

Cellphone : 9444104850

e-Mail ID : thyagu@annauniv.edu

Address : 19/11, West Karikalan 3rd Street, Adambakkam,
Chennai-600 088



Present Position

Professor, Department of Instrumentation Engineering, Madras Institute of Technology, Anna University, Chennai from October-2004.

Present Additional Responsibility

- Director, Internal Quality Assurance Cell, Anna University, Chennai from December-2015.
- Director, Centre for University Industry Collaboration, Anna University, Chennai from May-2013.
- Coordinator, NAAC, Anna University, Chennai from August-2012.
- Co-coordinator, National Hub for Healthcare Instrumentation Development, Anna University, Chennai from March-2011.

Previous Additional Responsibility

- Professor Of Planning And Development, Anna University, Anna University, Chennai during March-2013 and May-2013.
- Director, University Library, Anna University, Chennai from May-2010.
- Head Of The Department, Department of Instrumentation Engineering, Anna University, Chennai during December-2004 and May-2010.

Other Employment

- Lecturer, Islamiah Institute of Technology for 7 years 4 months.
- Lecturer, Crescent Engineering College for 1 year & 10 months.
- Senior Lecturer, Crescent Engineering College for 3 years & 8 months.
- Assistant Professor & HOD - ICE, Crescent Engineering College for 3 years & 10 months.
- Professor & HOD - EEE, Crescent Engineering College for 3 years & 10 months.
- Professor & Dean, Crescent Engineering College for 2 years 3 months.

Degree

- ❖ M.E. in Power Engineering, Faculty of Technology, Maharaja Sayaji Rao University (1989 - 1991).
- ❖ B.Tech. in ELECTRICAL AND ELECTRONICS ENGINEERING , Government College of Engineering, Ananthapur, JawaharlalNehru Technological University (1979 - 1983).

Research Degree

- ❖ Ph.D. in Inteligent control of air heating system from Faculty of Electrical Engineering, Madras Institute of Technology, Anna University (1995 - 2000).
Title: Investigation on intelligent control strategies for air heating system.

Area of Specialisation

- Modelling and control, Autotuning, Applied Soft computing, healthcare inst

Membership in Professional Organization

- IEEE, ISTE, IE(I), ISOI, SSI, QCFI, C.Engg

Research Guidance

Number of Ph.D Scholars Guided	: 9
Number of Ph.D Scholars Guiding	: 2
Number of M.E./ M.Tech. Projects Guided	: 10
Number of M.E./ M.Tech. Projects Guiding	: 1
Number of Ph.D Scholars Guided as Joint-Supervisor	: 3

Papers Published in Journals

Research Papers Published in International Journals	: 43
Research Papers Published in National Journals	: 2

1. Sabitha Ramakrishnan and Thyagarajan, T., "Fuzzy Logic Based Transmission Power Control algorithm for Energy Efficient MAC Protocol in Wireless Sensor Networks", Journal of Communication Networks and Distributed Systems (IJCNDs) - special issue on "Optimization Issues in Energy Efficient Distributed Systems", published by Inder science Publishers, Switzerland, UK.
2. S. Ramareddy, C. Chellamuthu, T. Rangasamy, and T. Thyagarajan, "Microprocessor based ac to ac converter for wind power generator", TERI Journal, India, Vol. 4, Issue 1, pp. 62 (1994).

