Speed Prediction Using Various Neural Network Models." International Journal of Electrical Engineering and Technology 11, no. 2 (2020).
5. Rajasingam, N., D. Rasi, and S. N. Deepa. "Optimized deep learning neural network model for doubly fed induction generator in wind energy conversion systems." Soft Computing - Springer 23.18 (2019): 8453-8470.
6. Meenaakshi Sundhari, R. P., and S. N. Deepa. "Variant of the charged system search algorithm for the design of optimal linear phase finite impulse response filters." Automatika – Taylor and Francis (2019): 1-8.
7. Deepa, S. N., and D. Rasi. "Global biotic cross-pollination algorithm enhanced with evolutionary strategies for color image segmentation." Soft Computing - Springer 23.8 (2019): 2545-2559.

8. Rani, K. Sasi Kala, and S. N. Deepa. "Hybrid evolutionary computing algorithms and statistical methods based optimal fragmentation in smart cloud networks." Cluster Computing - Springer 22.1 (2017): 241-254.

9. Ranganayaki, V., and S. N. Deepa. "Linear and non-linear proximal support vector machine classifiers for wind speed prediction." Cluster Computing - Springer 22.1 (2019): 379-390.

10. Begam, K. Maruliya, and S. N. Deepa. "Optimized nonlinear neural network architectural models for multistep wind speed forecasting." Computers & Electrical Engineering - Elsevier 78 (2019): 32-49.

11. Madhiarasan, M., and S. N. Deepa. "Determination of Adequate Hidden Neurons in Combo Neural Network Using New Formulation and Fine Tuning with IMGWOA for Enrich Wind-Speed Forecasting." International Journal of Applied Research on Information Technology and Computing 9.1 (2018): 89-101.

12. Rani, K. Sasi Kala, D. Rasi, and S. N. Deepa. "Developed global biotic cross pollination algorithm for CIS." International Journal of Business Intelligence and Data Mining 13.1-3 (2018): 108-128.

13. Deepa, S.N and John Basha Rizwana. "Momentum-based wavelet and double wavelet neural networks for power system applications." Neural Computing and Applications - Springer 29.7 (2018): 495-511.

14. Madhiarasan, M., and S. N. Deepa. "A novel method to select hidden neurons in ELMAN neural network for wind speed prediction application." WSEAS Transactions On Power Systems 13 (2018): 13-30.

15. Deepa, S. N., and I. Baranilingesan. "Optimized deep learning neural network predictive controller for continuous stirred tank reactor." Computers & Electrical Engineering 71 (2018): 782-797.

16. Madhiarasan, M., and S. N. Deepa. "Review of Forecasters Application to Solar Irradiance Forecasting." International Journal of Scientific Research in Computer Science, Engineering and Information Technology 2:2 (2017): 26-30.

17. Baranilingesan, I., and S. N. Deepa. "A Novel Grey Wolf Optimization Approach Based Continuous Stirred Tank Reactor." International Journal of Electronics, electrical and computational system 6:10 (2017): 35-44.

18. Deepa, S. N., and J. Rizwana. "Minimization of losses and FACTS installation cost using proposed differential gravitational search algorithm optimization technique." Journal of Vibration and Control 23.2 (2017): 235-251.

19. Ranganayaki V. and Deepa S. N. "SVM Based Neuro Fuzzy Model for Short Term Wind Power Forecasting", National Academy Science Letters, Springer, 1-4, 2017, IF: 0.345.

20. Madhiarasan, M., and S. N. Deepa. "Comparative analysis on hidden neurons estimation in multi layer perceptron neural networks for wind speed forecasting." Artificial Intelligence Review 48.4 (2017): 449-471.

21. Ranganayaki, V., and S. N. Deepa. "An Efficient Hybrid Neural Network Model for Wind Speed Prediction." Asian Journal of Research in Social Sciences and Humanities 6.10 (2016): 1998-2009.

22. Dhas, Goldvin Sugirtha B., and S. N. Deepa. "Evolutionary Algorithms for PID Controller Design of Boost Inverter in Photovoltaic Applications." Istanbul University-Journal Of Electrical And Electronics Engineering 16.1 (2016): 1995-2002.

23. Madhiarasan, M., and S. N. Deepa. "Comprehensive Study of Various Forecasting Techniques for Forecast of Wind Speed in the Field of Wind Energy System." TIDEE (TERI Information Digest on Energy & Environment) 15.4 (2016).

24. Madhiarasan, M., and S. N. Deepa. "Deep neural network using new training strategy based forecasting method for wind speed and solar irradiance forecast." Middle-East Journal of Scientific Research 24.12 (2016): 3730-3747.

25. Sudha, G., and S. N. Deepa. "Optimization for PID control parameters on pitch control of aircraft dynamics based on tuning methods." Applied Mathematics & Information Sciences 10.1 (2016): 343.

26. Madhiarasan, M., and S. N. Deepa. "New Criteria for Estimating the Hidden Layer Neuron Numbers for Recursive Radial Basis Function Networks and Its Application in Wind Speed Forecasting." Asian Journal of Information Technology 15.21 (2016): 4377-4391.

27. Jasmine Selvakumari Jeya I. and Deepa S. N. "Lung Cancer Classification Employing Proposed Real Coded Genetic Algorithm Based Radial Basis Function Neural Network Classifier", Computational and Mathematical Methods in Medicine, 2016, 2016, IF: 0.887.

28. Naraina Avudayappan and Deepa S. N. "Congestion management in deregulated power system using hybrid cat-firefly algorithm with TCSC and SVC FACTS devices", The International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 35(5), 1524-1537, 2016, Citations: 1, IF: 0.430.

