



Ms. Catherine J. Nereveetil

Assistant Professor, Electronics & Communications Engineering

Administrative Responsibilities

- Placement Executive, T&P Cell
- Department Alumni Coordinator
- Arts Fest Coordinator
- Department Mentoring Coordinator
- College Promotion Committee Member
- Institution's Innovation Council Member
- Second Class Advisor of 2024-2028 ECE Batch

Education Summary

- Pursuing Ph.D, Veltech University, Chennai
- M.E in Applied Electronics, Anna University, Chennai)
- B.Tech in Applied Electronics & Instrumentation, Rajagiri School of Engineering & Technology, Kakkanad (M G University)

Employment History

- As Assistant Professor at Christ College of Engineering, Irinjalakuda (August 2017 - Till date)

Journal/Papers Published

- S. K. Saleem, M. John, J. Maritta, and C. J. Nereveetil, "Wireless Resonant Charging for Electric Vehicles — A Dynamic Approach," in Proc. 2024 IEEE Int. Conf. on Smart Power Control and Renewable Energy (ICSPCRE), Jul. 2024, DOI:10.1109/ICSPCRE62303.2024.10675119
- Presented a paper entitled "Dynamic Wireless Charging of Electric Vehicles using Magnetic Resonance" at SUSTAINXT Summit 2024, National Level Technical Symposium
- Catherine. J. Nereveetil, M. Kalamani, and S. Valarmathy, "Feature Selection Algorithm for Automatic Speech Recognition Based on Fuzzy Logic," International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering

(IJAREEIE), vol. 3, no. 1, pp. 6974–6980, Jan. 2014.

- M. Kalamani, S. Valarmathy, and Catherine. J. Nereveettil, “Feature Selection Algorithms for Automatic Speech Recognition,” in Proc. IEEE Int. Conf. on Computer Communication and Informatics (ICCCI), Coimbatore, India, Jan. 2014, doi: 10.1109/ICCCI.2014.6921797.
- Presented a paper entitled “Fuzzy Logic based Feature Selection Algorithm for Automatic Speech Recognition” in NCCSVD 2014 (National Conference on Communication Systems and VLSI Design)
- Presented a paper entitled “Survey on Feature Selection Algorithms for Speech Recognition” in NCCCN 2013 (National Conference on Communication and Computer Networks).
- Presented a paper entitled “Speech Recognition using MFCC and Neural Network” in NCSSS 2014 (National Conference on Signal and Speech Systems).
- Presented a paper entitled “High Sensitivity Scanning Pyroelectric Microscope: Inter-Digitated Comb Electrodes and Advanced Image Processing” in NCVCW 2013 (National Conference on VLSI, Communication and Wireless Systems).

Specialized Trainings

- 6 day FDP on Next Generation Healthcare : Integrated Sensors, AI & IOT
- 2 week NIT Warangal Sponsored Online FDP on “Cyber Security and Data Forensic”
- Attended 5-day FDP on “Introduction to AR&VR from 31st Jan to 03rd Feb 2023
- Undergone and certified Innovation Ambassador (IA) training’ Foundation level”by MoE’s Innovation Cell & AICTE
- Certified 5day FDP on “WEARABLE DEVICES” by AICTE Training and Learning (ATAL Academy) from 17/01/2022 to 21/01/2022
- International Convention cum Pre-Conference workshop on ‘Innovations on Engineering and Technology for Sustainable Development’
- Five-Day International FDP on 'High Performance Computing & Data Science' at RSET, Kakkanad
- Three-Day FDP for student Induction by AICTE at RSET, Kakkanad
- Five-Day FDP on Innovation Management for Growth and Strategic Change at GEC Thrissur
- Three-day FDP on 'Signal Processing & Embedded System Design using EDA tools' at JEC, Cheruthuruthy
- Three-day FDP on 'Fundamentals of Project Guidance: Embedded & Signal Processing', at Sahrdaya College of Engineering & Technology, Kodakara
- 'TECH- SURGE 2018' Industry - Institution Interaction Program by LIVEWIRE Thrissur

Achievements

- Published an Indian Patent titled “ Scalable IOT-Enabled Intelligent Aquarium and Aquaculture Management System”
- Certified MOOC course in Microelectronics and Nanoelectronics through NPTEL/SWAYAM as part of Faculty Development
- Co-investigator of FRSG -funded project titled Design and Implemetation of a System for Neoplastic Proliferation

Areas of Interest

- Biomedical Engineering
- Body Area Networking
- Applied Electronics