

Dr. S. Sujatha  
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## Sujatha. S

### • Profile Summary

- An eminence professional with 20 years of experience in Teaching, Research, Guiding and Mentoring.
- Understanding of the basic principles of the subject and its relevancy to other domains. In-depth knowledge of various techniques and approaches applied at a research project.
- An acute planner with track record of implementing system and controls, motivational activities and education values during career span.
- Proficiency in handling the administrative activities entailing management like training, seminars and upholding of the institutions vision.
- Experience and skills in developing curriculum as Chairman of Board of Studies of EIE Department, to accommodate different learning styles and maximizing student's comprehension.
- Also member in EEE, Bio-Medical and Chemical BoS.
- Conducted various workshops, seminars and organised various conferences and symposiums.
- Anna University recognized supervisor -Ref. No. 24.03.15 (2430247).
- Journal Reviewer of ISA Transactions, Elsevier.
- Monitoring committee member for ACE-NIDHI-PRAYAS-Center

### • Education

Anna University, Chennai  
November, 2012

**PhD (Faculty of Electrical Engineering)**

Annamalai University, Chidambaram, Tamil Nadu  
2001 – 2002

**Master of Engineering (Process Control and Instrumentation)**

Alagappa Chettiar Government College of Engineering and Technology, Karaikudi, Tamil Nadu.  
1993 – 1997

**Bachelor of Engineering (Electrical and Electronics Engineering)**

### • Professional Experience

- Worked as Graduate Trainee in T.N.E.B from 19.09.1997 to 18.09.1998
- Worked as an Assistant Professor in Adhiyamaan college of Engineering from 02.01.2003 to 30.06.2007.
- Promoted as Associate Professor and Head from 01.07.2007-30.11.2012
- Promoted as Professor and Head from 1.12.2012 to till date.

### • Subject Taught

Control Systems, Process Control, Computer Networks and control of Process, Digital Control System, Nonlinear control system, Adaptive control, Applied Soft Computing Techniques, Digital Logic Circuits, Electron Devices, Linear Integrated Circuit, Power Plant Instrumentation, Transducer Engineering, Robotics and Automation, Industrial Instrumentation.

### • **Additional responsibilities:**

- Program Coordinator in NBA, NAAC Team.
- Board of studies Chairman in Electronics and Instrumentation Engineering
- Board of Studies Member in Electrical, Bio-Medical Engineering and Chemical Department, Adhiyamaan College of Engineering.
- Board of studies Member in Mahendra College of Engineering, Namakkal.
- Member in Disciplinary Committee, Adhiyamaan College of Engineering.
- Member in Academic Council, Adhiyamaan College of Engineering.
- Member in Grievance Appeal Committee, Adhiyamaan College of Engineering.
- Coordinator - NIRF (National Institute Ranking Framework)
- Question paper setter and valuator for Anna University & Other university and Autonomous institution

### • **Publication**

#### **INTERNATIONAL JOURNALS**

- SUJATHA, S. PAPPAN, N. "Realization of Non Linear Controllers in Batch Reactor using GA and SVM", International Journal of Chemical Reactor Engineering, Vol. 9, No.A67, pp.1-20, 2011.
- SUJATHA, S. PAPPAN, N. "Performance of Gain Scheduled Generic Model Controller Based on BF-PSO for A Batch reactor", Asian Journal of Scientific Research, Vol.5, No.2, pp.31-44, 2012.
- SUJATHA, S. PAPPAN, N. "GMC design based on SVM model of the batch reactor", International Journal of Computer Application, Vol.1, No.20, pp 76-79, 2010.
- SUJATHA, S. PAPPAN, N. "IMC design based on SVM model of the Batch Reactor" International Journal of Engineering Systems Modelling and Simulation Vol. 3, Nos. 3/4, 2011.
- SUJATHA SUBRAMANIAN, FATHIMA GHOUSE, PAPPAN NATARAJAN " Fault Diagnosis of Batch Reactor using Machine Learning Methods", in Modelling and Simulation in Engineering, Vol. 2014 Article ID 426402, 14 pages, 2014.
- SUJATHA S, DEEPA R, KRISHNAMMAL VP," Design and Implementation of FFT Processor Using Vedic Multiplier" International Journal of Applied Engineering Research, Volume 10, Number 18, 2015.
- SUJATHA S, CHUVEETHA, JANSI, LATHA, "Soft Computing Techniques Based Classification of Leukemia By Using Microscopic Blood Smear Images", International Journal of Applied Engineering Research, Volume 10, Number 18, 2015.
- S.SUJATHA, M.MOHAMED IRFAN, B.RHAAGUL ,"GSM Based Home Security System Using PLC", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 5, Special Issue 1, March 2016, ISSN : 2278-8875.
- S.SUJATHA, S.SANTHOSHKUMAR, A.MUKILA, R.SRI MANOJ KUMAR,"Study of Biological Hazards of Poultry Waste Gases", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 5, Special Issue 1, March 2016, ISSN : 2278-8875.

