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## Present Position

Associate professor, Department of Instrumentation Engineering, Madras Institute of Technology, Anna University, Chennai from August-2014.

## Previous Positions

- Associate professor, Department of Instrumentation Engineering, Madras Institute of Technology, Anna University, Chennai from August-2014.
- Assistant Professor, Department of Instrumentation Engineering, Madras Institute of Technology, Anna University, Chennai during January-2006 and August-2014.
- Lecturer, Department of Instrumentation Engineering, Madras Institute of Technology, Anna University, Chennai during November-2003 and December-2005.

## Degree

- ❖ M.E. in Instrumentation Engineering, Madras Institute of Technology , Anna University.
- ❖ B.E. in ELECTRICAL AND ELECTRONICS ENGINEERING , , Madras University.

## Research Degree

- ❖ Ph.D. in Modeling and Control from Faculty of Electrical Engineering, Madras Institute of Technology, Anna University.  
Title: Modeling and Control of Chylla-Haase polymerization reactor.

## Area of Specialisation

- Modeling and Control of process

## Membership in Professional Organization

- ISA member

## Research Guidance

Number of Ph.D Scholars Guiding : 3  
Number of M.E./ M.Tech. Projects : 20  
Guided  
Number of M.E./ M.Tech. Projects : 1  
Guiding

## Papers Published in Journals

Research Papers Published in International Journals : 5  
Research Papers Published in National Journals : 0

1. D.Manamalli, D.Vasanthi, Dr.P.Kanagasabapathy, " Intelligent optimal control of fluidized catalytic cracking unit using artificial neural network", Association for the advancement of modeling & simulation techniques in enterprises, (2005).
2. D.Vasanthi, B.Pranavamoorthy,N.Pappa, "Design of a self tuning regulator for temperature control of a polymerization reactor", ISA Transactions, published by Elsevier. Vol. 51, Issue 1, pp. 1 - 20 (2012).
3. D.Vasanthi, N.Pappa, " Neural network based multi stage modeling of Chylla Haase polymerization reactor", Chemical Product and Process Modeling, published by Berkeley Electronic Press. Vol. 17, Issue 1, (2012).
4. Arun Joseph, Vasanthi Damodaran, "Dynamic simulation of the reverse osmosis process for seawater using LabVIEW and an analysis of the process performance", Computers and Chemical Engineering, published by Elsevier. Vol. 121, Issue 2, pp. 294-305 (2018).
5. Arun Joseph, Vasanthi Damodaran, "Event-driven enabled regression aided multi-loop control for SEC minimisation in SWRO desalination considering salinity variation", ISA Transactions, published by Elsevier. (2021).

## Papers Presented in Programmes

Research Papers Presented in International Programmes : 7  
Research Papers Presented in National Programmes : 2

1. "Modeling and constant voltage output generation of a microbial fuel cell" presented in a National level conference on National conference on Recent Trends in Instrumentation and Control -2018, organised by Madras Institute of technology, Anna University, India .
2. D.Vasanthi, B.Pranavamoorthy and N. Pappa, "Artificial neural network tuned cascade control for temperature control of polymerization reactor" presented in a International level conference on International Conference on Multi system conference , USA from 28-Sep-2011 to 30-Sep-2011.

3. D.Vasanthi, B.Pranavamoorthy,Dr.N.Pappa, "Online estimation and adaptive temperature control of polymerization reactor" presented in a International level conference on International symposium on DYCOPS , IFAC, organised by IIT , India from 18-Sep-2013 to 19-Sep-2013.
4. P.Pradeebha, N.Pappa, D.Vasanthi, "Modeling and Control of Coal mill" presented in a International level conference on International symposium on DYCOPS , IFAC, organised by IIT Bombay, India from 18-Dec-2013 to 19-Dec-2013.
5. "GA based PID control of Magnetic Levitation System" presented in a National level conference on National conference on Industrial Technology, organised by Bannari Amman Institute of Technology , India from 26-Feb-2014 to 27-Feb-2014.
6. Nancy GRace X, Vasanthi Damodaran, Amal Raj, "Design and Implementation of Low Cost Multichannel Data Acquisition Hardware for Computer Aided Measurement" presented in a International level conference on International conference on Trends in Measurement and Automation, organised by Madras Institute of technology, Anna University, India from 06-Jan-2017 to 08-Jan-2019.
7. Arun Joseph, Vasanthi Damodaran, "Low Cost Embedded Design for Wireless Remote Monitoring of Measurement Data in LabVIEW" presented in a International level conference on IEEE International Conference on Circuits and Systems in Digital Enterprises Technology , organised by SAINTGITS College of Engineering, Kottayam, Kerala, India from 21-Aug-2018 to 22-Dec-2018.
8. "Performance Analysis of PID Control Loops in Desalination Process using LabVIEW" presented in a International level conference on IEEE International Conference on Innovations in Power and Advanced Computing Technologies, organised by School Electrical Engineering, Vellore Institute of Technology, India from 21-Dec-2018 to 22-Dec-2018.
9. "Performance Analysis of Two chamber Microbial fuel cell to control the output voltage" presented in a International level conference on International conference on Innovative Trends in Civil Engineering for sustainable Development , organised by NIT, Warangal, India from 13-Sep-2019 to 15-Sep-2019.