29. Rajasingam N. and Deepa S. N. "PID controller based High Step-Up Converter for a PV System with a Voltage Multiplier Module", International Journal of Engineering Science and Computing, 6(7), 1944-1948, 2016, IF: 5.611.

30. Rajasingam N. and Deepa S. N. "A Unique SEPIC converter based Power Factor Correction method with a DCM Detection Technique", International Organization of Scientific Research Journal of Electrical and Electronics Engineering, 11(4), 01-06, 2016, IF: 3.260.

31. Madhiarasan M. and Deepa S. N. "A novel criterion to select hidden neuron numbers in improved back propagation networks for wind speed forecasting", Applied Intelligence, Springer, 44(4), 878–893, 2016, Citations: 6, IF: 1.215.

32. Madhiarasan M. and Deepa S. N. "Application of Ensemble Neural Networks for Different Time Scale Wind Speed Prediction", International Journal of Innovative Research in Computer and Communication Engineering, 4(5), 9610-9617, 2016, Citations: 2, IF: 6.577.

33. Deepa S. N. and Sudha G. "Longitudinal control of aircraft dynamics based on optimization of PID parameters", Thermophysics and Aeromechanics, Springer Journals, 23(2), 185-94, 2016, IF: 0.365.

34. Ranganayaki V. and Deepa S. N. "An intelligent ensemble neural network model for wind speed prediction in renewable energy systems", The Scientific World Journal, 2016, 2016, Citations: 1, IF: 1.55.

35. Chitra J. and Deepa S. N. "Solving Unit Commitment Problem Employing Proposed Hybrid BBO-discrete Hopfield Neural Network", Research Journal of Applied Sciences, Engineering and Technology, 12(3), 328-38, 2016, Citations: 1, IF: 0.47.

36. Naraina Avudayappan and Deepa S. N. "Optimal Location of TCSC and SVC using Hybrid Fruit Fly Firefly Optimization Algorithm in Transmission System", Asian Journal of Information Technology, 15(16), 2863-2872, 2016, IF: 0.35.

37. Madhiarasan M. and Deepa S. N. "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, 6(12), 951-974, 2016, IF: 4.557.

38. Madhiarasan M. and Deepa S. N. "ELMAN Neural Network with Modified Grey Wolf Optimizer for Enhanced Wind Speed Forecasting", Circuits and Systems, 7(10), 2975-2995, 2016, IF: 0.33.

39. Madhiarasan M. and Deepa S. N. "Performance Investigation of Six Artificial Neural Networks for Different Time Scale Wind Speed Forecasting in Three Wind Farms of Coimbatore Region", International Journal of Innovation and Scientific Research, 23(2), 380-411, 2016, Citations: 1, IF: 2.988.

40. Elakkiah I. S. and Deepa S N. "Implementation of Servo Response Based Fuzzy PID Controller using Jacketed Continuous Stirred Tank Reactor" CIIT International Journal of Fuzzy Systems, 8(5), 144-7, 2016, IF: 0.441.

41. Subbulakshmi C.V. and Deepa S. N. "Medical dataset classification: a machine learning paradigm integrating particle swarm optimization with extreme learning machine classifier", The Scientific World Journal, 2015, 2015, Citations: 8, IF: 1.55.

42. Goldvin Sugirtha Dhas B, Deepa S.N. "Fuzzy logic based dynamic sliding mode control of boost inverter in photovoltaic application", Journal of Renewable and Sustainable Energy, 7(4), 043133, 2015, IF: 0.961.

43. Karthikeyan R., Sainarayanan G. and Deepa S. N. "Perceptual video quality assessment in H. 264 video coding standard using objective modelling", Springer Plus, 3(1), 174, 2014, Citations: 2, IF: 0.982.

44. Arunadevi Baladhandapani, Deepa Subramaniam Nachimuthu. "Evolutionary learning of spiking neural networks towards quantification of 3D MRI brain tumor tissues", SPRINGER - Soft Computing, , 1-14, 2014, IF: 1.304

45. Kothavari K., Arunadevi B. and Deepa S. N. "A hybrid DE-RGSO-ELM for brain tumor tissue categorization in 3D magnetic resonance images", Mathematical Problems in Engineering, 2014, 2014, Citations: 3, IF: 0.644.

46. Arunadevi B. and Deepa S. N. "Multi-dimensional Texture Characterization: On analysis for brain tumor tissues using MRS and MRI", Springer – Journal of Digital Imaging, 27(4), 496-506, 2014, Citations: 4, IF: 1.406.

47. Gnana Sheela K. and Deepa S. N. "New criteria to fix number of hidden neuron in multilayer perceptron neural networks for wind speed prediction in renewable energy systems", Wind and Structures, 18(6), 619-631, 2014, IF: 0.584.

48. Deepa S. N. and Sudha G. "Modeling and approximation of STOL aircraft longitudinal aerodynamic characteristics", Journal of Aerospace Engineering, ASCE Journal, 28(2), 04014072, 2014, Citations: 2, IF: 0.76.

49. Karthikeyan R., Sainarayanan G and Deepa S. N. "Optimal Rate Control in H. 264 Video Coding Based on Video Quality Metric", Research Journal of Applied Sciences, Engineering and Technology, 7(19), 4064-4068, 2014, Citations: 1, IF: 0.47.

50. Deepa S. N. and Kumar P. "Intelligent User Interactive Model for Real Time Text-Graphic Generation", Journal of Theoretical and Applied Information Technology, 64(3), 2014, IF: 0.33.