- S.SUJATHA, M.SAKTHI, N.SHRIJITH, J.STALIN,"Design of Intelligent Traffic Control System", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 5, Special Issue 1, March 2016, ISSN: 2278-8875.
- S.SUJATHA, K.M.OM PRAKASH, M.RAJESH KUMAR," Home Automation Using PLC", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 5, Special Issue 1, March 2016, ISSN: 2278-8875.
- S.SUJATHA, N.RAJA VIGNESH, S.VINDHU,"Parameterization of Train Protection and Warning System Based on ERTMS Level-1 Principles", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 5, Special Issue 1, March 2016, ISSN: 2278-8875.
- S.SUJATHA, V.P.KRISHNAMMAL,"Performance analysis of Anurupye Vedic Multiplier in FFT Processor", Australian Journal of Basic and Applied sciences", ISSN: 1991-8178, 10(1) January 2016, Pages: 579-585.
- P.HOSANNA PRINCYE, S.SUJATHA, V.VIJAYAKUMARI, 'Detection of Exudates of Retinal Images using Neural Network clustering method", Middle-East Journal of Scientific Research 24(10):3374-3379, 2016, ISSN: 1990-9233.
- S. SUJATHA, N. SARAVANAN, R. SONA," Disease Identification in Mango Leaf Using Image Processing ",ADVANCES in NATURAL and APPLIED SCIENCES, ISSN: 1995-0772 EISSN: 1998-1090, 2017 Special 11(6): pages 1-7.
- S. SUJATHA, L. KARTHIKEYAN, A. DEVAKUMAR, S. JAYAPRAKASH," IOT Based Design and Implementation of Affordable Home Appliance Control", ADVANCES in NATURAL and APPLIED SCIENCES, ISSN: 1995-0772 EISSN: 1998-1090, 2017 Special 11(6): pages 8-15.
- S. SUJATHA, S. SRINIVASAN, S. TAMIL SELVAN, S. VENKATESH," SCADA Based Health Monitoring of Electrical Drives", ADVANCES in NATURAL and APPLIED SCIENCES, ISSN: 1995-0772 EISSN: 1998-1090, 2017 Special 11(6): pages16-25.
- SUJATHA.S, JUHI.V, SANGAVI.P," Real Time Implementation of A Tele-Monitoring System For COPD Related Events "International Journal of Pure and Applied Mathematics, volume 119,No.2, pages 14525-14528, EISSN:1314-3395,2018.
- SUJATHA .S, JAYA PRABHA.K, NATHIYA.R," IOT Based Theft Control in A Residential Region" International Journal of Pure and Applied Mathematics, volume 119,No.2, pages 14537-14539, EISSN:1314-3395,2018.
- S. SUJATHA and S. H. PRASANTH, "Cloth Consultant Robot With Temperature & Weather Report Using Uipath – Rpa," IEEE Conference-2021 Third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV), pp. 1268-1272, doi: 10.1109/ICICV50876.2021.9388480,2021

#### **INTERNATIONAL CONFERENCES**

- SUJATHA, S, HOSANNA PRINCYE. P," Artifact amputation by adaptive comb filter", International conference on EAST 2005 at NICE during 16th to 17th December 2005.

- SUJATHA, S. PAPPAN, N. "Modeling Of A MIMO Process Using Support Vector Machine" Proceeding of the International Conference on Trends in Industrial Measurement and Automation MIT, Chennai, pp.247-252,2009.
- SUJATHA, S. PAPPAN, N. "GMC design based on SVM model of the batch reactor" in International Conference on Futuristic Computer Applications, IISc, Bangalore, 2010.
- SUJATHA, S. PAPPAN, N. "IMC design based on SVM model of the Batch Reactor" in International conference on recent advancements in Electrical Sciences , KSR Engg College, 2010.
- SUJATHA, S. PAPPAN, N. "An Application of SVM for Process Modeling and Optimization of Batch Reactor with GA" MIPSCON-2011, GMRIT, Rajam, Andhra Pradesh, 2011.
- SUJATHA, S. PAPPAN, N. "GA Based Optimal Control of A Batch Reactor with SVM Tuned GMC" IEEE International Conference on Control Applications (CCA) Denver, CO, USA, 2011.
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#### • Patent

Filed a patent for the product titled on "A smart Hybrid cooking system-(Patent Application No. 201641037185)" along with Allinov Research and Development Private Ltd.

