Faculty Profile

Dr. Resmi R Nair , M.E., Ph.D
Associate Professor
Date of Joining: 01.06.2024

HIGHLIGHTS:

- Number of Journal Publications: 24
- H-Index:6
- Project Funding Received:NIL
- Patents Published:4
- Patents Granted:1

PROFESSIONAL LINKS:

- Scopus ID: 57206682826
- Scopus Link: Nair, Resmi R. - Author details - Scopus
- Google Scholar ID:
- Anna University Faculty ID: 270831
- AICTE Faculty ID: 1-7492355718
- Anna University Supervisor ID: 4190016
- LinkedIn: RESMI R NAIR | LinkedIn

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 12 Years
- Industrial Experience: NIL

INTERNATIONAL EXPOSURE: NIL

AREA OF SPECIALIZATION:

- VLSI Design
- Digital Image Processing

Ph.Ds AWARDED WITH DETAILS: NIL

Ph.Ds GUIDING:

- **Full Time Scholars: NIL**
- **Part Time Scholars : 4**

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

1. Dr. Resmi R Nair, Dr. Senthamizh Selvi R, "Early Detection of Polycystic Ovarian Disease in Women from Ultrasound Images using Convolutional" ICMR, 2022.
2. Dr. R. Senthamizh Selvi, Dr. Resmi R Nair, "Development and Validation of A High-Speed Imgage Enhancement System for Growth Monitoring of Crops in Rural India Using Diffusion Smoothing Technique, SERB POWER, 2021.
3. Dr. Resmi R Nair, Ms. T. Gophika, Mrs. S. Suruthi, "Restoration and Classification of Tamil, Malayalam and Sanskrit Characters from Ancient Inscriptions and Palm Leaf Manuscripts using Pattern Recognition and CNN Based Classification", SHRI, DST, 2021.
4. Dr. Resmi R Nair, "An Irreducible Complexity Algorithm for Robust Diffusion Smoothing of Images using VLSI", SRG, SERB, 2021.
5. Dr. S. Sudha and Dr. Resmi R Nair, "Prediction and Removal of Noise in Remote Sensing Images using Composite Filter", ISRO RESPOND BASKET 2021.
6. Dr. Resmi R Nair, "Deep Learning based Precision Crop Classification from Satellite Images", SRG, SERB, 2020.
7. Dr. Resmi R Nair, "Detection of Change in Urban Land Area and Classification of Urban Land Cover using High Resolution SAR Images, STRIDE component 2, UGC, 2019.
8. Dr. S. Sudha and Dr. Resmi R Nair, "Contamination Detection and Nano -Bio Remediation of Groundwater , Tirupur district, Tamilnadu", TNSCST, 2020.
9. Dr. S. Sudha and Dr. Resmi R Nair, "Deep Learning Based Sign Board Text Recognition From South Indian Regional Languages To Hindi And Vice Versa For The Development Of Tourism In India", RPS, AICTE, 2020.

PATENTS PUBLISHED/GRANTED:

1. G. Karthika, Dr. R. Renugadevi, Dr. M. Navaneetha Velammal, Dr. Resmi R Nair, Dr. R. Hema, "Real-Time Voice-Activated Humanoid Information Assistant", 202441071360 A, Publication Date : 04/10/2024.
2. Dr. Resmi R Nair , Dr. S. Sudha , Dr. R. Senthamizh Selvi , Ms. R. Hema, Ms. T. Gophika, Ms. S. Suruthi, "Development of device for recognising speech from an audio signal", 202241027259 A, Published, 2022.
3. Dr. S. Sudha, Dr. R. Senthamizh Selvi, Dr. Resmi R Nair, Mrs. Bindu Babu, Mrs. Caroline Jebakumari, "A system based on three dimensional thermal imaging and image processing for analysing dermatological disease and disorder, 202141055032, Published, 2021
4. M., Hemanth DR; N., Malarvizhi DR; Nair, Resmi R DR; Neeba, E. A. DR; S, Sasikala DR; Suresh, A DR , "Automated Enhanced E-Learning System for Engineering Students using IoT", 2020104354, Granted, 2020.