51. Gnana Sheela K. and Deepa S. N. "Performance analysis of modeling frame work for prediction in wind farms employing artificial neural networks", Soft Computing-Springer, 18(3), 607-615, 2014, Citations: 7, IF: 1.63.

52. Naraina A. and Deepa S. N. "A Modified Current Controller for H-Bridge Active Filter to Reduce Harmonics in Single Phase System", Applied Mechanics and Materials, 573, 122-129, 2014, IF: 0.16.

53. Kothavari K. and Deepa S. N. "Segmentation of Lung on CT Images Using Robust Active Shape Model (RASM) and Tumour Location Using Morphological Processing", Academic Journal of Cancer Research, 7 (2), 73-80, 2014, Citations: 1, IF: 1.54.

54. Deepa, S.N and Sudha G, "Longitudinal Control of an Aircraft Using Artificial Intelligence" International Journal of Engineering and Technology (IJET), 5(6), 4752 – 4760, 2014.

55. Gnana Sheela K. and Deepa, S.N. "Neural Network based Hybrid Computing model for Wind Speed Prediction", Neurocomputing - Elsevier, 122, 425-429, 2013, Citations: 30, IF: 2.392.

56. Deepa S. N. and Rizwana J. "Multi-Machine Stability of a Wind Farm Embedded Power System using FACTS Controllers", International Journal of Engineering and Technology, 5(5), 3914-3921, 2013, Citations: 2, IF: 2.392.

57. Gnana Sheela K. and Deepa, S. N. "A New Algorithm to find number of hidden neurons in Radial Basis Function Networks for wind speed prediction in Renewable Energy Systems", Journal of Control Engineering and Applied Informatics, 15(3), 30-37, , 2013, Citations: 2, IF: 0.620.

58. Arunadevi B. and Deepa S.N. "Extreme Learning Machine for classification of brain tumors in 3D MRI", Informatologia, 46(2), 111-121, 2013, Citations: 1, IF: 0.40.

59. Gnana Sheela K. and Deepa, S. N. "Review on methods to fix number of hidden neuron in Neural Networks", Mathematical Problems in Engineering, 2013, 1-11, 2013, Citations: 99, IF: 0.644.

60. Kothavari K. and Deepa S. N. "A Study of Image Segmentation Techniques on CT Lung Images", International Journal of Emerging Trends in Electrical and Electrronics, 2(4), 63-67, 2013, Citations: 1, IF: 3.84.

61. Gnana Sheela, K. and Deepa, S.N. "A Review on Neural Network Models for wind speed prediction", Wind Engineering, 37(2), 111-123, 2013, Citations: 2, IF: 0.83.

62. Ganesh Kumar P., Rani C. and Deepa S. N. "Formation of Fuzzy If-Then rules and Membership function using enhanced particle swarm optimization", International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 21(01), 103-126. 2013, Citations: 1, IF: 2.25.

63. Arunadevi B. and Deepa S.N. "Texture Analysis for 3D Classification of Brain Tumor Tissues", Przeglad Elecktrotechniczny, 89(4), 338-342, 2013, Citations: 2, IF: 0.38.

64. Rani C. and Deepa S. N. "An intelligent operator for genetic fuzzy rule based system", International Journal of Intelligent Information Technologies, 173-185, 2013, Citations: 9.

65. Arunadevi B. and Deepa S. N. "Brain Tumor Tissue Categorization in 3D Magnetic Resonance Images using improved PSO for Extreme learning machine", Progress In Electromagnetics Research B, 49, 31-54, 2013, Citations: 9, IF: 2.33.

66. Gnana Sheela K. and Deepa, S. N. "Performance Analysis of Modeling Frame work for wind speed prediction in wind farms", Scientific Research and Essays, 7(48), 4138-4145, 2012, Citations: 1, IF: 0.60.

67. Jasper J., Sivakumar R. S., Victoire T. Albert A and Deepa S. N. "Cost optimization of power generation using a differential evolution algorithm enhanced with neighbourhood search operation", International Review of Electrical Engineering, 7(5), 5854-5865, 2012, Citations: 5, IF: 1.25.

68. Rani C., Kumar P. G. and Deepa S. N. "Improved Particle Swarm Optimization for Fuzzy Rule Extraction and Membership Function Tuning", Journal of Information, Intelligence and Knowledge, 4(1), 61-75, 2012.

69. Gnana Sheela K. and Deepa S. N. "An intelligent computing model for wind speed prediction in renewable energy systems", Elsevier Procedia Engineering, 30, 380-385, 2012, Citations: 11, IF: 0.40.

70. Gnana Sheela K. and Deepa S. N. "A Hybrid Neural Network Approach for wind speed prediction", International Journal of Scientific Research, 1(2), 64-67, 2012, IF: 4.176.

71. Gnana Sheela, K. and Deepa, S.N. "An Intelligent Hybrid Neural Network Model in renewable energy systems", ICTACT Journal on soft computing, 2(4), 361-364, 2012, IF: 0.787.

72. Deepa S. N. and Sugumaran G. "New Results on Discrete PID Controller Design by MPSO based Lower Order Model" Journal of Electrical and Control Engineering, 2(1), 22-28, 2012.

73. Deepa S. N. and Sugumaran G. "Model Order Formulation of a Multivariable Discrete system using a Modified Particle Swarm Optimization Approach", Elsevier - Swarm and Evolutionary Computation, 1(4), 204-212, 2011, Citations: 28, IF: 4.49.

