


Sri Sai Ram Engineering College

Department of Electronics and Instrumentation Engineering

Name: B.PUVIYARASI	
Designation:	Assistant Professor-III
Qualification:	Ph.D
Area of Specialization:	Control and Instrumentation
Experience:	Teaching- 11 Years 6 Months (till date)
Number of Workshops/ FDP Attended:	Worshops-9 FDP-07
Publication:	Journal: SCI: 2 SCOPUS:9 Other International Journal: 4
	Conference: National: -5 International: 13
Research Guidance:	Guided 13 UG projects till date
General:	Smart India Hackathon Coordinator, Edumate Coordinator
Staff Achievement	Have won Cash awards for producing 100% results 5 times

Experience:

S.No	Name of the Institution	Designation	Department	Period of Experience
1	Sri Sairam Engineering College	Assistant Professor	Electronics and Instrumentation Engineering	June 2012-till date

Theory Subjects Handled:

- Industrial Communication Networks
- Digital Signal Processing
- Robotics and Automation
- Industrial Data Networks
- Computer Networks
- Analytical Instrumentation
- Computer Control of Processes
- Digital Logic Circuits
- Control Systems
- Digital Image Processing
- Applied Soft Computing
- Process Control
- Logic And Distributed Control System
- Computer Vision

INTERNATIONAL JOURNAL

1. **B. Puviyarasi, C. Murukesh, M. Alagiri (2022)**, “Design and implementation of gain scheduling decentralized PI/PID controller for the fluid catalytic cracking unit”, **Biomedical Signal Processing and Control**, Elsevier, DOI Link: <https://doi.org/10.1016/j.bspc.2022.103780>, ISSN: 1746-8094, Vol. 77, **Impact Factor: 5.1** (Annexure I and SCI Indexed)
2. **B. Puviyarasi, C. Murukesh (2023)**, “Design and implementation of Adaptive Mixed Fuzzy Controller for MIMO nonlinear systems”, **Mathematics and Computers in Simulation**, Elsevier, DOI Link: <https://doi.org/10.1016/j.matcom.2022.06.019>, ISSN: 0378-4754, vol. 203, **Impact Factor: 4.6** (Annexure I and SCI Indexed)
3. **B. Puviyarasi, D. Raaghavi, A. Dharshini, R. Vinesha Ravi, D. Deepika (2020)** “ Optical character recognition system for visual impaired people and audio conversion using dataset” **Test Engineering and Management**, ISSN NO: 0193-4120, vol. 83, Pages: 13859-13862, **Impact Factor: 0.399**

4. **B Puviyarasi**, N Nithyarani, T Tamilselvi, K Srividya (2019), “Adaptive pid control of an autonomous sailboat”, International Journal of Engineering and Advanced Technology, DOI Link: 10.35940/ijeat.F9358.088619, vol. 8 (6), **Impact Factor: 3.43**
5. **B.Puviyarasi**, A.Anuswetha, R.Vinobha, M.Nithya (2017), “Clean Energy Fabricator using Thermionic Energy Converter”, International Journal of Advanced in Management, Technology and Engineering Sciences, vol. 7 (12), ISSN NO:2249- 7455.
6. G.Jayasudha, Nandhini.J.Rao, C.Komathi, **B.Puviyarasi** (2015), “Modelling and Analysis of RO Process Plant with and without decoupling using PID Controller”, International Journal of Emerging Technology in Computer Science and Electronics, vol. 13 (1), pp. 22-28, March 2015

INTERNATIONAL CONFERENCE

1. **Puviyarasi, B.**, Murukesh, C., (2022), “Design and Implementation of PID Controller and Fuzzy Logic Controller for Liquid Level System”, 8th International Conference on Advanced Computing and Communication Systems, IEEE Xplore, ICACCS 2022, pp. 1463–1466 **(Scopus Indexed)**
2. Nagaraj, S., Srividya, K., **Puviyarasi, B.**, Santhosh, K., Sabareeswaran, N., “Smart Elevator Cabin Sanitization and Disinfection for COVID, 2022 International Conference on Communication, Computing and Internet of Things”, IC3IoT 2022 – Proceedings, IEEE Xplore, **(Scopus Indexed)**
3. **Puviyarasi, B.**, Srividya, K., Madhuprabha, S., Renuka Devi, E. Sindhusa, K. “Inline Electrolytic Disinfected Water Supply System Using Programmable Logic Controller”, Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT 2021, 2021, pp. 423–427, IEEE Xplore, **(Scopus Indexed)**
4. Srividya, K., Nagaraj, S., **Puviyarasi, B.**, Vani, S. “Infection prevention and control using UV-disinfectant bot for COVID”, 2021 2nd International Conference for Emerging Technology, INCET 2021, 2021, 9456444, IEEE Xplore, **(Scopus Indexed)**
5. Srividya, K., Nagaraj, S., **Puviyarasi, B.**, Rufus, A.R.S., Sreeja, G., “Deep learning Based Bird Deterrent System for Agriculture”, Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT 2021, 2021, pp. 555–559, IEEE Xplore, **(Scopus Indexed)**

