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## Present Position

Assistant Professor, Department of Instrumentation Engineering, Madras Institute of Technology, Anna University, Chennai from December -2017.

## Previous Positions

- Lecturer, Department of Electronics and Instrumentation Engineering, FEAT, Annamalai University, Chidambaram during 10.07.2003 to 30.06.2008.
- Assistant Professor, Department of Electronics and Instrumentation Engineering, FEAT, Annamalai University, Chidambaram during 01.07.2008 to 11.12.2017.

## Degree

- ❖ M.E. in Process Control and Instrumentation Engineering, FEAT, Annamalai University, Annamalai Nagar, Chidambaram (2002).
- ❖ B.E. in Electronics and Instrumentation Engineering, FEAT, Annamalai University, Annamalai Nagar, Chidambaram (2008).

## Research Degree

- ❖ Ph.D. in Instrumentation Engineering, Annamalai University, Annamalai Nagar, Chidambaram (2016).  
Title: “Performance Analysis of Various Controller Strategies for Non-linear Processes”

## Area of Specializations

- Process Control
- Microprocessor and Microcontroller

## Research Guidance

Number of Ph.D Scholars Guiding	:	1
Number of M.E./M.Tech. Projects Guided	:	8
Number of M.E./M.Tech. Projects Guiding	:	1

## Papers Published in Journals

Research Papers Published in International Journals	7
Research Papers Published in National Journals	0

1. Ganesh Ram A and S Abraham Lincoln, "Fuzzy Adaptive PI Controller For Single Input Single Output Non-Linear System," *ARPN Journal of Engineering and Applied Science.*, vol. 7, no. 10, pp. 1273–1280, 2012.
2. Ganesh Ram A and S Abraham Lincoln, "A Model Reference based Fuzzy Adaptive PI Controller for Non-Linear Level Process System," *International Journal of Research and Reviews in Applied Science*, vol.14, no.2, pp.477–486, 2013.
3. Ganesh Ram A and S Abraham Lincoln., "Real Time Implementation of Fuzzy Based Adaptive PI Controller for a Spherical Tank System," *International Journal of Simulation, Systems, Science & Technology*, vol. 14, no. 6, pp. 1–8, 2013.
4. Ganesh Ram A and S Abraham Lincoln., "Design and Implementation of MGA-FAPI Controller for Pressure Process System," *International Journal of Applied Engineering Research*, vol.10, no. 10, pp. 9850–9857, 2015.
5. Balashanmugam S, S Srinivasan, A Ganesh Ram, et.al "Level Control of a Non- Linear Spherical Tank System using GA based Controller," *International Journal for Research in Applied Science & Engineering Technology*, Vol 6, issues III pp.2196-2202, 2018.
6. Ganesh Ram A, and S. Meyyappan, "Bifurcation and Chaos in Current Programmed Positive Output Luo\_Converter," *European Journal of Molecular & Clinical Medicine*, ISSN 2515-8260 Volume 07, Issue 02 pp.5153-5164,2020.
7. Vinoth. N, M Vijayakarhick, A Ganesh Ram, et.al, "Thresholding of Skin Melanoma Images based on Kapur's Entropy with Harmony Search Algorithm," *European Journal of Molecular & Clinical Medicine* ISSN 2515-8260 Volume 7, Issue 11, pp-716-726, 2020.

## Papers Presented in Programmes

Research Papers Presented in International Programmes	4
Research Papers Presented in National Programme	0

1. "Design and Implementation of MGA-FAPI Controller for Pressure Process System, in an International level conference on " *International Conference on Innovative Strategies in Renewable Energies and Its Applications ISREA' 15*, 5th and 6th March, 2015.
2. In an International level conference presented on "Design and Implementation of Multi-Model Reference Based Self-tuning Fuzzy Adaptive PI Controller for a Spherical Tank System," *International Conference on Intelligent Computing and Sustainable System (ICICSS 2018)*, 20-22 September, 2018.
3. "Bifurcation and Chaos in Current Programmed Positive Output Luo\_Converter, in an International level conference on " *2<sup>nd</sup> International Conference on recent Trends in Engineering and Scientific Technology (ICTEST-2020)*, 21<sup>st</sup> March, 2020.