74. Deepa, S.N. and Sugumaran, G. "MPSO based Model Order Scheme for Discrete PID Controller Design", International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering, 5(12), 1774-1781, 2011, Citations: 1.

75. Yuvaraj V. and Deepa S. N. "Improving Grid Power Quality With FACTS Device on Integration of Wind Energy System", Student Pulse Academic Journal, 3(4), 1-8, 2011.

76. Deepa, S.N. and Sugumaran, G. "Design of PID Controller for Higher Order Continuous Systems using MPSO based Model Order Formulation Technique", International Journal of Computer, Electrical, Automation, Control and Information Engineering, 5(8), 949-955, 2011, Citations: 4.

77. Gnana Sheela K. and Deepa S. N. "Analysis of computing algorithm using momentum in neural networks", Journal of Computing, 3(6), 2011, Citations: 7, IF: 0.872.

78. Deepa S. N. and Sugumaran G. "MPSO based Model Order Formulation Technique for SISO Continuous Systems", World Academy of Science, Engineering and Technology, 838-843, 2011, Citations: 9.

79. Deepa S. N. and Sugumaran G. "MPSO based Model Order Formulation Technique for Discrete Time Linear System in State Space Form", European Journal of Scientific Research, 58(4), 444-454, 2011, Citations: 7, IF: 0.95.

80. Deepa S. N. and Sugumaran G. "Model Order Formulation of Large Scale Linear Systems using Adjunct Polynomial and MPSO Technique" Advances in Modelling, Automatic Control (Theory and Applications), AMSE Press, France, 66(1), 1-19, 2011.

81. Deepa S. N. and Sugumaran G. "A Modified Particle Swarm Optimization Approach for Model Formulation of Linear Time Invariant Discrete Systems" Advances in Modelling, General Physics and Electrical Applications, AMSE Press, France, 84(2), 1-20, 2011.

82. Deepa S. N. and Arunadevi. B. "Second order sequential minimal optimization for brain tumour classification", European Journal of Scientific Research, 64(3), 377-386, 2011, Citations: 9, IF: 0.95.

83. Deepa S. N. and Sugumaran G. "A Modified Particle Swarm Optimization Approach for Lower Order Model Formulation of Linear Time Invariant Systems", CIIT International Journal of Artificial Intelligent Systems and Machine Learning, 2(2), 33-42, 2010.

84. Deepa S. N. "Investigating Stability of a Fuzzy Logic Controller based Inverted Pendulum Model", International Journal of The Computer, the Internet and Management, 18(2), 55 – 62, 2010, IF: 0.36.

85. Rani C. and Deepa S. N. "PSO with mutation for fuzzy classifier design", Procedia Computer Science 2, 307-313, 2010, Citations: 2, IF: 1.08.

86. Sivanandam S. N. and Deepa S. N. "A comparative study using genetic algorithm and particle swarm optimization for lower order system modelling", International Journal of the Computer, the Internet and Management, 17(3), 1-10, 2009, Citations: 2, IF: 5.49.

87. Sivanandam S. N. and Deepa S. N. "A Novel approach for Root Distribution analysis of Linear Time-invariant systems using Routh and Fuller tables", Asian Journal of control, 11(3), 271-280, 2009, Citations: 1, IF: 1.82.

88. Sivanandam S. N. and Deepa S. N. "A Particle Swarm Optimization approach for Linear Discrete System Model Reduction", Advances in Modelling, AMSE Press, 2008.

89. Sivanandam S. N. and Deepa S. N. "Stability analysis of a class of Artificial Neural Network Systems", International Journal of Information Processing, 2(1), 20-28 2008.

90. Sivanandam. S. N. and Deepa. S. N. "Stability Analysis of a class of discrete fuzzy control system", Association for the Advancement of Modelling and Simulation, 2008.

91. Sivanandam S. N. and Deepa S. N. "Linear System design using Routh Column Polynomials", Songklanakarin Journal of Science and Technology (SJST), 29(6), 1651 – 1659, 2007, Citations: 1, IF: 0.31.

92. Sivanandam S. N. and Deepa S. N. "Formulation of auxiliary polynomials for instability analysis and design of linear systems", Advances in Modelling, AMSE Press, 2007.

93. Sivanandam S. N. and Deepa S. N. "An algebraic procedure for analysis and design of linear time invariant systems employing lower order polynomials", Advances in Modelling, AMSE Press, 2007.

94. Sivanandam S. N. and Deepa S. N. "Stability analysis of a class of Artificial Neural Network Systems", ICGST International Journal on Automatic Control and Systems Engineering, 2007, IF: 1.632.

95. Sivanandam S. N. and Deepa S. N. "A Particle Swarm Optimization approach for Model Reduction of Linear Time Invariant Systems", Advances in Modelling, AMSE Press, 2007.

96. Sivanandam S. N. and Deepa S. N. "The α method of the Routh and Fuller criterion for Root Distribution Analysis" , International Transactions on Computer Science and Engineering, Global Engineering, Science and Technology Society, 8(1), 37 – 51, 2005.

97. Sivanandam S. N. and Deepa S. N. "A Novel approach for inferring instability using Routh Column Polynomials", Advances in Modelling, C, AMSE Press, 60(6), 25-36, 2005.

NATIONAL JOURNALS

1. Gnana Sheela K. and Deepa S. N. "Selection of number of hidden neurons in neural networks in renewable energy systems", Journal of Scientific and Industrial Research, 73, 686-688, 2014, IF: 0.79.