#### • Funded Program/Project

- Organized Anna University Funded FDP on "Analog and Digital Communication" 12<sup>th</sup> to 18<sup>th</sup> June 2014.
- As a Co-Principal Investigator completed UGC sponsored project on the title of "Design and Implementation of Low Power Arithmetic Architecture".

#### • Project submitted for Funding

- Submitted a proposal to SERB on the topic of," MAPPING THE EMF RADIATION LEVELS -A CASE STUDY FOR HOSUR BLOCK IN KRISHNAGIRI DISTRICT, TAMILNADU, (2013)- Presentation Done .
- Submitted a proposal to TECHNOLOGY INTERVENTIONS FOR DISABLED AND ELDERLY (TIDE), UNDER SEED DIVISION OF DST on the topic of," DEVELOPMENT OF AN INTELLIGENT AUTOMATED NON-INVASIVE PROGNOSIS AND MONITORING SYSTEM FOR DIABETIC NEUROPATHY". (2017) - Presentation Done
- Submitted a proposal to SCIENCE FOR EQUITY, EMPOWERMENT & DEVELOPMENT DIVISION (TITE) under DST on the topic of "DEVELOPMENT OF RENEWABLE ENERGY BASED RURAL (TRIBAL) ELECTRIFICATION THROUGH SOLAR TREE" (2019).- Presentation Done
- Submitted a proposal to IMPRESS under INDIAN COUNCIL OF SOCIAL SCIENCE RESEARCH, on the topic of, "AN INVESTIGATION ON INTERNET GAME ADDICTION SYNDROME AMONG STUDENTS IN CITY OF INDIA" (2019)

#### • Interaction with other Institute

- Acted as a keynote speaker in an International Conference conducted by Dayananda Sagar College of Engineering, 2009.
- Acted as a resource person in AICTE sponsored workshop on Sairam college of Engineering, Anekkal.

- Acted as a session judge for a national conference, symposium conducted by Sairam college of Engineering, Anekkal.
- Member in Board of studies in Mahendra College of Engineering, Mallasamudram, Namakkal.
- Acted as Member in KCT Industry Academia Meet 2016-Instrumentation in Kumaraguru College of Tech, Coimbatore.

#### • **Participation in FDP, Seminar, conference, Workshop...**

- Workshop on “ Academic Leadership” during 27th -30th April 2015, organized by Adhiyamaan College of Engineering, Hosur, sponsored by WIPRO.
- Workshop on “ R & D Project proposals- Awareness, Needs and Benefits” on 26th Feb 2014, organized by Centre for Technology Development and Transfer, Anna University, Chennai.
- National workshop on Electronic System Level Design and Verification held at Amrita University Bangaluru on 14th to 15th November 2014.
- Mission 10X workshop sponsored by WIPRO during 21st to 25th June 2011.
- FDP on Adaptive Control at MIT, Anna University from 3rd to 9th May 2010.
- National Level Seminar on Recent Applications in communication, networking and power systems supported by IEEE Madras Section on 29th April 2010.
- Pre-conference tutorial on Advanced Process control at MIT on 4th January 2009.
- Short term course on Excel for Numerical Techniques at ACE during 20th to 21st January 2009.
- National Seminar jointly organized by ACE and Center for Intellectual Property Rights on the topic of Intellectual Property Rights on 31st March 2009.
- CDAC and MIT sponsored National Seminar on Automation systems technology during 18th December 2009.
- AICTE sponsored SDP at ACE on Recent application of SCADA in power systems using soft computing techniques during 21st July to 1st August 2008.
- TEQIP sponsored workshop on Multivariable control system at NIT, Trichy on 29th February 2008.
- AICTE sponsored staff development programme on Challenges in Advanced VLSI Design Techniques during January 2-14, 2008
- AICTE sponsored staff development program on Learning systems in Intelligent control: An appraisal of fuzzy, neural and genetic algorithms from 12th to 24th March 2007.
- AICTE & DRDO sponsored workshop on Role of Embedded system in Industries during 12th to 14th September 2007.
- Presented a paper on the topic of A Sensorless position control system with EKF for PMSM in the National Conference on 1st February 2006
- CSIR sponsored Seminar on Neuro-Fuzzy Modeling to Process control applications from 17th to 18th November 2006 at Kongu Engg College, Perundurai.
- FDP on Process control at MIT, Anna University, from 4th to 16th December 2006.
- Presented a paper on the topic of Evolution of wireless sensor network in the National Conference on Emerging Trends in communication Networks and Internet applications during 6th -7th January 2005
- Presented a paper on the topic of finger print image compression using wavelet packets and vector quantization in the National Conference on Emerging Trends in communication Networks and Internet applications during 6th -7th January 2005
- Presented a paper titled on Complex wavelet transform based power quantity measurement in the National conference on Power Electronics and Drives PEDC2005 on 31st March, 2005.
- STTP on Recent trends in Process control and Instrumentation at SRM University during 22nd to 24th November 2005.
- FDP on Digital Signal Processing at BIT, from 15th to 20th November 2004.