4. "Automatic Number Plate Recognition of Helmet-less Motorcyclists using Computer Vision, *"International Conference on future prospects of biotechnology and biomedical applications"*, 18 December 2020, Sri Shakthi Institute of Engineering and Technology, Coimbatore.

## Books Chapter Published

1. Ganesh Ram A and S. Meyyappan, "Real-Time Implementation of Multi-model Reference-Based Fuzzy Adaptive PI Controller for a Liquid-Level Process" Springer Nature Singapore Pvt. Ltd. 2021, *Proceedings of International Conference on Intelligent Computing, Information and Control Systems*, Advances in Intelligent Systems and Computing, Volume 1272, ISSN 2194-5357, pp-925-935, 2021.
2. Vijayakarthish M, A. Ganeshram, and S. Sathishbabu, "Fuzzy Adaptive Intelligent Controller for AC Servo Motor", Springer Nature Switzerland AG 2021, *Deep Learning and Edge Computing Solutions for High Performance Computing*, EAI/Springer Innovations in Communication and Computing, ISSN 2522-8595, pp-111-120, 2021.
3. A.Ganesh Ram, S. Prabha, and M. Vijayakarthish, Prediction and Analysis of SARS-CoV-2 (COVID-19) Epidemic in India using LSTM Network, Computational Modelling and Imaging for SARS-CoV-2 and COVID-19, Taylor & Francis, CRC Press, Chapter 8, pp.125- 142, 2021.
4. N. Vinoth, A. Ganesh Ram, M. Vijayakarthish, and S. Meyyappan, "Automatic Mask Detection and Social Distance Alerting Based on a Deep-Learning Computer Vision Algorithm, Computational Modelling and Imaging for SARS-CoV-2 and COVID-19, Taylor & Francis, CRC Press, Chapter 5, pp.5- 21, 2021.

## Programme Organized

1. Two day workshop on PLC and HMI Programming, Organized by Department of Instrumentation Engineering, Madras Institute of Technology Campus, Anna University

## Programme Attended

1. Participated in a workshop on "Electronics Circuit Design and Simulation" Organized by the Department of Electrical Engineering, FEAT, Annamalai University, Annamalai Nagar, AMDL, Bangalore and ViMicrosystems, Chennai on 10<sup>th</sup> April 2004.
2. Participated in the "Refresher Course on VLSI Design" conducted by the Department of Electronics Engineering, Madras Institute of Technology, Anna University, Chennai on 28<sup>th</sup> & 29<sup>th</sup> March 2005.
3. Attended the Short Term Programme on "Microprocessor and Embedded Microcontroller Systems" Organized by Department of Electronics and Communication Engineering, Asansol Engineering College, Asansol, during 23 – 28 June 2008.

