



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Nizara Educational Campus, Muthapudupet, Avadi IAF, Chennai-600055.

Ph:044-26842627/26842086

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NAME & INITIALS	Dr. K.G. PARTHIBAN	
DESIGNATION	PROFESSOR & PRINCIPAL	
EDUCATIONAL QUALIFICATION	B.E. (ECE)., M.E. (PCI)., Ph.D.,	
EXPERIENCE	25 Years	
DATE OF JOINING	20/08/2025	
E-MAIL ID	principal@aalimec.ac.in	
AREA OF SPECIALISATION	Bio Signal Processing	

EDUCATIONAL QUALIFICATION

DEGREE	BRANCH / SPECIALIZATION	INSTITUTION	UNIVERSITY	YEAR
Ph.D.,	Faculty of EEE (Bio Signal Processing)	Kongu Engineering College, Erode/ Anna University, Chennai	ANNA UNIVERSITY	JAN 2017
M.E.	Process Control & Instrumentation.	Annamalai University, Chidambaram.	Annamalai University, Chidambaram.	APRIL 2005
B.E.	Electronics and Communication Engineering.	V.L.B. Janakiammal College of Engineering and Technology, Coimbatore	Bharathiyar University	MAY 2001
D.E.C.E.	Electronics and Communication Engineering	MPNMJ Polytechnic College, Chennimalai, Erode.	MPNMJ Polytechnic College, Chennimalai, Erode.	MAY 1997

PROFESSIONAL MEMBERSHIPS

ISTE, IETE, ISSE, ISRD, IAENG, GSTE, NFISRT

FDP ATTENDED

Short-Term Courses	06
Workshops / Seminars /FDTP-Attended	61
International & National Journal`s Publications	50
International & National Conferences	70
Guest Lecture Delivered	18
ON-LINE Webinars Delivered	20
ON-Line Webinars Attended	60+
MoU Signed 2001 to 2025	60+
Media (TV &Radio) Programs	25+
Programs Organized –Symposium/IIIC Events/Fresher`s Day /National Level Events/ International Conference/ International FDP`s/ Project Expo/ Career Guidance Program/Campus Interviews/Job Fairs /Extension Activities/Medical Camp & Etc... 250+	

PUBLICATION DETAILS
"CNN -LSTM -Based Nonlinear Model predictive Controller for Temperature Trajectory Tracking in a Batch Reactor -ACS Omega . DOI: Doi.org/10.1021/acsomega.4c07893
"Generative AI in Focus A Comprehensive Review of Leading Models across Modalities" -IEEE Conference Proceedings. DOI:10.1109/ICUIS64676.2024.10867014
"An Efficient Method for Image Forgery Detection based on MEHO-SAE Model"-IEEE Conference. DOI: 10.1109/WCONF61366.2024.10692124
A Spectral Learning Enhancement method in Cooperative multigent system for production control System -IEEE Conference. DOI: 10.1109/IACIS61494.2024.10721945
"Emergency Me ssage and alert system for People with Epilepsy “,-IJMRSET, April 2024. ISSN : 2581-7175 Volume 7 Issue 2, Mar- Apr 2024
"IOT Based Stretcher w April 2024ith Automatic Sanitization -IJIRCCE,. ISSN : 2320-9798 Volume 12 Issue 2,
"Remote IV Bag Monitoring system with Smart Medication Dispensing, IJIRCCE, 2320-9798 Volume 12 Issue 2, April 2024
"Chronological golden search optimization based deep learning for classification of heartbeat using ECG signal" , IEEE Conference. DOI: https://doi.org/10.1080/21681163.2023.2228930
"Diabetic Retinopathy Segmentation and Classification Using U-Net with Convolution Neural Network" (Taylor Series) DOI:http://dx.doi.org/10.1109/ICMNOWC60182.2023.10435756
"Radiation Detection Using Geiger Muller Counter by IOT Powered" By ESP 32. ISSN: 2347-6710 Volume 12, Issue 13, April 2023
"The Virtual Laboratory for School Education System", ISSN: 2347-6710 Volume 12, Issue 13, April 2023
"Non-Linear EEG Signal for Anti Accident vehicle System", ISSN: 2347-6710 Volume 12, Issue 13, April 2023