3. T. Thyagarajan, R. C. Panda, P.G.Rao, J. Shanmugan, and M.Ponnaivaikko, " Model based controller for drying process", Hungarian Journal of Industrial chemistry, Vol. 25, Issue 10, pp. 225-260 (1997).
4. T. Thyagarajan, R. C. Panda, J. Shanmugam, P. G.Rao, and M.Ponnaivaikko, "Development of ANN model for non-linear drying process", Drying Technology, Vol. 15, Issue 10, pp. 2527-2540 (1997).
5. T. Thyagarajan, J. Shanmugam, R. C. Panda, M.Ponnaivaikko, and P.G.Rao, "Artificial neural networks principle and application to model based control drying systems - a review", Drying Technology, Vol. 16, Issue 6, pp. 931-966 (1998).
6. Mala, R. C. Panda, T. Jaysingh and T. Thyagarajan, "Model predictive control of a multivariable process using neural networks (SISIR KUMAR AWARD – BEST PAPER)", Indian Chemical Engineer, Vol. 40, Issue 1, pp. 24- 34 (1999).
7. T. Thyagarajan, J. Shanmugam, R. C. Panda, and M.Ponnaivaikko, "Neuro fuzzy controller for temperature regulation of air heat plant", Control and intelligent system, Vol. 27, Issue 1, pp. 17-25 (1999).
8. T. Thyagarajan, J. Shanmugam, M.Ponnaivaikko, and R. C. Panda, " Hybrid intelligent controller for air heat plant using fuzzy logic and genetic algorithm", Drying Technology, Vol. 18, Issue 1, pp. 165-184 (2000).
9. P. Yadgiri, T. Thyagarajan, R. C. Panda and P. G.Rao, " pH control system based on neuro-fuzzy approach", Modeling and analysis, Vol. 43, Issue 3, (2000).
10. T.Thyagarajan, C.C., " Assessment of controller performance: a relay feedback approach", Chemical Engg. Science , Vol. 59, pp. 497-512 (2003).
11. T.Thyagarajan and C.C.Yu., "Improved autotuning using shape factor from relay feedback", I&EC, Vol. 42, Issue 20, pp. 4425-4440 (2003).
12. T. R. Rangasamy, J. Shanmugan, T. Thyagarajan, and K. P. Mohamed, "Cascaded fuzzy controller for combustion control of utility boiler", Chem.AMSE, (2005).
13. Suja Mani Malar R. and Thyagarajan T., " Design of Decentralized fuzzy controller for Quadruple Tank process", Computer Science and Network security, Vol. 8, Issue 11, pp. 163-168 (2008).
14. Geetha Ramadas, Thyagarajan, T. and Vedam Subrahmanyam, "Robust Performance of Induction Motor Drives", International Journal of Recent Trends In Engineering, Vol. 1, Issue 3, pp. 25-29 (2009).
15. Sabitha Ramakrishnan and Thyagarajan, T., "Energy Efficient Medium Access Control for Wireless Sensor Networks", International Journal of Computer Science & Network Security, Korea, (2009).
16. Geetha Ramadas, Thyagarajan, T., Vedam Subrahmanyam, and Shimila, R., "Torque Ripple Minimization in Doubly Fed Induction Machine used in Wind Mills With Artificial Neural Network", Journal of Applied and Theoretical Information Technology, Vol. 17, Issue 1, pp. 053-057 (2009).

