

Ameenudeen P E

PhD Student | Assistant Professor

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Education

PhD	Indian Institute of Science Bangalore , Electrical Engineering	Bangalore, India
	- Working with Dr. Sriram Ganapathy on applications of Deep Learning for speech processing. - Member of the LEAP Lab.	2023 – present
MTech	National Institute of Technology Calicut , Telecommunications	Calicut, India
		2010 – 2012
BTech	College of Engineering Trivandrum , Electronics and Communication Engineering	Trivandrum, India
		2005 – 2009

Experience

College of Engineering Trivandrum , Assistant Professor, Department of ECE	Trivandrum, India
	Aug 2021 – present
	5 years 1 month
Govt. Engineering College Idukki , Assistant Professor, Department of ECE	Idukki, India
	July 2019 – Aug 2021
	2 years 2 months
Codes and Signal Design Lab, Department of Electronic Systems Engineering, IISc Bangalore , Full Time Research Scholar	Bangalore, India
	Jan 2019 – July 2019
	7 months
Muthoot Institute of Technology and Science , Assistant Professor, Department of ECE	Kochi, India
	June 2016 – Dec 2018
	2 years 7 months
St. Joseph's College of Engineering and Technology Palai , Assistant Professor, Department of ECE	Palai, India
	June 2012 – May 2016
	4 years

Publications

ULTRAS-Unified Learning of Transformer Representations for Audio and Speech Signals	2025
PE Ameenudeen , C Narayanan, S Ganapathy	
(2025 IEEE Automatic Speech Recognition and Understanding Workshop (ASRU))	
Enhancing Micro Electro Mechanical System Gyroscope Data Precision Through Autoencoder-Based Denoising	2024
KS Kamath , ML Nair, R Chacko, PE Ameenudeen	
(2024 IEEE International Conference on Contemporary Computing and Communications)	
A Machine Learning Approach to Unusual Object Detection in Faint Satellite Imagery	2023
CK Sreeja , PE Ameenudeen	
(2023 9th International Conference on Smart Computing and Communications)	

Performance improvement of a MEMS gyroscope using filtering and machine learning methods R Chacko, RV Binoj, PE Ameenudeen (2023 International Conference on Control, Communication and Computing (ICCC))	2023
Denoising autoencoder for the removal of noise in brain mr images A Thomas, DK KR, D Babu, A PE (2023 International Conference on Control, Communication and Computing (ICCC))	2023
Deep learning based digital wireless communication system SK Jayakumar, NM Benoy, VM Mohan, G Nair (2023 International Conference on Control, Communication and Computing (ICCC))	2023
Bio-medical image denoising using autoencoders JM Thomas (2022 Second International Conference on Next Generation Intelligent Systems)	2022
Design of Machine learning based Decoding Algorithms for Codes on Graph J Sunny, PE Ameenudeen , RH Kumar (2022 IEEE Silchar Subsection Conference (SILCON))	2022
Zero Shot Recognition Using GCN PE Ameenudeen , D Shaikh, TM Deepa, N Pathiyil	2019
Automated accident alert S Dhanya, PE Ameenudeen , A Vasudev, A Benny, S Joy (2018 International Conference on Emerging Trends and Innovations)	2018
A meta-analysis of contrast measures used for the performance evaluation of histogram equalization based image enhancement techniques BN Anoop, PE Ameenudeen , J Joseph (2018 9th International Conference on Computing, Communication and Networking)	2018
Analysis of hard decision and soft decision decoding algorithms of LDPC codes in AWGN R Jose, A Pe (2015 IEEE International Advance Computing Conference (IACC))	2015
Error correction based on redundant Residue Number System J James, A Pe (2015 IEEE International Conference On Electronics, Computing and Communications)	2015
A novel method for error correction using Redundant Residue Number System in digital communication systems J James, A Pe (2015 International Conference on Advances in Computing, Communications and Informatics)	2015
Application of residue number system in the generation of PN-sequences for CDMA systems J James, A Pe , S Vasu, V Venu (2015 International Conference on Computing and Network Communications)	2015
Multiple error correction using non-binary Redundant Residue Number System A James, A Pe , J James, M George (2015 Annual IEEE India Conference (INDICON))	2015

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| Channel coding using low density parity check codes in AWGN
R Jose, PE Ameenudeen
(International Journal of Computer Applications) | 2015 |
| A novel method for error correction using Redundant Residue Number System in digital communication systems
J Jilu, P Ameenudeen
(2015 IEEE International Conference on Advances in Computing, Communication and Informatics) | 2015 |
| A study on solitons in optical communication systems
A Pe , M George, S Vasu, V Venu
(2015 Annual IEEE India Conference (INDICON)) | 2015 |
| Performance evaluation of regular cycle non-binary LDPC codes in AWGN channel
A Pe , AV Babu
(Proceedings of the International Conference on Advances in Computing) | 2012 |

Research Interests

- Deep Learning, Speech Processing, Speech Recognition, Speaker Recognition