6. **B.Puviarasi**, S.Sowmiya, L.Nanthinisri.L, S.V.Aishwaryashree, “Control and Implementation of an Autonomous Sail Boat”, 2nd International Conference on Power Electronics and Renewable Energy System held at Rajalakshmi Engineering College, Chennai, April 2018
7. **B.Puviarasi**, S.Sowmiya, L.Nanthinisri, S.V.Aishwaryashree, “Adaptive Fuzzy Logic Control of an Autonomous Sail Boat”, 4th International Conference on Science Engineering and Technology held at Jeppiaar Engineering College, Chennai, March 2018
8. **B.Puviarasi**, C.Anand, V.Arunkumar, R.Mani Raj, “Control and Implementation of liquid level system using LabVIEW”, 4th International Conference on Science Engineering and Technology held at Jeppiaar Engineering College, Chennai, March 2018
9. **B.Puviarasi**, S.Sowmiya, L.Nanthinisri.L, S.V.Aishwaryashree, “Adaptive PID Control of an Autonomous Sail Boat”, 7th International Conference on Informatics and Computing in Engineering Systems held at S.A EngineeringCollege, Chennai, March 2018
10. **B.Puviarasi**, “Modelling and Control of Magnetic Levitation System”, International Conference on Recent Trends in Electrical, Electronics and Communication Engineering held at PSR Engineering College, Sivakasi, March 2017
11. **B.Puviarasi**, **S.Priyanka**, **N.Priyadharshini**, **B.Kiruthika**, **S.Subiksha**, “Modelling and Analysis of RO Process Plant with and without decoupling using PID Controller”, International Conference on Recent Research in Engineering 2015 held at SKR Engineering College, Chennai, March 2015
12. **B.Puviarasi**, V.R. Ravi, “Gain Scheduling Adaptive Fuzzy Logic Controller for Two conical Tank Interacting Level System”, International Conference on Science ,Engineering and technology (SET-2012) at VIT University, Vellore, May 2012
13. Ravi, V.R., Thyagarajan, T., **Puviarasi**, **B.**, “Centralised neuro controller for two conical tank interacting level system”, Proceedings of 2012 IEEE International Conference on Advanced Communication Control and Computing Technologies, ICACCCT 2012, 2012, pp. 343–347, 6320799, IEEE Xplore, (**Scopus Indexed**)

NATIONAL CONFERENCE

1. **B.Puviyarasi**, “Line Air quality index using G-MAPS”, National Conference on Smart Computing and Advanced Communication(scac’19) held at PSNA College of Engineering, Chennai, Tamilnadu, March 2019
2. **B.Puviyarasi**, M.kadhambari, P.Radhika, A.Ragavi, E.Shreelekha “Toll Management with Mobile Computing”, National Conference on Recent Innovations In Advanced Material ScienceRIAMS’19 held at Rajalakshmi Engineering College, Chennai, Tamilnadu, March 2019
3. **B.Puviyarasi**, N.Nithyarani “Advanced Controller Designing for Temperature Process in LabVIEW”, National Level Program on contemporary approaches of Industrial IoT in Real time Environment held at KCG College of Technology , Chennai, Tamilnadu, December 2017
4. **B.Puviyarasi**, N.Nithyarani “Adaptive PID Controller for Magnetic Levitation System”, National Level Program on contemporary approaches of Industrial IoT in Real time Environment held at KCG College of Technology , Chennai, Tamilnadu, December 2017
5. **B.Puviyarasi**, “Design and Implementation of Rotary Inverted Pendulum using PID Controller”, Second National Conference on Intelligent Control and System Dynamics (NCICSD) held at Sri Sairam Engineering College, Chennai, March 2014

INTERACTION WITH EXTERNAL WORLD:

- Acted as Resource person at “AICTE Sponsored STTP on Energy Harvesting” organized By Panimalar Institute of Technology on 18.3.2021.
- Acted as Resource person at “workshop on dynamic response of non linear system using fuzzy logic controller” held at Sri Sairam Engineering College on 19.9.2021.

ORGANIZED FDP/ CONFERENCE

- Organized five days Faculty Development Programme on “Bio-Inspired Learning” Coordinator for FDP Anna University for the period of 20.12.2021 -24.12.2021.
- Organized 4th National level technical ROBOFEST Coordinator for “CREOISTA 4.0” on 15th November 2022.