17. Ashwin Kumar Sahoo and Thyagarajan, T., "Transient Studies of FACTS and Custom Power Equipment", International Journal of Recent Trends in Engineering, published by Academy Publisher, Finland. Vol. 1, Issue 3, pp. 81-86 (2009).
18. Suja Mani Malar R. and Thyagarajan T., "Modeling and control of non-linear system", NICE journal of Emerging Technologies, (2009).
19. Suja Mani Malar R. and Thyagarajan T., "Design of Fuzzy Pre compensated PI controllers for Quadruple Tank system", Recent Trends in Engineering, Vol. 2, Issue 5, pp. 188-192 (2009).
20. Suja Mani Malar R. and Thyagarajan T., "Modeling of CSTR using soft computing techniques", International journal of simulation and modeling, Vol. 8, Issue 3, pp. 145-155 (2009).
21. Suja Mani Malar R. and Thyagarajan T., "Modeling of Quadruple tank process using soft computing techniques", European Journal of Scientific Research, Vol. 29, Issue 2, pp. 249-264 (2009).
22. Suja Mani Malar R. and Thyagarajan T., "ANN based modeling and control of CSTR", American Journal of Engineering and Applied Sciences, Vol. 2, Issue 1, pp. 229-235 (2009).
23. Narmadha, T. V. and Thyagarajan, T., "Speed control of PMLD Drive with gate control method using conventional and Fuzzy Controller", International Journal of Engineering Science and Technology (IJEST) ISSN:0975-5462, Vol. 2, Issue 11, pp. 6663 - 6674 (2010).
24. Narmadha, T. V. , Thyagarajan, T. and Aishwarya Krishnan, "Intelligent Controller for Three Level Inverter fed PMLD Drive", International journal of Power systems and power electronics ISSN – 0973 - 8886, Vol. 3, Issue 1, pp. 27 - 36 (2010).
25. Narmadha, T. V. and Thyagarajan, T., "Modeling and Simulation of Three Level Inverter fed PMLD Drive using AI Technique", International Journal of Industrial Electronics and Control ISSN 0974 - 2220, Vol. 2, Issue 1, pp. 49 - 62 (2010).
26. Ashwin Kumar Sahoo and Thyagarajan, T., "Modeling and Analysis of Custom Power Devices in Distribution Network to Improve Power Quality", International Journal of Distributed Energy Resources, Germany, Vol. 6, Issue 3, pp. 189-207 (2010).
27. Narmadha, T. V. and Thyagarajan, T., "Fuzzy Logic Based Position-Sensorless Speed Control of Multi Level Inverter Fed PMLD Drive", Journal of Advances in Information Technology, Vol. 1, Issue 1, pp. 52 - 58 (2010).
28. Geetha Ramadas, Thyagarajan, T. and Sridhara Rao, G., "Energy Efficient Design of Induction Motor for Tailor Made Applications", International Journal of Recent Trends in Engineering and Technology, Vol. 4, Issue 4, pp. 150-154 (2010).
29. Ashwin Kumar Sahoo, Dash, S. S. and Thyagarajan, T., "An Improved UPFC Control to Enhance Power System Stability", Modern Applied Science, published by Canadian centre for science and education. Vol. 4, Issue 6, pp. 37-48 (2010).
30. Ashwin Kumar Sahoo, Dash, S. S. and Thyagarajan, T., "Power Flow including FACTS devices", Journal of Applied Science, Singapore, Vol. 10, Issue 15, pp. 1563-1571 (2010).

31. Kamala, N., Thyagarajan, T. and Renganathan, S., "Multivariable control of Nonlinear process", International Journal of Recent Trends in Engineering and Technology, published by ACEEE, USA. Vol. 4, pp. 106-110 (2010).
32. Sabitha Ramakrishnan and Thyagarajan, T., "Performance enhancement of Fuzzy Logic based Transmission Power Control in Wireless Sensor Networks using Markov based RSSI prediction", European Journal of Scientific Research (EJSR), UK, Vol. 59, Issue 1, pp. 68-84 (2011).
33. Narmadha, T. V. and Thyagarajan, T., "Digital Simulation of PMBLDC Motor Drive With Power Factor Correction", Bangladesh Journal of Scientific and Industrial Research., Vol. 4, Issue 64, pp. 457-464 (2011).
34. 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, Vol. 3, Issue 2, (2011).
35. Sutha, S. and Thyagarajan, T., "Multi-objective reconfigurable controller design for three-tank system using parametric eigenstructure assignment", Control and Intelligent Systems, Vol. 39, Issue 1, pp. 12-22 (2011).
36. V.R.Ravi, and T. Thyagarajan, " Real coded GA tuned practical fuzzy controller for two tank interacting system", Mediterranean Journal of Measurement and Control, ISSN:1743-9310, SNIP:0.174 SJR:0.040, (2012).
37. Esakkiappan, C. and Thyagarajan, T., "Improved Auto Tuning for Integrating Process with Time Delay using Relay Feedback Test", Mediterranean Journal of Measurement and Control, , ISSN:1743-9310, SNIP:0.174 SJR:0.040, (2012).
38. Esakkiappan, C., Thyagarajan, T. and Sharmila, G. V, "Identification of Model structure from the Relay Response using Artificial Intelligence based Pattern Recognition Techniques", European Journal of Scientific Research, ISSN: 1450-216X, SNIP:0.047 SJR:0.034, Vol. 74, Issue 1, pp. 61-68 (2012).
39. Esakkiappan, C. and Thyagarajan, T., "Identification of Inverse Response Process with Time Delay using Relay Feedback Test", International Journal of Computer Applications in Technology, ISSN(Online): 1741-5047, ISSN (Print): 0952-8091, SNIP:0.232 SJR:0.038, published by Inder Science Publisher, UK. (2012).
40. Kamala, N., Thyagarajan, T. and Renganathan, S., " Fuzzy Gain scheduled multivariable control using PSO – PID", Journal of Advances in Information Technology, published by Academy publisher . (2012).
41. Sutha, S. S. Lavanya and Thyagarajan, T, "Multi-Objective Reconfigurable Output Feedback Controller for MIMO System Using MOEAs", Chem. Eng. Comm., ISSN: 0098-6445, Vol. 199, pp. 1125-1143 (2012).
42. V R Ravi, T. Thyagarajan, "Adaptive Decentralized PI Controller for Two Conical Tank Interacting Level System", Arabian Journal for Science and Engineering, published by Springer. Vol. 39, Issue 12, pp. 8433-8451 (2014).

