

C. ABDUL HAKEEM COLLEGE OF ENGINEERING AND

Hakeem Nagar, Melvisharam-632 509

FACULTY PROFILE

Name	DR.B.A MOHAMMED HASHIM						
Gender	MALE	Date Of Birth		04-06-1986		Age	38
Present Designation	ASSOCIATE PROFESSOR			Regular / Adjunction		REGULAR	
Date of Joining	25-06-2012						
Mobile No.	-			Email	hail <u>hashimba.ece@cahcet.edu.in</u>		
Highest Educational Qualification	Ph.D			Specialization		COMMUNICATION SYSTEMS	
Additional Qualification	GATE/NET/SLET	-					
Total working Experience		(i) Teaching : 12 YEARS 10 MONTHS (ii) Industry: 1 YEAR 3 MONTHS					
Publications	Journals		Internation Journals	ernational rnals		National Journals	-
	Conferences		International Conferences		03	National Conferences	-
No. of Patent							
No of Workshops/Seminars/Conferences/ FDP attended	FDP: 02 Seminars: 03 Workshops :-						
No of Workshops/Seminars/Conferences/ FDP organized	FDP: - Seminars: 03 Workshops: 02						
No of UG / PG / Ph.D Guidance:	UG: 24 PG: 03 PhD :-						
Membership in Professional Bodies	ISTE, IAENG						
Awards / Recognition Received	Student Project Scheme funding from TNSCST in the academic years 2021-22 & 2022-23 & 23-2024						
Other Responsibilities, if any	NBA, IQAC & Dean- Research & Innovation						

JOURNAL DETAILS

Journals

[•] **B. Mohammed Hashim** and R. Amutha, "<u>Elderly People Activity Recognition Based on Object Detection Technique</u> <u>Using Jetson Nano</u>", Wireless Personal Communications, vol. 134 ,pp. 2041-2057, April 2024. Link: <u>https://link.springer.com/article/10.1007/s11277-024-10982-y</u>

- Mohammed Aarif, K. O., Mohamed Yousuff, C., Mohammed Hashim, B. A., Mohamed Hashim, C., & Sivakumar, P. (2022). Smart bin: Waste segregation system using deep learning-Internet of Things for sustainable smart cities. *Concurrency and Computation: Practice and Experience*, *34*(28), e7378. Link: https://onlinelibrary.wiley.com/doi/abs/10.1002/cpe.7378
- **B. Mohammed Hashim** and R. Amutha, "Deep transfer learning based human activity recognition by transforming IMU data to image domain using novel activity image creation method", *Journal of Intelligent & Fuzzy Systems*, pp. 1-8, March 2022. doi: 10.3233/jifs-213174.

Link: https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy systems/ifs213174

- **M. B A** and A. R, "Elderly Hajj pilgrims activity recognition based on candidate classification technique", *Concurrency and Computation: Practice and Experience*, March 2022. doi: 10.1002/cpe.6932. Link: <u>https://onlinelibrary.wiley.com/doi/abs/10.1002/cpe.6932</u>
- **B. Mohammed Hashim** and R. Amutha, "Human activity recognition based on smartphone using fast feature dimensionality reduction technique", *Journal of Ambient Intelligence and Humanized Computing*, vol. 12, no. 2, pp. 2365-2374, July 2020. doi: 10.1007/s12652-020-02351-x. Link: https://link.springer.com/article/10.1007/s12652-020-02351-x

Conferences

- Hashim, B. M., & Amutha, R. (2021, April). Machine Learning-based Human Activity Recognition using Neighbourhood Component Analysis. In 2021 5th International Conference on Computing Methodologies and Communication (ICCMC) (pp. 1080-1084). IEEE.
- Kumar, S., Yogesh, T., Prithiv, M., Alam, S., **Hashim, B. A.**, & Amutha, R. (2020, March). Data Mining Technique based Ambient Assisted Living for Elderly People. In 2020 Fourth International Conference on Computing Methodologies and Communication (ICCMC) (pp. 505-508). IEEE.
- Sangavi, S., & Hashim, B. M. (2019, March). Human Activity Recognition for Ambient Assisted Living. In 2019 International Conference on Vision Towards Emerging Trends in Communication and Networking (ViTECoN) (pp. 1-4). IEEE.

Book Chapters

- Mohammed Aarif, K. O., Sivakumar, P., Caffiyar, M. Y., Hashim, B. A., Hashim, C. M., & Rahman, C. A. (2023). Nature-Inspired Optimization Algorithms: Past to Present. In *Nature-Inspired Optimization Methodologies in Biomedical* and Healthcare (pp. 1-32). Springer, Cham.
- Aarif, M., Sivakumar, P., Mohamed Yousuff, C., & Hashim, M. (2021). Deep MammoNet: Early Diagnosis of Breast Cancer Using Multi-layer Hierarchical Features of Deep Transfer Learned Convolutional Neural Network. In *Advanced Machine Learning Approaches in Cancer Prognosis* (pp. 317-339). Springer, Cham.

Received Project Grant from TNSCST:

- A. Received a Grant of Rs. 7,500.00 Project Title Tamil air writing recognition application for dyslexic people under student project scheme in the academic year 2023-24. (Completed)
- B. Received a Grant of Rs. 7,500.00 Project Title Recognition of Sign Language using Jetson for Speech & Hearing Impairment People under student project scheme in the academic year 2022-23. (Completed)
- C. Received a Grant of Rs. 7,500.00 Project Title —Jetson based activity monitoring system for elderly people at home under student project scheme in the academic year 2021-22. (Completed)

Niral Thiruvizha:

Niral Thiruvizha was organized by Government of Tamilnadu in the academic year of 2023-2024 event in Salem. Guided two projects.

The participant's project titles are,

1. A digital printing project to control water consumption during the dyeing process was presented by Asifa S and Hari Priya K.

2. E tricycle project for individuals with physical disabilities was presented by Aswini V, Mahalakshmi B, and Harini K.

GRANTS

NIDHI PRAYAS Grant Awarded to Dr. B.A. Mohammed Hashim.

Dr. B.A. Mohammed Hashim, Associate Professor, Dean of Research and Innovation, Head of the Department of Electronics and Communication Engineering, has received the NIDHI PRAYAS Grant of ₹5,00,000.

The funding is provided under the NIDHI PRAYAS scheme, which is supported by the Department of Science & Technology (DST), Government of India, to promote innovation and prototype development.