CREDENTIALS

- Life Member of ISTE (LM 131510), Current Annual Member of IEEE (98115258), Annual Member of IEEE Control System Society, IEEE Robotics and Automation Society and IEEE Industrial Electronics Society
- Reviewer of SCI indexed journals like Neural Computing and Applications, ISATransactions and biomedical signal processing and control.
- Co-Convener for International Conference for Computing, Communication and Control
- Department Level Coordinator for NAAC , NBA and ISO
- Acted as Department Coordinator for workshops and guest lectures.
- Acted as Coordinator for Anna University Sponsored Faculty Development Programme.

ONLINE COURSES COMPLETED

NPTEL

- Automatic Control
- Effective Engineering Teaching in Practice
- Modelling and Simulation of Dynamic Systems

NITTTR

Module 1: Orientation towards technical education and curriculum aspects

Module 3: Communication skills modes sound knowledge dissemination

Module 5: Technology enabled learning and lifelong self learning

Module 6: Student assessment and evaluation

Module 8: Institutional management and administrative procedures

Coursera

- AI For Everyone
- Deep Learning with Tensor Flow
- Healthy Practices: Nutrition, Physical Activity, and Community and Family Participation
- Materials Science: 10 Things Every Engineer Should Know
- Introduction to Data Science in Python

WORKSHOPS/SEMINARS ATTENDED:

- Attended six days short term training programme sponsored by AICTE and organised by Anna University on “Data Science Apply to Measurement and Control” MIT Campus, Anna University during 31.1.2022 to 5.2.2022.
- Attended five days AICTE Training and Learning on “Data Science” organized by Aligarh Muslim University during 21.10.2020 to 25.10.2020.
- Attended three days National Level Workshop on “Machine Learning and AI in automation” organized by St. Joseph College of Engineering during 21.8.2019 to 23.8.2019.
- Attended two days National Level Workshop on “Internet of things (IoT) for Industrial Applications” organized by Velammal Engineering college, Chennai, Tamil Nadu during 19.1.2018 to 20.1.2018.
- Attended one day Workshop on “National Level Program on contemporary approaches of Industrial IoT in Real time Environment” organized by KCG College of Technology , Chennai, Tamilnadu during 4.12. 2017.
- Attended three days Workshop on “Emerging Trends and Future Perspective in Image Processing and Computer Vision” conducted by Trend Instrumentation and Automation Private Limited” at Sri Sairam Engg College, Chennai, Tamil Nadu during 4.1.2017- 6.1.2017
- Attended a Workshop on “Instrumentation Detail Engineering Workshop” conducted by Trend Instrumentation and Automation Private Limited” at Sri Sairam Engg College, Chennai, Tamil Nadu during 30.6.2016.
- Attended five days Workshop on “DCS and PLC Overview” conducted by Yokogawa India Limited at Sri Sairam Engineering College, Chennai, Tamil Nadu during 21.7.2014 - 25.7.2014.
- Attended three days National Workshop on “Intelligent modeling and control using MATLAB and LABVIEW”, organized by Easwari Engineering college, Ramapuram, Chennai, Tamil Nadu during 25.9.2011-27.9.2011

FDPs/SDPs Attended:

- Attended Faculty Development programme on “Electrical Circuits Devices and Control Systems” organised by SRM Valliammai Engineering College during 12.6.2023- 16.6.2023.

- Attended Faculty Development programme on “Inculcating Universal Human Values in Technical Education” organised by All India Council for Technical Education(AICTE) during 26.7.2021- 30.7.2021.
- Faculty Development programme on “Get Ready for AI with MATLAB and SIMULINK” organised by Sri Sairam Engineering College, Chennai, Tamilnadu during 18.6.2020- 20.6.2020.
- Attended Faculty Development on programme “Recent Innovations in Electrical, Electronics, Instrumentation, Automation & Teaching Pedagogy” organised by Sri Sairam Engineering College, Chennai, Tamilnadu during 18.5.2020 to 30.5.2020.
- Attended Faculty Development programme on “Entrepreneurship Career Development Program” organised by Sri Sairam Institute of Management Studies, Chennai during 8.4.2019 to 12.4.2019.
- Attended Faculty Development programme on “Teaching Excellence in Engineering and Management Curriculum” organised by Sri Sairam Institute of Management Studies, Chennai, 20.6.2016.
- Attended National Level Faculty Development programme on “World class Higher Learning Institutions and faculties”(Engineering, Technology and Management), organized by Sri Sairam Engineering College, Chennai, 12.12.2012.