#### • **Organized List of Workshops, Seminars, Conferences, and Symposiums...**

- A two days National Level Conference NCETEIE2k19 during 12th and 13th March 2019.
- One day Project Expo 2k19 on 27<sup>th</sup> February 2019.

- One day Workshop on, "FUTURE TRENDS IN PROCESS AUTOMATION", on 13<sup>th</sup> Feb 2019.
- Hands on Training on LABVIEW during 13.12.2018 to 22.12.2018
- One day Seminar on CAREER OPPORTUNITIES AND TECHNICAL SKILL DEVELOPMENT on 28.11.2018.
- One day Seminar on RECENT TRENDS IN INDUSTRIAL AUTOMATION on 26.11.2018
- One day Seminar on REAL TIME IMPLEMENTATION OF SCADA on 20.9.2018
- One day Seminar on INDUSTRIAL STANDARDS 4.0 ON 12.9.2018
- One day Seminar on FIELD INSTRUMENTS on 28.8.2018
- A two days National Level Technical Symposium ZITATO 2k18 during 16<sup>th</sup> and 17<sup>th</sup> March 2018.
- One day Project Expo 2k18 on 1<sup>st</sup> March 2018.
- One day workshop on PCB Design and Challenges in IoT Development on 21<sup>st</sup> February 2018.
- Five days hands on workshop on Industrial automation using PLC and SCADA (Siemens LOGO PLC, SIMATIC WIN CC SCADA, during 18<sup>th</sup> December to 22<sup>nd</sup> December 2017.
- A two days National Level Technical Symposium STYFO2K16 during 7<sup>th</sup> to 8<sup>th</sup> September 2016.
- A two days National Conference On "Recent Trends in Electronics and Instrumentation Engineering -NCRTE2K16" 1<sup>st</sup> & 2<sup>nd</sup> March 2016.
- A two days National level Student Project Expo 2016 during 26<sup>th</sup> to 27<sup>th</sup> February 2016.
- All India Seminar on "Embedded Systems with Real Time Application" IE(I) HLC in association with EIE Department during 9<sup>th</sup> to 10<sup>th</sup> February 2016.
- A two days National Conference on Innovation in Electronics, Instrumentation, biomedical and computing technologies during 23<sup>rd</sup> to 24<sup>th</sup> March, 2015.
- A two days National level workshop on Industrial Instrumentation Design using PRODOK during 26<sup>th</sup> to 27<sup>th</sup> February, 2015.
- A two days National level Student Project Expo SPXEI'15 during 24<sup>th</sup> to 25<sup>th</sup> February 2015.
- A two day National level workshop on Embedded system design with Hands-on training during 16<sup>th</sup> to 17<sup>th</sup> December 2014.
- A National level Technical Symposium MEZZO T14 during 26<sup>th</sup> to 27<sup>th</sup> August 2014.
- Guest Lecture on the topic of Automation on 1<sup>st</sup> March 2014.
- A National Conference on NCETEI '14 during 14<sup>th</sup> March, 2014.
- A two National level workshop on Introduction to Labview during 05.03.14 & 06.03.14
- A National Level Workshop on Circuit Design and Fabrication during 17<sup>th</sup> to 20<sup>th</sup> February 2014.
- A two day workshop on Industrial Automation using PLC during 27<sup>th</sup> to 30<sup>th</sup> January 2014.
- A two day Workshop on SCADA & Field Instrumentation during 17<sup>th</sup> to 20<sup>th</sup> February 2014.
- Faculty development programme on "Latex" during Jun 2013.
- A National level Technical Symposium WRISON T13 29<sup>th</sup> to 30<sup>th</sup> August 2013.
- Guest Lecture on Industrial Automation 3<sup>rd</sup> March 2013.
- A National level Technical Symposium KRATOS T12, 30<sup>th</sup> to 31<sup>st</sup> August 2012.
- One day workshop on CONTROL VALVES on 11.09.12
- A National level Technical Symposium ZARIO T11 29<sup>th</sup> to 30<sup>th</sup> August 2011.

#### • **Membership in Professional Bodies**

- Life member of ISTE-LM 43567
- Life Member of Instrument Society Of India (ISOI)- LM.No.2266
- Life member of Institution of Engineers (India)-F-119868-4

## • Personal Profile

Date Of Birth	05/06/1975
Husband Name	Dr.T.Sakthivel
Hobbies	Reading Books and Watching TV
Attitude	Positive thinking, Self-motivated, self-learning.
Nationality	Indian
Marital Status	Married
Languages Known	Tamil, English