"Image Argumentation On ECG Image Dataset Using GAN," Journal of Algebraic Statistics -2022. ISSN:1309-3452
"Enzymatic Activity and its Biomedical Importance of Papain: A Review ", YMER Digital Nov 2022. ISSN : 0044-0477
"Machine Learning Methods for Detecting Radiation-Induced Tissue Inflammation in Patients with Lung Cancer ", IJFANS, Dec 2022 [UGC Care] e-ISSN 2320 -7876
"Systematic Industrial Process Analysis using OPC Technology", YMER Nov 2022. ISSN : 0044-0477
"Cancer Detection Using CNN with Malignancy Level Prediction", ISSN 2349-3968 ,IJETS, June 2022□
"Smart Diagnosis of Congenital Insensitivity to Pain With Anhidrosis Patients", IJETS. ISSN 2349-3968, June 2022.
"Test Scheduling and Test Time Reduction for SoC by using Enhanced Firefly Algorithm", IIETA, July 2021. DOI: https://doi.org/10.18280/ria.350310
"Efficient Implementation of Multiply accumulate Operation unit using an interlaced Partition Multiplier ", American Scientific Publishers -Dec 2020 DOI:https://doi.org/10.1166/jctn.2021.9398
"Improving the performance of solar power plants in Grid connected modes using altruistic transformative algorithm." ICTACT -July 2020.[UGC care]
"IOT based Ventilator Machine with Arduino Controller" IJARIDEA -August 2020.ISSN 2456-8805 Volume 5, Issue 4.
"Airport Trolley Tracking System" ISSN(Online): 2456-8805,IJARIDEA, Vol.5, Issue 4,27 ,August 2020.
"Wireless Notice Board with wide range Communication "IARET- ISSN: 2395-0072, July 2020.
"Hybrid Dragonfly Optimization-Based Artificial Neural Network for the Recognition of Epilepsy" DOI: https://doi.org/10.2991/ijcis.d.191022.001; ISSN: 1875-6891.
"Distributed Security Model for Remote Healthcare (DSM-RH) Services in Internet of Things Environment "JMIH September 2019. DOI:

https://doi.org/10.1166/jmihi.2020.2845
"An Efficient Model for Secure and Scalable Health Log Management in Cloud Using EH-ABE "IJET October 2018. DOI : https://doi.org/10.14419/ijet.v7i4.19.22078
"Design of Compact Antenna for Wi-Fi application" IJRE April 2017. ISSN: 2349-252X
"A Temperature Variant Relaxation Oscillator for Biomedical System" IJRE April 2017. ISSN: 2349-252X.
"A22NM Integrated Supply voltage temperature variant relaxation oscillator for Biomedical Systems" IJARBEST Mar 2017. ISSN (PRINT): 2395-695X
"A Parallel Reconfigurable Architecture for DCT of Lengths $N=32/16/8$ " International Journal of Engineering Studies and Technical Approach Mar 2016.
"Spike Detection from EEG signals with aid of Hybrid Genetic algorithm - Particle Swarm Optimization" Journal of Medical Imaging and Health Informatics Nov 2015. DOI: https://doi.org/10.1166/jmihi.2015.1480
"Removable of Harmonics in EEG Using Particle Swarm Optimization" published in International Journal of Applied Engineering Research Mar 2015. pp.28977-28982 Volume 10, Number 38
"Implementation of Fuzzy Clustering Technique on Non linear EEG Signal for Anti accident Vehicle System" published in International Journal of Applied Engineering Research Mar 2015. pp.28971-28976 Volume 10, Number 38
"Removable of Artifacts in EEG Using Extreme Learning Machine" published in International Journal of Applied Engineering Research Mar 2015 pp.28983-28989 Volume 10, Number 38
"A New Classification Method of Epileptic EEG Signals using Differential Evolution Optimally Pruned Extreme Learning Machine" in Middle East Journal of scientific research Oct 2014. DOI: 10.5829/idosi.mejsr.2014.22.06.21952
"Spike detection from EEG Signal using PSO" published in Unique Journal of Engineering and advanced Sciences Oct 2014. ISSN 2348-375X
"A New framework based on Extreme learning machine for Epileptic Seizure Detection"

published in Unique Journal of Engineering and advanced Sciences Oct 2014. ISSN 2348-375X
“Spike Detection from EEG Signals with Aid of Morphological filters and Particle Swarm Optimization” published in Journal of Nano Science and Nano Technology Feb 2014.
“Spike Detection from EEG Signals with Aid of Morphological filters and Genetic Algorithm” published in International Journal of Advanced Information Science & Tech Oct 2013. DOI:10.15693/ijaist/2013.v2i10.112-118
“Spike Detection from EEG Signals with Aid of Morphological Filters and Hybrid GAPSO” published in International Review on Computer and Software (IRECOS) Sep 2013. Vol 8, No 9 (2013) Prize worthy Prize Journal
“An Ultra -Low Power Physical Layer Design for Wireless Body Area Network” published in International Computational Engineering Research (IJCER) Feb 2013 Issn 2250-3005.
“Patient Monitoring Using Embedded PICO Web Server” published in Tech India Publications, New Delhi Mar 2005.(National Level)
“Web Based Video Monitoring of Radiological Procedures” published in Tech India Publications, New Delhi Mar 2005.(National Level)

PATENT DETAILS
Smart Pill Dispenser Device for Patient Medication Adherence Management
A AI -Enhanced IOT Framework for Real time Strawberry Disease Diagnosis and Prevention.
AI and IOT Enhanced Smart Hospitality Solutions for Personalized Guest Experiences and Operational Efficiency
A-Mobile Application Based IOT Systemfor Overhead Water Tank Maintenance.