2. Deepa S.N. and Arunadevi B. "A survey on Artificial Intelligence approaches for medical image Classification", Indian Journal of Science and Technology, 4(11), 1583-1595, 2011, Citations: 42, IF: 0.45.

3. Deepa S. N. and Sugumaran G. "Linear Time Invariant Single Input Single Output Discrete Systems Model Formulation using Adjunct Polynomial and Modified Particle Swarm Optimization Technique", Journal of the Institution of Engineers (IE) - Electrical Engineering, 92, 39-48, 2011, IF: 0.15.

4. Deepa S. N. and Sugumaran G. "Model Order Formulation of an Automatic Voltage Regulator in Power System using Modified Particle Swarm Optimization Technique", Indian Journals of Power and River Valley Development, 60(3), 52-58, 2010.

5. Sivanandam S. N. and Deepa S. N. "Linear time invariant discrete multi-variable system model reduction using particle swarm optimization", Journal of the Institution of Engineers (India): Electrical Engineering Division 90, 22-29, 2009. IF: 0.15.

6. Sivanandam S. N. and Deepa S. N. "A Particle Swarm Optimization approach for lower order model reduction of linear time invariant discrete systems", ACCST Research Journal, 4(3), 2008.

7. Sivanandam S. N. and Deepa S. N. "A Novel approach for inferring instability analysis of a hydel power station at lean load condition using Routh column polynomials", Special issue on Hydropower Development - Indian Journal of Power and River Valley Development, 57(7/8), 184-188, 2007.

8. Sivanandam S. N. and Deepa S. N. "Design of Routh Column Polynomials for instability analysis of linear time invariant continuous systems", Indian Journal of Engineering and Materials Sciences, 14, 81-86, 2007, IF: 0.56.

9. Sivanandam S. N. and Deepa S. N. "A Particle Swarm Optimisation for Lower Order System Modelling of an Automatic Voltage Regulator in Power Systems", Indian Journal of Power and River Valley Development, 57(9), 199-204, 2007, Citations: 1.

10. Sivanandam S. N. and Deepa S. N. "Stability Investigation on a Fuzzy Logic Controller based Inverted pendulum", Journal of Computer Science, Karpagam Publications, 2(5), 411-420, 2007.

11. Sivanandam S. N., Sumathi S. and Deepa S. N. "Design and Implementation of PLC cum micro-controller based electrically synchronized lift", Indian Journal of Engineering and Materials Sciences, 12, 269-277, 2005, Citations: 3, IF: 0.56.

INTERNATIONAL CONFERENCES

1. **Deepa, S. N., and N. Rajasingam. "Regulated Jordan—Elman Neural Network-Based Controller Model for Grid-Connected Wind Energy Conversion Systems." In *Advances in Smart Grid Technology*, pp. 63-75. Springer, Singapore, 2020.**

2. Deepa S.N. ; Govindaraj S. ; Anand T.S., "Fuzzy Echo State Neural Network with Differential Evolution framework for Time Series Forecasting", In 2018 17th IEEE International Conference on Machine Learning and Applications (ICMLA), pp. 1322-1327. IEEE, 2018 [Published in IEEE Xplore Digital Library].

3. Deepa, S. N., N. Arulmozhi, B. Gobu, P. Kanimozhi, S. Jaikumar, and Aruldoss Albert Victoire Tangaradjou. "Adaptive Regularized ELM and Improved VMD Method for Multi-step ahead Electricity Price Forecasting." In 2018 17th IEEE International Conference on Machine Learning and Applications (ICMLA), pp. 1255-1260. IEEE, 2018 [Published in IEEE Xplore Digital Library].

4. Deepa, S. N., and B. Shamili Swarupa Rani. "RF energy harvesting using 900MHz of mobile signal frequency to charging the mobile battery." 2017 International Conference on Innovations in Green Energy and Healthcare Technologies (IGEHT). IEEE, 2017 [Published in IEEE Xplore Digital Library].

5. Albin Raj RJ and Deepa S.N. "Modeling and implementation of various controllers used for Quadruple-Tank" International Conference on Circuit, Power and Computing Technologies (ICCPCT), pp. 1-5, 2016, [Published in IEEE Xplore Digital Library].

6. Ramasamy K., Sainarayanan G. and Deepa S. N. "Perceptual video quality based bitrate control for broadband video telephony applications", International Conference on Green Computing Communication and Electrical Engineering (ICGCCEE), 2014, pp. 1-7, [Published in IEEE Xplore Digital Library].

7. Deepa S. N. and Sudha G. "A design of longitudinal control of an aircraft using a fuzzy logic based PID controller", In Proceedings of the Third International Conference on Soft Computing for Problem Solving, pp. 547-559, 2014, [Published in Springer].

8. Kripakaran P., Naraina A and Deepa S. N. "Condition monitoring in induction motor by parameter estimation technique", In Proceedings of the Third International Conference on Soft Computing for Problem Solving , pp. 87-98, 2014. [Published in Springer].

9. Dhas B. G and Deepa S. N. "A hybrid PSO and GSA-based maximum power point tracking algorithm for PV systems", International Conference on Computational Intelligence and Computing Research (ICCIC), pp. 1-4, 2013. [Published in IEEE Xplore Digital Library].

10. Deepa S. N and Rizwana J. "Power system stability by reducing power losses using optimization techniques", International Conference on Computational Intelligence and Computing Research (ICCIC), pp. 1-4, 2013. [Published in IEEE Xplore Digital Library].