43. Kalpana D, Thyagarajan T, Gokulraj N, "Modeling and control of non-square MIMO system using relay feedback", ISA Transactions, published by Elsevier. Vol. 59, Issue 1, pp. 408-417 (2015).
44. Kalpana D, Thyagarajan T, Thenral R, "Improved Identification and Control of 2-by-2 MIMO system using Relay Feedback", Control Engineering and Applied Informatics, published by Roman Publisher. Vol. 17, Issue 4, pp. 23-32 (2015).
45. A.Manonmani, T.Thyagarajan, S.Sutha, G.Guruprasath, International Journal of Control Theory and Applications, published by International Science Press. Vol. 8, Issue 5, pp. 1719-1733 (2015).

Papers Presented in Programmes

Research Papers Presented in International Programmes : 30
Research Papers Presented in National Programmes : 4

1. Priyadharsini, M., Thyagarajan, T. and Kalpana, D. and Esakkiappan, C, "Identification of 3-By-3 MIMO System using Relay Feedback" presented in a International level conference on Advanced Communication Control and Computing Technologies (ICACCCT-2014), organised by Syed Ammal Engineering college, Ramanathapuram, India .
2. "Modeling of 2x2 MIMO System using Relay Feedback" presented in a International level conference on 8th International conference on "Trends in Industrial Measurements and Automation (ISA-TIMA-2013), organised by Anna University, India .
3. Narmadha, T. V. and Thyagarajan, T. , "Performance of Matrix converter fed Permanent Magnet Brushless DC Motor" presented in a International level conference on TIMA 2009..
4. Narmadha, T. V. and Thyagarajan, T. , "Performance of VSI fed Permanent Magnet Brushless DC motor drive" presented in a International level conference on Proceedings of the "International Conference on Electrical Energy Systems & Power Electronics in Emerging Economies (ICEESPEEE-09).
5. Esakkiappan, C., Thyagarajan, T. and Blessy Hepsiba, P. , "Design of reconfigurable controller against actuator Failure for a Three-tank using Eigenstructure Assignment Technique" presented in a International level conference on Proc. of the TIMA conference, Chennai, 2009.
6. Sutha, S. and Thyagarajan, T. , "Eigenstructure assignment based multi- objective dynamic state feedback controller for MIMO system using NSGA-II" presented in a International level conference on Proc. International Conference on Modelling, Identification and Control, Okayama, Japan, 2010. .
7. Thyagarajan T, Esakkiappan C, and Sujatha V , "Modeling and Control of Inverse Response Process with Time Delay using Relay Feedback Test" presented in a International level conference on proc. of International Conference on Modeling, Identification and Control (ICMIC 2010),, organised by Okayama University, Japan .