4. Participated in the AICTE Sponsored Staff Development Programme on “Recent Trends in Energy Engineering and Management” conducted by the Department of Electrical and Electronics Engineering, PSNA College of Engineering & Technology, Dindigul, during 25<sup>th</sup> May – 5<sup>th</sup> June 2009.
5. Participated in a Short Term Programme on “SOFT COMPUTING TECHNIQUES AND THEIR APPLICATIONS” conducted by the ELTX. & Communication Engineering, NITTTR, Chandigarh from 23.11.2009 to 27.11.2009.
6. Participated in a Short Term Programme on “VIRTUAL INSTRUMENTATION” conducted by Electrical Engineering Department, NITTTR, Chandigarh from 30.11.2009 to 04.11.2009.
7. Attended the “University Sponsored Prof.K.S.Sonachalam Memorial XX Inter-Disciplinary Research Methodology Workshop” organized by the Department of Economics, Annamalai University, Annamalai Nagar, during 27<sup>th</sup> February – 2<sup>nd</sup> March 2010.
8. Participated in a workshop on “Mission10X” organized by WIPRO and conducted at Bharathiyar College of Engineering & Technology at Karaikal from 8<sup>th</sup> November - 12<sup>th</sup> November 2010.
9. Participated in a Short Term Programme on “MATLAB” conducted by Electrical Engineering Department, NITTTR, Chandigarh from 22.11.2010 to 26.11.2010.
10. Participated in the AICTE Sponsored Staff Development Programme on “Computational Biology” conducted by the Department of Electronics and Instrumentation Engineering, Annamalai University, during 21<sup>st</sup> November – 3<sup>rd</sup> December 2011.
11. Attended the workshop on “Positive Attitudes and Constructive Thinking (PACT)” organized by Annamalai University and Conducted by Haselfre Solutions Pvt. Ltd., on 20<sup>th</sup> to 22<sup>nd</sup> August 2012.
12. Attended the Short Term Training Program on “Industrial Pollution – Advanced Technologies in Control and Safety (IPATICS-2013)” organized by the Department of Chemical Engineering, Annamalai University, Annamalai Nagar, sponsored by the Council of Scientific and Industrial Research during 10-14 June 2013.
13. Participated in AICTE Recognized Short Term Course “HANDS ON EXPERIENCE ON LABVIEW” conducted by Electrical Engineering Department, NITTTR, Chandigarh from 25.11.2013 to 29.11.2013.
14. Participated in the UGC sponsored National Seminar on “Emerging Trends in Process Automation” organized by the Department of Instrumentation Engineering and Department of Chemical Engineering, FEAT, Annamalai University, Annamalai Nagar on 26<sup>th</sup> & 27<sup>th</sup> March 2014.
15. Participated in an International workshop on “Emerging Trends in Energy Systems Management” Jointly organized by FEAT, Annamalai University and Center for Energy Systems Research, Tennessee Technological University during 14-16 March 2014.
16. Short term course on “MATLAB and its Hardware Interface” organized by Department of Electrical Engineering, NITTTR Chandigarh from November 28 to December 2, 2016.

17. Participated in a National level conference on “Recent Trends in Instrumentation and Control (RTIC-2018)” organized by the Department of Instrumentation Engineering, Madras Institute of Technology, Anna University, Chennai on 2<sup>nd</sup>& 3<sup>rd</sup> March 2018.
18. Attended the AICTE approved two-week Faculty Development Training Program on “Induction Program for Students” organized by Anna University from 18<sup>th</sup> to 29<sup>th</sup> of June 2018.
19. Participated in a webinar on “EMPLOYABILITY SKILLS IN CURRICULUM DESIGN” organized by PES University, Bangalore on April 26, 2020.
20. Participated in the Online Faculty Development Program on "Role of IoT, Embedded, Electric Vehicle & Power Electronic Converters for Smart World" organized by St. Joseph's College of Engineering in association with IEEE Student Branch Chapter from 18/05/2020 to 22/05/2020.

## Patent

1. Ipep-Surveillance System: Intelligent Video Surveillance System Ensuring Privacy of People, Publication of the Patent Office, The Patent Office Journal No. 31/2020 Dated 31/07/2020.
2. Filed patent rights for Machine learning based Smart Helmet for Underground Workers. File number: 202141012134 Dated 22/03/2021.

## Invited Lectures

1. Delivered a Lecture on “Fuzzy Logic Control” in ISTE approved Short Term Training Programme on “Hands on Experience in MATLAB” organized by the Department of Electronics and Instrumentation Engineering, Annamalai University (04-12-2014).
2. Delivered a Lecture on “Fuzzy Logic Toolbox” in ISTE approved STTP on “MATLAB APPLICATIONS IN SCIENCE AND ENGINEERING” (MASE’15) jointly organized by the Department of Electronics and Instrumentation Engineering and Department of Chemical Engineering, Annamalai University (12-06-2015).
3. Delivered a Lecture on “Adaptive Control Techniques” for Electronics and Instrumentation Engineering Department students of Jerusalem College of Engineering, Chennai (20-02-2019).
4. Delivered a Lecture on “Fuzzy Logic and its Applications” in Tamil Nadu State Government Sponsored Five days online Faculty Development Programme on “Artificial Intelligence – Applications” in association with Government College of Engineering, Thanjavur (15-02-2021).