Helmet Wear Notification System.
Sensor Fusion Techniques for Enhanced Accuracy in IOT Networks.
Smart Pad for Brain Mapping and Training in Alzheimer (AICTE -KAPILA SCHEME)
Analyze of EEG Signal for Autism Affected Children Using Machine learning approach
AI for detecting the enlargement of muscle Tissue using bio- medical imaging
AI Based on Digital Technology Aided Weaning Device for advanced Data Collection.
AI Driven IOT for M-Health application in Cloud Platform.
A-Land Survey and Registration System with video Proofing Based IOT Hyper-Ledger Cloud Module
Myo ware sensor based intelligent electric wheel chair and real time monitoring systems of the disabled patients by using Electromyogram.
HIV Detection and Monitoring using Spectrometry

ACHIEVEMENT DETAILS

COPY RIGHTS (02) :

- Copy Right Received for Computer Network Laboratory Manual - (L-89695/2020)
- Copy Right Received for Circuits and Devices Laboratory Manual (L88126\2019)
- **Puthiyathalamurai Ayutham Seivoam :-**

<https://youtu.be/yvRfhOVCNmU?si=x1uyg2qVYsxNaOtm>

ACHIEVEMENTS & AWARDS:

- Maintaining the Anna University Academic Ranking Status - Dhaanish Ahmed Institute of Technology. **Top 3 Institution** in Coimbatore Region
- Industry Connected Programs, Skill Development Training, Ins
- **Professional Membership:** ISTE, IETE, ISSE, ISRD, IAENG,GSTE, NFISR
- Dr. A.P.J. Abdul Kalam Inspire Award 2024 - Best Teaching and Research Excellence Award
- Best Principal Award in 2024- NFISRT, Coimbatore.
- Best Researcher Award in 2024 -Dhaanish Itech, Coimbatore.
- Guru Poornima Award in 2023-PAAI, Mumbai.
- Best Principal Award in 2022-Education Today, Chennai.
- Nallasriyar Virthu in 2022-Rotary Club of Chennai.
- Best Leadership Award in 2021-National Science Club, Coimbatore.
- Best Teachers Award in 2021.-Accent Techno Soft, Coimbatore.
- Best Researcher Award in 2020.- ISRD
- Outstanding Educator Award in 2019.-Accent Techno Soft, Coimbatore
- Best Academic Administrator Award in 2017-Top Engineering Society,Pondicherry
- Excellence in Professional Achievement Award (Class 1) in 2016
- Best IETE student Chapter Award for Jun 2009 – May 2010.

- College Topper in DECE in the year 1997(MPNMJ Polytechnic College)

PROFESSIONAL RECOGNITION:

- Reviewer of IEEE Conference.
- Consulting Editor for Engineering Today and Consulting Engineer for Journal of Automotive Mechanical & Aerospace Engineering Research.
- Technical Editor for Technology Today and Technical Reporter for TheTechnology World.
- Technical Consultant for Journal of Engineering Technology and Management Science and Engineering Technology Research.
- Assignment Editor for Journal of Electrical Electronics & ComputerEngineering Research.
- Reviewer for Journal of Artificial Intelligence in Medicine and AmbientIntelligence and Humanized Computing.
- Reviewer for International Journal of Computational Intelligence Systemsand Engineering and Information Sciences.
- Editor & Reviewer for i-manager Publications.
- Editor for International Journal on Engineering Technology and Sciences- IJETS.
- **Question Paper Setter, Evaluator, Scrutiny Member :-** Anna University,KSRCE, Vellalar, Nandha, Erode Sengunthar, Sri Eshwar, PA Engineering College, JKKM, Al.Ameen, Annapoorna Engg. College. and Ramiaih University, Bangalore
- **Advisor Board Member: -** ABE Semiconductor Design Chennai, Sun V Technology, Coimbatore, Knowledge Xhange, Chennai. Hanodale, Malaysia. Accent Techno Soft, Coimbatore

BOOKS PUBLISHED (09):

- IOT and Robatics : Foundations of Automation, Leilani Katie Publication, ISBN -978-93-6348-432-0
- Medical Electronics from Charulatha Publications (2024) ISBN -978-93-5577-902-1

- Advanced Biomedical Technology, Cosmas Scientific Publications(2024) ISBN -978-93-6096-125-1
- 5G & Its Principles, Tekscience Publishers (2024) ISBN -978-81-965081-3-5
- Electrical Drives and Actuators -AASAN Publications (2023) ISBN - 978-81-19313-71-6
- Advanced Digital Image Processing -Scientific International Publishing House (2023) ISBN-978-93-5757-694-9
- Artificial Intelligence -Notion Press, India.(2022) ISBN 979-888717315-3
- Electronic Devices and Circuits, Thakur Publication Pvt Ltd, Chennai.(2018)
- Electrical Circuits and Electronics Devices, Sri Krishna Publications, Chennai.(2009 & 2010).

BOOK CHAPTER:

- Chapter 16 Detection of the COVID-19 Pandemic Face Mask Using ConvNet in Busy Environments. ITRE-I-BS2022- BENTHAM SCIENCE BOOK CHAPTER REGARDING.