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Present Position

Assistant Professor, Department of Instrumentation Engineering, , Anna University, Chennai from August-2006.

Present Additional Responsibility

- Student Counsellor, Department of Instrumentation Engineering, Anna University, Chennai from August-2006.

Previous Positions

- Assistant Professor, Department of Instrumentation Engineering, Madras Institute of Technology, Anna University, Chennai from August-2006.

Previous Additional Responsibility

- Student Counsellor, , Anna University, Chennai from August-2006.

Other Employment

- Lecturer, Dept Electronics for 1 year 2 months 21 days.
- Lecturer, St Peters Engineering College for 2 years 11 months 13 days.
- Lecturer, Jayamatha Engineering College for 1 year 2 months 21 days.

Degree

- ❖ M.E. in Applied Electronics, Coimbatore institute of Technology, Bharathiyar University (2000 - 2002).
- ❖ B.E. in ELECTRONICS AND INSTRUMENTATION ENGG , Arulmigu Kalasalingam College of Engineering, Madurai Kamaraj University (1992 - 1996).

Research Degree

- ❖ Ph.D. in Fault tolerant control from Faculty of Information and communication Engg., MIT Campus, Anna University (2006 - 2011).
Title: Multi-objective reconfigurable control schemes for MIMO system.

Area of Specialisation

- > Modeling and control

Membership in Professional Organization

- > International of Society of Automation

Research Guidance

Number of Ph.D Scholars Guiding : 1
Number of M.E./ M.Tech. Projects : 12
Guided
Number of M.E./ M.Tech. Projects : 1
Guiding

Papers Published in Journals

Research Papers Published in International Journals : 8
Research Papers Published in National Journals : 0

1. Sutha S and Thyagarajan T, " Multi-objective reconfigurable controller design for three-tank system using parametric eigenstructure assignment", Control and Intelligent Systems, published by Acta press. Vol. 39, Issue 1, pp. 12 to 22 (2011).
2. Sutha S and Thyagarajan T, " Multi-objective dynamic state and output feedback controllers for MIMO system using evolutionary algorithm and eigenstructure assignment", International Journal of Advanced Mechatronic Systems, published by Inderscience. Vol. 3, Issue 2, pp. 129 to 138 (2011).
3. Sutha S Lavanya S and Thyagarajan T, "Multi-objective reconfigurable output feedback controller for MIMO system using MOEAs", International Journal of Chemical Engineering Communications, published by Taylors and Francis. Vol. 199, Issue 9, pp. 1125-1143 (2012).
4. K Manickavasagam,S. Sutha,K. Kamalanand, " An Automated system based on 2D emperical mode decomposition and k-means clustering for classification of Plasmodium speciesin thin blood smear images", BMC Infectious Deseases, published by BioMed central. Vol. 14, pp. 13 (2014).

5. K Manickavasagam, S. Sutha, K. Kamalanand, "Development of systems for classifications of different plasmodium species in thin blood smear microscopic images ", Journal of Advanced Microscopic research, published by American Scientific Publishers. Vol. 9, Issue 2, pp. 86-92 (2014).
6. A Manonmani¹, T Thyagarajan, M Elango and S Sutha, " Modelling and control of greenhouse system using neural networks", Transactions of the Institute of Measurement and Control 1–12, published by SAGE Journals . pp. 1-12 (2016).
7. A Manonmani¹, T Thyagarajan, S Sutha, V Gayathri, "Design of Soft Computing based Optimal PI controller for Green house system", Circuits and Systems, published by Scientific Research Publishing. Vol. 7, Issue 11, pp. 3431-3447 (2016).
8. A. Manonmani / T. Thyagarajan / S. Sutha, " Evolutionary Algorithm-Based Multi-objective Control Scheme for Food Drying Process", International Journal of Food Engineering, published by DE GRUYTER. Vol. 13, Issue 1, (2017).

Papers Presented in Programmes

Research Papers Presented in International Programmes : 3
Research Papers Presented in National Programmes : 0

1. Sutha S and Thyagarajan, "Design of reconfigurable controller against actuator failure for a three-tank using Eigenstructure assignment technique" presented in a International level conference on TIMA, organised by Dept of Instrumentation Engg MIT Campus Anna University, India from 04-Jan-2009 to 06-Jan-2009.
2. "Eigenstructure assignment based multi-objective dynamic state feedback controller for MIMO system using NSGA- II" presented in a International level conference on ICMIC, organised by Okayama University, Japan from 17-Jul-2010 to 19-Jul-2010.
3. S. Nambi Narayanan , G. Divya , Dr.S.Sutha (Assistant Professor), "Development of Nonlinear Models for Human Heart" presented in a International level conference on TIMA-2017, organised by MIT, Anna University, India from 06-Jan-2017 to 08-Jan-2017.

Programme Organized

1. Coordinator, National level Short Course on "IC 1002 Adaptive Control " from 03-May-2010 to 09-May-2010.
2. Coordinator, National level Short Course on "Digital Control System" from 02-Dec-2013 to 08-Dec-2013.
3. Coordinator, National level Short Course on "Advanced Control System " from 25-May-2015 to 31-May-2015.
4. Coordinator, National level workshop on "Trends in Intelligent Instrumentation " from 26-Aug-2016 to 27-Aug-2016.
5. Co _Ordinator, International level workshop on "Advanced Process Control" from 06-Jan-2017 to 08-Jan-2017.

Programme Attended

1. Participated in a International level conference on "TIMA" organized by MIT Campus Anna University, India from 22-Dec-2013 to 24-Dec-2013.

Experience Abroad

1. Visited Okayama University, Japan from 17-Jul-2010 to 19-Jul-2010. Purpose of visit :conference attended.

Invited Lectures

1. Delivered a Lecture on "Response of second order system" in Guest lecture organized by Jerusalem College of Engineering, Pallikkaanai (16-Jul-2015).
2. Delivered a Lecture on "Design of state observer and State feedback with integral control" in FDP organized by Sri Sivasubramaniya Nadar College of Engineering, Old Mahabalipuram Road, Kalavakkam, Tamil Nadu 603 (19-Jan-2016).
3. Delivered a Lecture on "Discrete Time System and Signal Processing" in Guest Lecture organized by Prathyusha Engineering College, Aranvoyaluppam, Poonamallee-Tiruvallur Road, Tir (17-Mar-2016).
4. Delivered a Lecture on " Introduction to State Feedback controllers and design for any one application" in Workshop on STATE FEEDBACK CONTROLLERS FOR POWER ELECTRONICS & POWER SYSTEMS APPLICATIONS organized by Sri Venkateswara college of Engineering, Pennalur Sriperumbudur-602117. Tamilnadu, India. (30-Sep-2016).
5. Delivered a Lecture on "Stability of Feedback Amplifiers" in ECE organized by Velammal Engineering College, Chennai-66 (22-Mar-2017).
6. Delivered a Lecture on "Control system for Industrial applications" in ECE organized by Hindustan Institute of Technology, Kelambakkam (24-Mar-2017).