11. Nagarjuna G., Jabeen H. N. and Deepa S. N. "A novel switching control strategy in SVM based dual three-phase current and voltage source inverters for two dissimilar motors", International Conference on Energy Efficient Technologies for Sustainability (ICEETS), pp. 1120-1125, 2013. [Published in IEEE Xplore Digital Library].

12. Jabeen H. N., Nagarjuna G., Deepa S N., and Anoop K. "A new control strategy for grid interfacing inverter in wind energy applications", International Conference on Energy Efficient Technologies for Sustainability (ICEETS), 1238-1242, 2013. [Published in IEEE Xplore Digital Library].

13. Gnana Sheela K. and Deepa S. N. "Comparative analysis of predictive models using ANN" International conference on Innovations in Communication, Information and Computing (ICICIC), 2013.

14. Deepa S. N and Rizwana J. "Power System Stability by Minimizing Reactive Power", Proceedings of Second International Conference on Innovative Research in Engineering and Technology (ICIRET), 2013.

15. Deepa S. N. and Sudha G. "A Design of Longitudinal Control of an Aircraft Using A Fuzzy Logic Based PID Controller", Proceedings of Third International Conference on Soft Computing for Problem Solving, 2013.

16. Deepa S. N and Rizwana J. "Power System Stability by Reducing Power Losses using Optimization Techniques", International Conference on Computational Intelligence and Computing Research (ICCIC), pp. 1-4, 2013. [Published in IEEE Xplore Digital Library].

17. Naraina A. and Deepa S. N. "Condition Monitoring in Induction Motor by Parameter Estimation Technique", Proceedings of Third International Conference on Soft Computing for Problem Solving, 2013.

18. Deepa S. N. and Aruna devi B. "Artificial Neural Networks design for Classification of Brain Tumor", International Conference on Computer Communication and Informatics (ICCCI), pp. 1036-1041, 2012. [Published in IEEE Xplore Digital Library].

19. Gnana Sheela K. and Deepa S. N. "An Intelligent hybrid neural network model in Renewable Energy Systems", International Conference on Computer Technology and Science (ICCTS), 2012 [Published in IACSIT Press, Singapore]

20. Gnana Sheela K. and Deepa S. N. "New Neural Network architecture in Renewable Energy Systems", International Conference on Computational Science and Its Applications (ICCSA), 2012 [Published in IEEE Xplore Digital Library]

21. Gnana Sheela K. and Deepa S. N. "An Intelligent architecture in Renewable Energy Systems", International Convention cum Pre-Conference workshop on Innovations in Engineering and Technology of Sustainable Development (IETSD), 2012.

22. Sheela K. G. and Deepa S. N. "An efficient hybrid neural network model in renewable energy systems", International Conference on Advanced Communication Control and

Computing Technologies (ICACCCT), pp. 359-361, 2012 [Published in IEEE Xplore Digital Library].

23. Subbulakshmi C. V., Deepa, S.N. and Malathi N. "Extreme Learning Machine for Two Category Data Classification", International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), pp. 458-461, 2012, [Published in IEEE Xplore Digital Library].

24. Subbulakshmi, C. V., Deepa, S. N. and Malathi, N. "Comparative Analysis of XLMiner and WEKA for Pattern Classification", International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), pp. 453-457, 2012, [Published in IEEE Xplore Digital Library].

25. Sheela K. G. and Deepa S. N. "An efficient computing model for renewable energy systems", International Conference on Computing, Electronics and Electrical Technologies (ICCEET), pp. 409-412, 2012. [Published in IEEE Xplore Digital Library].

26. Deepa S. N. and Aruna devi B. "Artificial Neural Networks design for Classification of Brain Tumor", International Conference on Computer Communication and Informatics (ICCCI), pp. 1036-1041, 2012 [Published in IEEE Xplore Digital Library].

27. Deepa, S.N and Aruna devi B. "Modified Radial Basis Function Network for Brain Tumor Classification ", International Conference on Swarm , Evolutionary and Memetic Computing (SEMCCO), pp. 366-371, 2011 [Published in Springer Part I 7076] [Published in Springer Part I 7076].

28. Parassuram A., Deepa S. N. and Karthick M. "A hybrid technique using particle swarm optimization and differential evolution to solve economic dispatch problem with valve-point effect", International Conference on Recent Advancements in Electrical, Electronics and Control Engineering (ICONRAEeCE), pp. 51-56, 2011 [Published in IEEE Xplore Digital Library].

29. Pratheepraj E., Abraham A., Deepa S. N. and Yuvaraj V. "Very short term wind power forecasting using PSO-neural network hybrid system" International Conference on Advances in Computing and Communications, pp. 503-511, 2011 [Published in Springer Berlin Heidelberg].

30. Rani C. and Deepa S. N. "A Modified form of mutation for genetic fuzzy classifier design", International conference on Sustainable Energy and Intelligent Systems (SEISCON), pp. 876-881, 2011 [Published in IET Inspec]

31. Deepa S. N. and Venkatesan S. "A Novel Simulator Using Minimal Resource Allocation Network and Its Application in Industrial Methanol Oxidation to Formaldehyde", International conference on Process Automation, Control and Computing (PACC), pp. 1-6, 2011 [Published in IEEE Xplore Digital Library].

32. Deepa S. N. and Aruna devi B. "Neural Networks and SMO based Classification for brain tumor", International conference on World Congress on Information and Communication Technologies (WICT), pp. 1032-1037, 2011 [Published in IEEE Xplore Digital Library].

33. Gnana Sheela K. and Deepa S. N. "An Intelligent Computing Model for Wind Speed Prediction in Renewable Energy Systems", International conference on Communication Technology and System Design (ICCTSD), 30, pp. 380-385, 2011 [Published in Elsevier, Procedia Engineering].

