



Dr. Suhailam P

Assistant Professor

Department of Artificial Intelligence and Data Science
dr.suhailamp@gmail.com

Educational Background

- PhD, National Institute of Technology Calicut (2021–2026)
- M.Tech in Process Control, Government Engineering College Thrissur (2011–2013)
- B.Tech in Applied Electronics & Instrumentation, MES College of Engineering (2007–2011)

Professional Experience

- Academic Adviser, DeZONE India (Jan 2017 – Dec 2019)
- Lecturer, Government Engineering College Kozhikode (Jul 2014 – Dec 2015)
- Lecturer, MES College of Engineering (Jan 2013 – Dec 2013)
- Lecturer, Government Engineering College Thrissur (May 2012 – Nov 2012)

Area of Interest

- Artificial Intelligence & Machine Learning
- Digital Twin
- IIoT
- Process Control

Area of Expertise

- Machine Learning

- Deep Learning
- Natural Language Processing
- Microprocessors and Microcontrollers
- Process Modelling
- Control Systems

Skills

- MATLAB
- Aspen Plus
- LabVIEW
- Embedded C

Awards and Recognitions

- GATE AIR 624 (Score 470)
- Best Outgoing Student MES College of engineering Kuttippuram (2011)
- Best Paper Award (2024, ICFTES)

Patents

- AI-Driven Portable Device for Real-Time Prediction of Pulverized Coal Temperature. Patent No. 576811, Application No. 202541058911 (Granted).
- DT-IIoT Connected Edge Computing Hardware. Application No. 202541074824.
- Intelligent IIoT System for Continuous Stirred-Tank Reactors and Related Methods. Application No. 202641042913.
- AI Chatbot Assisted Digital Twin Enabled Device for Real-Time Monitoring and Forecasting of Biomass Gasifier Operating Parameters. Application No. 202641056947.

Publications

- Machine learning framework for sulphur content prediction in crude oil using physicochemical properties. Canadian Journal of Chemical Engineering (2026).
- Interpretable ML model for predicting Ethane-Ethylene composition. Thermal Science and Engineering Progress (2025).

-
- Interpretable ML model for coal pulverizer temperature prediction. International Journal of Coal Preparation and Utilization (2025).
 - Enhanced cryogenic distillation column identification. Chemical Product and Process Modeling (2025).
 - Identification of Time-Delayed Second-Order Unstable Systems. IEEE ICC (2025).
 - AI-Based Personalized Learning for Chemical Engineering Education. CRC/Taylor & Francis (2025).
 - AI-Driven Digitization of P&IDs. IEEE ICC (2025).
 - Cloud of Things: Architecture and Industrial Applications. CRC Press (2024).
 - Modeling and Advanced Control Strategies for Beer Fermentation. IEEE ICC (2023).
 - Modelling and Simulation of Two-Stage Claus Converter of SRU. IEEE PICC (2025).
 - Methane-rich Synthetic Natural Gas Separation using Cryogenic Distillation. IEEE PICC (2025).
 - Non-Linear Process Identification and Control of a SISO System. IEEE ICDT (2025).
 - Data-driven Transfer Function Modeling of a Coal Mill System. International Journal of Coal Preparation and Utilization (2026).
 - PSO-Based Internal Model Control Approach for Cascade Processes. Advanced Control for Applications (2025).
 - Advanced Temperature Control in Ethanol Fermentation. Preparative Biochemistry & Biotechnology (2025).
 - Direct Synthesis Approach for Centralized PI Controllers. International Journal of Systems Science (2024).
 - Application of AI and IoT in Process Industries. CRC Press (2023).
 - Filtration Process. CRC Press (2023).
 - Modeling and Control of Beer Fermentation. Chemical Engineering & Technology (2023).
 - Blockchain and AI: Enhancing Personalized Learning. CRC Press (2023).

For professional inquiries or collaborations, contact via email: dr.suhailamp@gmail.com