COURSES CERTIFIED:

➢ NPTEL Online Certification – NBA Accreditation and Teaching and Learning in Engineering (NATE) – Elite + Silver – Topper 5%.
➢ NPTEL Online Certification –Hardware Modelling using Verilog– Elite.

ACHIEVEMENTS AND AWARDS:

➢ YOUNG RESEARCHER AWARD 2022 by Institute of Scholars.
➢ SUMAN SHARMA AWARD for securing the second highest marks in aggregate amongst the women candidates across the country in AMIE Section A (non–diploma) examination held by IEI (India) in SUMMER 2005.

SPECIAL SESSIONS DELIVERED: NIL

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- "Research Tools", two weeks international FDP organized by Easwari Engineering College from 03.07.2023 to 14.07.2023.

- "ChatGPT & AI Tools for Educators", 7 Day National Level Online Faculty Development Program organised by Marian College Kuttikkanam (Autonomous) in association with The Kerala State Higher Education Council from 14 June to 21 June 2023.

- "Research Methodology" workshop by Bharath Institute of Higher Education and Research, India & Aurel Vlaicu University of Arad, Romania, 21.2.2022 to 25.02.2022

- "Recent trends in AI, IoT and Block chain" FDP by Easwari Engineering College, 9.2.2022 to 18.2.2022.

- "Advanced Pedagogy using Smart Tools", FDP by KLN College of Engineering, 21.01.2022 to 28.01.2022

- "Machine Learning in Bio-medical Engineering", AICTE-ISTE sponsored induction/refresher programme, 01.12.21 TO 07.12.21

- "Research Challenges in Cognetive Radio Networks", FDP by Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, 20.09.2021-25.09.2021.

- "Trends and Challenges in Machine Learning & Deep Learning", FDP, Easwari Engineering College , 24.05.2021 to 29.05.2021.

- "Blockchain with cyber security", FDP by Easwari Engineering College, 24.05.2021 to 29.05.2021.

- "Trends and Challenges in Power Converters and Control", FDP by Anna University, 04.05.2021 to 18.05.2021

- "Two weeks International Workshop on Data Science", Department of IT, Easwari Engineering College, 19-04-2021 - 29-04-2021.

- "Digital Transformation-An introductory course" FDP by EIE, Kakatiya Institute of Technology and Science in Association with CLOUD CHIP TECNOLOGIES Pvt. Ltd, 10.05.2020 – 14.05.2020.

- 'Transmission Lines and RF Systems – EC8651', Anna University sponsored FDTP, Panimalar Institute of Technology, Chennai, 18.11.2019 – 23.11.2019.

- "Feature Extraction, Pattern Recognition and Classification Techniques for Digital Images using MATLAB®" 20-hour online course by SCS-India conducted during 9th December 2017 -31st January 2018.

- "Digital Image Processing & Pattern Recognition" MATLAB® Workshop by SCS-India at T.Nagar, Chennai held on 29-30, November 2014.
- "Signals and Systems" 2 weeks ISTE sponsored workshop by IIT Kharagpur at Rajalakshmi Engineering College, Chennai, held during 02-12 January 2014.
- "Faculty Development Programme" by TalentSprint at Vel Tech in July 2013.
- "Low Power VLSI Design" one day faculty development programme at Vel Tech High Tech held on October 13, 2012.
- "Digital Image Processing using MATLAB" 2 days workshop at MIT, Chennai
- held on 23-24 June 2012.
- "Implementation of Embedded System Design using LABVIEW", 2 days workshop at at Prathyusha Institute of Technology and Management, Chennai during May 9-10, 2012.
- "Bounded and Unbounded Communication" 2 weeks AICTE sponsored staff development programme at Prathyusha Institute of Technology and Management, Chennai held from 23.11.09 to 06.12.09.
- "Exploring MATLAB and its Tools" 3 days training programme at Prathyusha Institute of Technology and Management in association with Raghuram Associates, Chennai held during September 5-7, 2009.

PROFESSIONAL MEMBERSHIPS:

- Life Member of Institution of Electronics and Telecommunication Engineers (IETE)
- Life Member of Indian Society for Technical Education (ISTE)

OTHER DETAILS (If any):

NIL