## Programme Organized

1. Co-ordinator, National level Short Course on "Process Control" from 04-Dec-2006 to 16-Dec-2006.
2. Co-ordinator, National level conference on "Recent Trends in Instrumentation and Control" from 18-Mar-2016 to 19-Mar-2016.
3. Co-ordinator, National level workshop on "PLC and HMI Programming" from 06-May-2019 to 08-May-2019.

## Programme Attended

1. Attended a National level Short Course on "Virtual Instrumentation" organized by MIT, India from 24-Nov-2003 to 29-Nov-2003.

2. Attended a National level Short Course on "Re-Engineering Teaching Skills" organized by CFD, Anna University, India from 06-Apr-2004 to 07-Apr-2004.
3. Attended a National level Short Course on "Principles of Environmental Science and Engineering" organized by MIT, India from 06-Dec-2004 to 10-Dec-2004.
4. Attended a National level Short Course on "Trends in Intelligent Measurement and Control" organized by MIT, India from 22-Dec-2004 to 27-Dec-2004.
5. Attended a National level seminar on "Recent Trends in Process Automation" organized by MIT, India from 08-Feb-2005.
6. Participated in a National level workshop on "Physical Design & Verification Issues in ASIC" organized by MIT, India from 08-Sep-2005 to 09-Sep-2005.
7. Attended a National level Short Course on "Transducer Engineering" organized by MIT, India from 05-Dec-2005 to 10-Dec-2005.
8. Attended a National level Short Course on "Control Engineering" organized by MIT, India from 19-Jun-2006 to 24-Jun-2006.
9. Participated in a National level workshop on "Virtual Instrumentation" organized by MIT, India from 02-Mar-2007 to 03-Mar-2007.
10. Attended a National level Short Course on "Labview Basics I" organized by National Instruments, Bangalore, India from 01-Oct-2007 to 03-Oct-2007.
11. Participated in a National level workshop on "Multivariable Control System" organized by NIT Trichy, India from 29-Feb-2008.
12. Attended a National level Short Course on "Process Identification and Control" organized by MIT, India from 16-Jun-2008 to 28-Jun-2008.
13. Attended a National level Short Course on "Process Control" organized by MIT, India from 01-Dec-2008 to 07-Dec-2008.
14. Participated in a International level conference on "Advanced Process Control, Pre-conference tutorial" organized by Madras Institute of Technology, Anna University, India from 01-Jan-2009.
15. Participated in a International level conference on "TIMA 2009" organized by MIT, India from 04-Jan-2009 to 06-Jan-2009.
16. Attended a National level Short Course on "Adaptive Control" organized by MIT, India from 03-May-2010 to 09-May-2010.
17. Participated in a National level workshop on "Open Modelica" organized by Madras Institute of Technology, Anna University, India from 28-Apr-2011.
18. Participated in a National level workshop on "NPTEL - system Identification" organized by IIT Madras, India from 10-Aug-2011 to 13-Aug-2011.

19. Attended a National level Short Course on "Digital Signal Processing" organized by MIT, India from 28-Nov-2011 to 04-Dec-2011.
20. Participated in a National level workshop on "Awareness Program, Internal Quality Assurance" organized by Anna University, India from 14-Mar-2013.
21. Attended a National level Short Course on "Instrumentation in Petrochemical industry" organized by MIT, India from 03-Jun-2013 to 09-Jun-2013.
22. Attended a National level Short Course on "Digital Control System" organized by MIT, India from 02-Dec-2013 to 08-Dec-2013.
23. Participated in a International level conference on "10th International Symposium on Dynamics and Control of Process Systems" organized by IFAAC, IIT Bombay, India from 18-Dec-2013 to 20-Dec-2013.
24. Participated in a International level conference on "TIMA 2013" organized by Madras Institute of Technology, India from 22-Dec-2013 to 24-Dec-2013.
25. Participated in a International level conference on "Trends in Instrumentation and Control" organized by Madras Institute of Technology, India from 06-Jan-2017 to 08-Jan-2017.
26. Participated in a International level workshop on "Trends in Process Control" organized by CIPR, Anna University, India from 02-Feb-2018.
27. Participated in a National level workshop on "Intellectual Property Rights" organized by CIPR, Anna University, India from 02-Feb-2018.
28. Participated in a National level conference on "Recent Trends in Instrumentation and Control" organized by Madras Institute of Technology, Anna University, India from 02-Mar-2018 to 03-Mar-2018.
29. Attended a National level Short Course on "Induction Program for students" organized by Anna University, India from 18-Jun-2018 to 29-Jun-2018.
30. Attended a International level Short Course on "Chemical Reaction Engineering II" organized by Anna University, India from 27-May-2019 to 31-May-2019.
31. Attended a National level seminar on "Deep Learning for modelling and control of Bioprocess" organized by Easwari Engineering College, India from 22-Jun-2020.

### Invited Lectures

1. Delivered a Lecture on "Multivariable Process Control" in Guest Lecture organized by Velammal Engineering College, Chennai.
2. Delivered a Lecture on "Fuzzy logic control for home heating system" in Applied soft computing, FDTP organized by MIT, Chennai (14-Jun-2016).
3. Delivered a Lecture on "Resistance Measurement" in Guest Lecture organized by Jerusalem Engineering College, Chennai (22-Aug-2016).