8. Esakkiappan C, Thyagarajan T and Srinivasulu Raju S , "Modeling and Control of First Order Lag plus Integral plus Time delay Process using Relay Feedback Test" presented in a International level conference on proc. of International conference on System Modeling, Optimization and Advanced Process Automation (SYMOPA 2010), organised by CDAC, Thiruvanthapuram.
9. Ravi, V,R and Thyagarajan, T , "Fuzzy logic controller for interacting non linear system" presented in a International level conference on Proc. of International conference on System Dynamics and Control Engineering, Manipal, August 2010.
10. Ravi, V,R and Thyagarajan, T , "Investigation on Controller Design for Interacting Non Linear Systems" presented in a International level conference on Proc. of First International conference on Modeling, Control, Automation and Communication (ISBN : 978-93-80697-35-2), Chennai, December 2010, pp.77-82.
11. Ravi, V,R and Thyagarajan, T , "A Decentralised PID Controller for Interacting Non Linear Systems" presented in a International level conference on IEEE Proc. of 2011 International Conference on Emerging Trends in Electrical and Computer Technology (IEEE catalog No : CFP1155K-CDR, ISBN: 978-1-4244-7925-2), Nagercoil, March 2011, pp. 297-302.
12. Ravi, V,R and Thyagarajan, T , "Application of Adaptive Control Technique to Interacting Non Linear Systems" presented in a International level conference on IEEE proc. of 2011 3rd International Conference on Electronics Computer Technology (IEEE catalog No : CFP1195F-PRT, ISBN: 978-1-4244-8677-9, Kanyakumari, April 2011, pp.V2-386 - 392.
13. Sabitha Ramakrishnan, Thyagarajan, T. and Dhilip Seshadri, "Design and Analysis of PADSR Protocol for Routing in Ad hoc Networks" presented in a International level conference on Proceedings of IEEE International Conference INDICON 2005, IIT-M, pp. 193-197, December 2005..
14. Sabitha Ramakrishnan and Thyagarajan, T. , "Performance of PADSR Protocol in MANETs with respect to Network Scaling" presented in a International level conference on Proc. Of IEEE/HCL sponsored International Conference, HiPAAC 2007 pp. 106-111, July 2007, organised by SSN College of Engineering, Chennai.
15. Sabitha Ramakrishnan, Thyagarajan, T. , "A Mac-Level Performance Enhancement Technique for Wireless Ad Hoc / Sensor Networks" presented in a International level conference on Proceedings of International Conference on Trends in Industrial Measurements and Automation (TIMA), pp. 264-268, January 2009., organised by MIT Campus, Anna University Chennai.
16. Ranjith Kumar, G., Sabitha Ramakrishnan, and Thyagarajan, T. , "On Line Estimation of Rotor Resistance in a Vector Controlled Induction Motor to Retain Robustness" presented in a National level conference on Communication, Computation, Control and Automation, organised by Sri Ramakrishna Institute of Technology , Coimbatore, April 2008..
17. Shimila, R., Geetha Ramadas, Thyagarajan, T. and Vedam Subrahmanyam, "Torque Ripple minimization in Doubly Fed Induction Machine Using Neural Networks" presented in a National level conference on Innovative Vogue in Electronics and Communication Engineering, organised by Madha Engineering College, Chennai, March 2009..

