

## FACULTY VITAE

Name- Kalpalatha Reddy T

Education-

Ph.D. Information and Communications, Anna University, Chennai,2005–2011.

Master of Technology (Applied Electronics), Anna University, Chennai,2002–2004.

Bachelor of Technology in Electronics Communication and Engineering, Sri Venkateswara University, Tirupati, Andhra Pradesh, 1989– 1992.

Academic Experience-

Dr. M.G.R. Educational and Research Institute, Centre Head and Convener for DU-GKY,2024 - Present

Dr. M.G.R. Educational and Research Institute, Additional Dean-Academics (E&T), Jan 2023- Present

Sri Venkateswara Engineering College, Tirupati, Principal,2018- 2022

SKR Engineering College, Vice Principal & Dean-ECE & Bio Medical-2007–2018

Rajarajeswari Engineering College-Associate Professor, -2005–2007

MGR Engineering College-Senior Lecturer-2004– 2005

Sree Sastha Institute of Engineering and Technology-Lecturer-2001–2002

Holy Mary Institute of Technology & Science -Lecturer, -1998-2001

Yelamanchili Consultancy Services -Software -Engineer-1997-1998

Thai Moogambigai Polytechnic-Lecturer, 1995-1997

Non-Academic Experience-

Nagarjuna InfoTech- Software Consultant-1992-1995

Certifications or Professional Registrations- NIL

Current membership in professional organizations –

Current membership in professional organizations- IWIN, Institution of Electronics and Telecommunication Engineers (IETE), Indian Society for Technical Education (ISTE).

Honors and awards-

Nodal Center Head for ‘Smart India Hackathon, 2019’ & NEET2020,21,22.

Kalam National Fellowship Award 2020.

Service activities-

Briefly list the most important publications and presentations from the past five years –

Dr. T. Kalpalatha Reddy and et.al, (2023),” Impact of selective Median Filter on dental caries classification system using deep learning models”, Journal of Autonomous Intelligence, Vol.I, B-E.

The book chapter titled "Forecasting COVID-19 from Lung X-ray Images" towards “Machine Learning Algorithms for Intelligent Data Analytics” was published on 28th December, 2022.

Megalan Leo L, Dr. T. Kalpalatha Reddy, (2021), “Learning compact and discriminative Hybrid Neural Network for Dental caries classification” Microprocessors and Microsystems, 82, p.103836.

Megalan Leo.L, Dr.T.Kalpalatha reddy, (2020), “Dental Caries Classification System using Deep Learning Based Convolutional Neural Network” Journal of Computational and Theoretical Nanoscience, ISSN: 1546-1955 (Print), 2020.

L. Megalan Leo, Dr. T. Kalpalatha Reddy, (2020),“Layer Wise Segmentation of Dental X-Ray Images”, European Journal of Molecular & Clinical Medicine, 7(3), pp.2460-2467, ISSN:2515-8260.

L. Megalan Leo, Dr. T. Kalpalatha Reddy, (2019), "Removal of various Noises in Dental X-ray Images using Selective Median Filter" International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075.

D. Kalaiyarasi, Dr. T. Kalpalatha Reddy, (2019), "Design and implementation of Least Mean Square adaptive FIR filter using offset binary coding based Distributed Arithmetic", Microprocessor and Microsystems, (ELSEVIER), Vol.71.

D. Kalaiyarasi, Dr. T. Kalpalatha Reddy, (2019), "Design and Implementation of LMS Adaptive Fir Filter Based on OBC Distributed Arithmetic Algorithm with MCSLA" Revised and Submitted to "Journal of Engineering and Applied Sciences 14(20): 7756-7764, ISSN:1816-949X, 2019.

D. Kalaiyarasi, Dr. T. Kalpalatha Reddy, (2019) " An Efficient implementation of Least mean square adaptive fir filter based on distributed arithmetic" Far East Journal of Electronics and Communications, Volume 19, Issue 1, Pages9-32.

B. Buvaneswari, Dr. T. Kalpalatha Reddy, (2019), " ELSA-A Novel Techniques to predict Parkinson's disease in Bio-Facial Recognition System", International Journal of Advanced Trends in Computer Science and Engineering, Vol 8, No.1, B 12-E 17.

Dr. T. Kalpalatha Reddy and et.al, (2019), " High Performance Hybrid Cognitive Framework for Bio-Facial Signal Fusion Processing for the Disease Diagnosis", Journal of the International Measurement Cofederation, Vol 140, B 89-E 99.

Dr. T. Kalpalatha Reddy and et.al, (2019), " Design and Implementation of LMS Adative Fir Filter Based on OBC Distributed Arithmetic Algorithm with MCLA" ARPN Journal of Engineering and Applied Sciences, Vol 14,20, B 7756-E 7764.

Dr. T. Kalpalatha Reddy and et.al, (2019), " UGVs for Agri pray with AI assisted Paddy Crop disease Identification", Procedia Computer Science, Vol 230, B 70-E 81.

Dr. T. Kalpalatha Reddy and et.al, (2019), " ACPT-An Intelligent Methodology for Disease Diagnosis", Journal of Advanced Research in Dynamical and Control Systems, Vol 11,4, B 2187-E 2194.

Dr. T. Kalpalatha Reddy and et.al, (2019), " Design and Simulation of RF Capacitive MEMS Switch for wide Band Applications with Different Dielectric Materials-A Step to Fast Switching Switches, International Journal of Innovative Technology and Exploring Engineering, Vol 8,5, B 822-E 826.

Briefly list the most recent professional development activities –

Navigating the Future, Implementing NEP2020 for Educational Excellence, 2nd, 9th, 16th, 23rd May 2024, IQAC Cluster India & White code.

NEP2020 Orientation & Sensitization Programme, MMTTP, 15.02.2024 to 24.02.2024, Gandhigram Rural Institute-DTBU, Gandhigram.

International Scientific Conference " University Science: A look into the Future" from 08.02.2024 & 09.02.2024, Kursk State Medical University, Russia co-hosted by Dr. M. G. R Educational & Research Institute, Chennai.

Received Funding for MODROBES from ALL INDIA COUNCIL FOR TECHNICAL EDUCATION (AICTE) during 2019-2021 and completed.

Books Published-

Dr. T. Kalpalatha Reddy and et.al, (2023), " Machine Learning Algorithms for Intelligent Data Analytics, [Forecasting COVID-19 from Lung X-ray Images], Pg-59-74, Technoarete Publications.