34. Yuvaraj V., Deepa S. N., Rozario A. R. and Kumar M. "Improving grid power quality with FACTS device on integration of wind energy system", In Modelling Symposium (AMS), IEEE Fifth Asia 2011, pp. 157-162, 2011 [Published in IEEE Xplore Digital Library].

35. Gnana Sheela K. and Deepa S. N. "Neural Network Models for wind speed prediction in Renewable Energy Systems", International conference on Computational Intelligence and Computing Research (ICCIC), 2011 [Published in IEEE Xplore Digital Library].

36. Deepa S. N. and Sugumaran G. "Model Order Formulation using Modified Particle Swarm Optimization for Aircraft Flight Control System", International Conference on Intelligent Design and Analysis of Engineering Products, Systems and Computation (IDAEPSC), 2010.

37. Deepa S. N. and Sugumaran G. "Relative Mapping Error of Linear Time Invariant Systems Caused by Modified Particle Swarm Optimization", International Conference on System Dynamics and Control (ICSDC), pp. 283- 289, 2010.

38. Deepa S. N. and Sugumaran G. "Design of Digital IIR Filters using MPSO based Order Formulation Technique", International Conference on Electrical Power and Energy Systems (ICEPES), pp. 242- 249, 2010.

39. Deepa S. N. and Sugumaran G. "Evolutionary Computing Techniques for Model Order Formulation of Linear Time Invariant Discrete Systems", International conference on Computational Intelligent and Computing Research (ICCIC), pp.1-4, 2010 [Published in IEEE Xplore Digital Library].

40. Deepa S. N. and Sugumaran G. "A Modified Particle Swarm Optimization for Lower Order Model Formulation of Linear Time Invariant Continuous Systems", International conference on Innovative Computing Technologies (ICICT) , pp. 1 –5, 2010 [Published in IEEE Xplore Digital Library].

41. Rani C. and Deepa S. N. "Design of Optimal Fuzzy Classifier System using Particle Swarm Optimization", International conference on Innovative Computing Technologies (ICICT), pp.1-6, 2010 [Published in IEEE Xplore Digital Library].

42. Deepa S. N. and Sugumaran G. "Order Formulation of Linear Time Invariant Systems using Modified PSO Approach", International conference on Power, Control and Embedded Systems (ICPCES), pp. 351-360, 2010.

43. Rani C. and Deepa S. N. "A Novel Elite PSO for Optimal Design of Fuzzy Classifier System", International Conference on Intelligent Information Systems and Management (IISM), pp.1-5, 2010. [Published by CiiT]

44. Rani C. and Deepa S. N. "Using Selection to Improve PSO based Fuzzy Classifier Design", International Conference on Intelligent Design and Analysis of Engineering Products, Systems and Computation (IDAEPSC), 2010.

45. Rani C. and Deepa S. N. "Crossover Operators to Enhance PSO-Fuzzy Classifier Design", International Conference on Advances in Information, Communication Technology, and VLSI design (ICAICV), 2010.

46. Rani C. and Deepa S. N. "PSO with Mutation for Fuzzy Classifier Design", International Conference & Exhibition on Biometric Technology (ICEBT), 2, pp. 307-313, 2010 [Published in Elsevier, Procedia Computer Science].

47. Sivanandam S. N. and Deepa S.N. "Stabilization of an inverted pendulum motion using fuzzy logic controller", International Conference on Information Processing (ICIP), pp. 347 – 356, 2007.

48. Sivanandam S. N. and Deepa S.N. "A particle swarm optimization algorithm for lower order model reduction of linear time invariant continuous systems", International Conference on Emerging Trends in High Performance Architecture, Algorithms and Computing (HiPAAC), pp.171 - 176, 2007.

49. Sivanandam S. N. and Deepa S.N. "Particle Swarm Optimization for linear discrete system model reduction", International Conference on Modeling and Simulation, 2, pp. 947 - 952, 2007.

50. Sivanandam S. N. and Deepa S. N. "A genetic algorithm and particle swarm optimiztion approach for lower order modeling of linear time invariant discrete systems", International conference on Computational Intelligence and Multimedia Applications (ICCIMA), 1, pp. 443 - 447, 2007 [Published in IEEE Xplore Digital Library].

51. Sivanandam S. N., Sumathi S. and Deepa S.N. "Adaptive hybrid control using a recurrent neural network for a linear synchronous motor servo drive system", Proceedings of Eleventh International Conference on Advanced Computing and Communications (ADCOM), pp..39, 2003.

NATIONAL CONFERENCES

1. Gnana Sheela, K. and Deepa, S.N. "National Conference on Evaluation of hybrid Model in wind farms", Computing concepts in current trends (NC4T), 2012.

2. Gnana Sheela K. and Deepa S. N. "Computing Models for wind speed prediction in Renewable Energy Systems", National Conference on Computer Science & Engineering (NCCSE), 2011.

3. Deepa S. N. and Sugumaran G. "Modified Particle Swarm Optimization Approach for Model Order Formulation in Human Respiratory Control System", 34th National System Conference (NSC) in National institute of Technology, 2010.

4. Sivanandam S. N. and Deepa S. N. "A comparative study using genetic algorithm and particle swarm optimization for lower order system modeling", Southern Regional Conference, Computer Society of India, 2007.