18. "Identification of energy-efficient routing protocol for ad hoc / sensor networks" presented in a National level conference on AICTE/IEEE sponsored national conference on VLSI, Communication and Networks, VCaN 2008, organised by Easwari Engineering College, Chennai, September 2008..
19. Narmadha, T. V. and Thyagarajan, T. , "Robust speed sensor less control of Induction Motor Drives" presented in a International level conference on 7th International conference on Power Electronics, organised by Korean Institute of Power Electronics, South Korea from 01-Oct-2007 to 01-Oct-2007.
20. Suja Mani Malar R. and Thyagarajan, T. , "ANN based Modeling and control of Non linear non-minimum phase system" presented in a International level conference on Proceedings of the 2nd International Conference on "Intelligent Systems and Control, organised by Department of Electrical and Electronics Engineering, Karpagam College of Engineering, Coimbatore from 01-Feb-2008 to 02-Feb-2008.
21. Suja Mani Malar R. and Thyagarajan T. , "Neural Predictive control of Non linear process" presented in a National level conference on Proceedings of the National Conference on Emerging Technologies in electrical systems, organised by Department of Electrical and Electronics Engineering , N.I. College of Engineering, Kumaracoil from 08-Mar-2008.
22. Kamala, N., Thyagarajan, T. and Renganathan, S. , "Continuous Stirred Tank Reactor control using GA based Gain scheduled PID controller" presented in a International level conference on Trends in Industrial Measurements and Automation, TIMA-2009 from 04-Jan-2009 to 06-Jan-2009.
23. Ashwin Kumar Sahoo and Thyagarajan, T. , "Design of intelligent controllers for CSTR" presented in a International level conference on Proceedings of the International Conference on TIMA-2009, organised by Department of Instrumentation Engineering , M.I.T, Chennai from 05-Jan-2009 to 06-Jan-2009.
24. Ashwin Kumar Sahoo and Thyagarajan, T. , "Modeling of FACTS and Custom Power Devices in Distribution Network to Improve Power Quality" presented in a International level conference on IEEE sponsored Third International Conference on Power Systems (IEEE ICPS-2009), organised by Department of Electrical Engineering, IIT –Kharagpur, India from 27-Dec-2009 to 29-Dec-2009.
25. Narmadha, T. V. and Thyagarajan, T. , "Comparison of Performance Analysis of Three Phase Inverter fed PMBLDC Drive Based on Space Vector Modulation" presented in a International level conference on Power, Control and Embedded Systems from 01-Jan-2010 to 01-Jan-2010.
26. Geetha Ramadas, Thyagarajan, T., Sridhara Rao, G. and Durgadevi, S. , "Induction Motor Design Optimization Using Genetic Algorithm" presented in a International level conference on Convergence of Science and Engineering in Education and Research A Global Perspective, organised by Dayanand Sagar College of Engineering, Bangalore from 01-Apr-2010 to 01-Apr-2010.
27. Kamala, N., Thyagarajan, T. and Renganathan, S. , "Multivariable control of Continuous Stirred Tank Reactor" presented in a International level conference on Future Engineering Trends, organised by Saveetha University from 29-Apr-2010 to 30-Apr-2010.

28. Kamala, N., Thyagarajan, T. and Renganathan, S. , "Design of Fuzzy Gains Scheduled controller using GA tuned PID for Continuous Stirred Tank Reactor" presented in a International level conference on System Dynamics and Control , organised by Manipal Institute of Technology from 19-Aug-2010 to 22-Aug-2010.
29. Kamala, N., Thyagarajan, T. and Renganathan, S. , "Fuzzy Gain Scheduling of Decentralized Control of Continuous Stirred Tank Reactor" presented in a International level conference on System Dynamics and Control , organised by Manipal Institute of Technology from 19-Aug-2010 to 22-Aug-2010.
30. Geetha Ramadas, Thyagarajan, T. and Sridhara Rao, G. , "Optimized Induction Motor Design using Genetic Algorithm" presented in a International level conference on Power, Control and Embedded Systems (ICPCES2010), organised by Department of Electrical and Electronics Engineering, College of Engineering, Guindy from 01-Dec-2010 to 01-Dec-2010.
31. Kamala, N., Thyagarajan, T. and Renganathan, S. , "Fuzzy Gain scheduled Decentralized control of CSTR using PSO based PID" presented in a International level conference on Trends in Industrial Measurements and Automation, organised by TIMA-2011 from 06-Jan-2011 to 08-Jan-2011.
32. Kamala, N., Thyagarajan, T. and Renganathan, S. , "Design of Gain scheduled multivariable controllers for a nonlinear Process (Published by IEEE press)" presented in a International level conference on Control, Robotics and Cybernetics, organised by ICCRC 2011, New Delhi from 21-Mar-2011 to 23-Mar-2011.
33. Kamala, N., Thyagarajan, T. and Renganathan, S. , "Fuzzy Gain Scheduled Multivariable control of nonlinear system using PSO based PID" presented in a International level conference on Control, Robotics and Cybernetics, organised by ICCRC 2011, New Delhi from 21-Mar-2011 to 23-Mar-2011.
34. Esakkiappan, C., Thyagarajan, T. and Blessy Hepsiba, P. , "Identification of Over damped Second Order Plus Dead Time Process Using relay Feedback Test" presented in a International level conference on Advances in Engineering Science and Management (ICAESM 2010), organised by E. G. S. Pillay Engineering College, Nagapattinam, Tamil Nadu, Sponsors: IEEE from 30-Mar-2012 to 31-Mar-2012.