5. Sumathi S. and Deepa S. N. "Mechatronic design and supervisory control theory for industrial automation", National Conference on Emerging trends in Engineering and Technology: impact and innovation, pp.10-18, 2003.
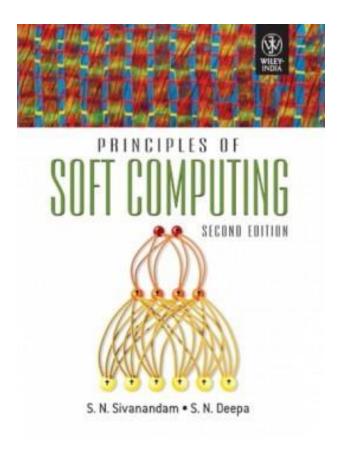
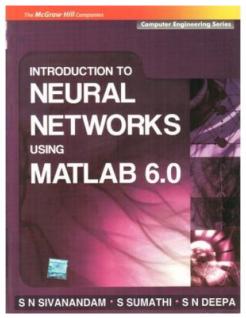## 14. ADDITIONAL INFORMATION FOR CONSIDERATION

- ➢ H-index of Research Publication: **18**

- ➢ i10-index of Research Publication: **38**

- ➢ Overall Citations on the Publications as on date: **7096**

- ➢ Book Authored "Introduction to Fuzzy Logic using MATLAB" with Springer has gone to **Korean Translation**.

- ➢ Book Authored "Introduction to Neural Networks with MATLAB 6.0" with Tata McGraw Hill Publishing Company, New Delhi is currently on **19th reprint**.

- ➢ Books Published are currently used in various Universities as Text Books (JNTU - AndraPradesh, Punjab University, Delhi University – Reference: Respective University Websites).

- ➢ Editorial Board Member - ICTACT Journal of Soft Computing, ICT Academy of TamilNadu, A Government Organization, Chennai.

- ➢ Reviewer – Elsevier – Swarm and Evolutionary Computation.

- ➢ Reviewer – IEEE Transactions on Reliability.

- ➢ Reviewer – IEEE Transactions on Fuzzy Systems.

- ➢ Reviewer – Elsevier – AIMS Engineering Journal.

- ➢ Reviewer – Elsevier – Expert Systems and Engineering Applications.

- ➢ Reviewer – Elsevier – Bio Medical Signal Processing.

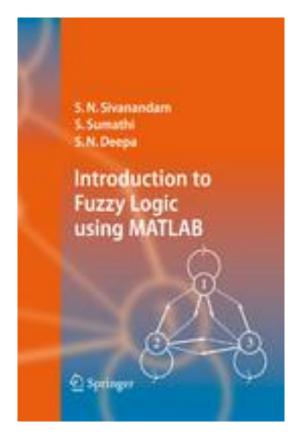- ➢ Reviewer for IET Image Processing Journal and Indersceince Journal.
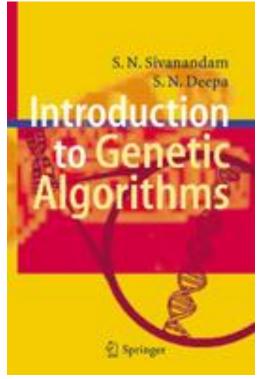
15. RESEARCH AREAS

- ➢ Soft Computing Approaches
- ➢ Optimization Techniques
- ➢ Information processing
- ➢ Linear and Non-linear Control Systems
- ➢ Optimal Control Systems
- ➢ Evolutionary Strategies
- ➢ Modeling and Simulation
- ➢ Adaptive Control Systems
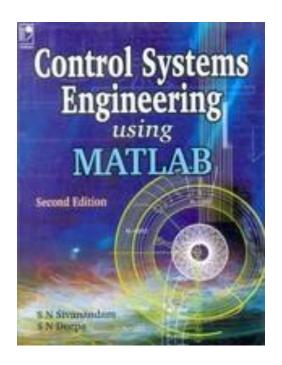- ➢ Data Mining and Data Warehousing

16. COVER PAGES OF BOOKS PUBLISHED

PROBLEMS & SOLUTIONS IN
ELECTRIC
CIRCUIT
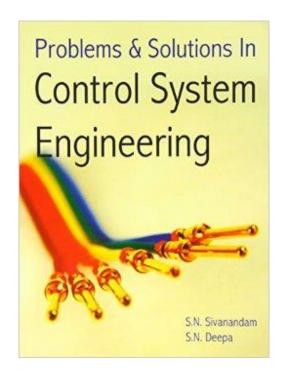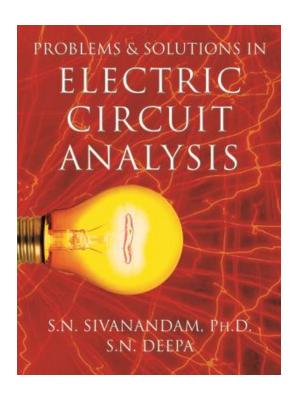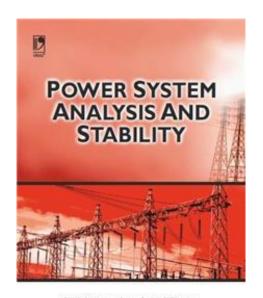ANALYSIS

S.N. SIVANANDAM, Ph.D.
S.N. DEEPA

POWER SYSTEM
ANALYSIS AND
STABILITY

S N Sivanandam | S N Deepa
J Rizwana

MATLAB®

with CONTROL SYSTEM, SIGNAL PROCESSING
& IMAGE PROCESSING TOOLBOXES

Dr. S. N. Sivanandam
Dr. S. N. Deepa

WILEY