Books Published

1. "Engineering Basics (Electrical, Electronics and Computer Engineering)" - third edition authored by T. Thyagarajan et al. and published by New Age International (P) Limited.(1997)
2. "Fundamentals of Electrical, Electronics, Computer & Communication Engineering" - 5th edition authored by T. Thyagarajan and published by Scitech Publishers.(2009)

Current Sponsored Projects

1. "National Hub for Healthcare Instrumentation Development" (March-2011 - March-2017). Project Cost: 120.40.
2. "Design and development of Automated External Defibrillation (AED)".. Project Cost: 31.00.

Sponsored Projects Completed

1. "Fuzzylogic based split range pH control" (January-1998 - January-1999). Project Cost: 2.00.
2. "Investigation on Development of cost effective fiberglass distribution support structure" (January-2002 - January-2003). Project Cost: 9.00.
3. "Development of Advanced Process Control Library (algorithms)" (January-2009 - January-2011). Project Cost: 25.67.

Programme Organized

1. Convenor, National level seminar on "NAAC Awareness Seminar/Training on Quality System in Higher Education" from 29-Sep-2016 to 30-Sep-2016.

Special Repräsentations

1. Chairman in IEEE Madras Section 2010 & 2011 from 01-Jan-2010 to 01-Jan-2011.

Honours

1. "Dept. of Technical Education Award for guiding best project work" given by Tamil Nadu State Govt. (1992).
2. "Sisir Kumar Mitra memorial award for the second best research paper published " (1998).
3. "Award of patron associate " given by Velammal engg. College (1999).
4. "certificate of appreciation for active participation in organizing R-10 student congress at SSN " given by IEEE (2008).
5. "certificate of appreciation award for outstanding mentoring from WIE & GOLD" given by IEEE (2009).
6. "certificate of appreciation award for outstanding mentoring from GOLD " given by IEEE (2009).
7. "Certificate of appreciation-2012 for the services rendered as Chairman of Madras Section" given by IEEE –MGA (2012).

Experience Abroad

1. Visited IEEE, Indonesia . Purpose of visit :IEEE - Region 10 Congress.
2. Visited Okayama University and University of Nagoya, Japan . Purpose of visit :Paper presentation in International conference and invited Talk.
3. Visited ETA, Dubai from 16-Dec-1995 to 23-Dec-1995. Purpose of visit :Industry Institute Interaction.

4. Visited IEEE International Conference, Seoul, Korea from 23-Aug-1999 to 26-Aug-1999. Purpose of visit :Paper Presentation.
5. Visited NTU, NTUST, Taipei, Taiwan from 04-May-2001 to 31-May-2002. Purpose of visit :Post doctoral research.
6. Visited University of Pritoria, Pritoria, South Africa from 14-Dec-2001 to 16-Dec-2001. Purpose of visit :Paper presentation.
7. Visited International Conference, Marbella, Spain from 03-Sep-2003 to 05-Sep-2003. Purpose of visit :Paper Presentation.
8. Visited ETA, Dubai from 10-Oct-2003 to 19-Oct-2003. Purpose of visit :Industry Institute Interaction.
9. Kulalampur, Malaysia from 01-Dec-2003 to 07-Dec-2003. Purpose of visit :Incredible India Exhibition.
10. Visited University of Arkansas, Arkansas, USA from 05-Nov-2007 to 09-Nov-2007. Purpose of visit :Training on MEMS/Nano sensors and aetuatorn.
11. Visited IEEE, Sanfrancisco, USA from 01-Aug-2011. Purpose of visit :IEEE Section congress.
12. Visited Govt. of Dubai, Dubai from 16-Apr-2013 to 20-Apr-2013. Purpose of visit :Gulf Education and Training Exhibition.