Anusha R

Personal info

Email: anur.research@gmail.com
Address: Door No. 378/1, Amma Nilaya, Nijalingappa Layout, Davanagere-577004
Phone number: 9743220915

Career Objective

To obtain a suitable position in a reputed organization where I can apply my education and personal qualities to the fullest, and continue to grow my learning and knowledge.

Education

National Institute of Technology Karnataka, Surathkal 2016-2021
Doctor of Philosophy

Bapuji Institute of Engineering and Technology, Davanagere 2011-2013
Master of Technology in Computer Science and Engineering

University B.D.T College of Engineering, Davanagere 2007-2011
Bachelor of Engineering in Computer Science and Engineering

Professional Experience

Associate Professor in the Dept. of Computer Science and Engineering at Bapuji Institute of Engineering and Technology, Davanagere
February 2024 - Till date

Assistant Professor in the Dept. of Master of Computer Applications at KLE Dr. M. S. Sheshgiri College of Engineering and Technology, Belagavi
October 2022 - February 2024

Assistant Professor in the Dept. of Computer Science and Engineering at KLE Dr. M. S. Sheshgiri College of Engineering and Technology, Belagavi
October 2021 - October 2022

Teaching Assistant in the Dept. of Information Technology at National Institute of Technology Karnataka, Surathkal
July 2016 - September 2020

Assistant Professor in the Dept. of Computer Science and Engineering at Bapuji Institute of Engineering and Technology, Davanagere
July 2015 - June 2016

Research Interests

Biometrics and Machine Learning

Courses Taught

Operating System, Principles of Programming using C and Machine Learning

Fellowship

Recipient of the Visvesvaraya Ph.D. Fellowship (Awarded by the Ministry of Electronics and Information Technology, Government of India)

Publications

Journal Papers

1. **Anusha R**, and Jaidhar C D. (2019), "Human gait recognition based on histogram of oriented gradients and Haralick texture descriptor", Journal of Multimedia Tools and Applications, Springer, DOI 10.1007/s11042-019-08469-1. **(Q1, SCIE and Scopus Indexed)**

2. **Anusha R**, and Jaidhar C D. (2019), "Clothing invariant human gait recognition using modified local optimal oriented pattern binary descriptor", Journal of Multimedia Tools and Applications, Springer, DOI 10.1007/s11042-019-08400-8. **(Q1, SCIE and Scopus Indexed)**

3. **Anusha R**, and Sunil C K. (2025), "Feature Integration for Frontal Gait Recognition through Contour Image Analysis", Journal of Signal, Image and Video Processing, Springer, DOI 10.1007/s11760-024-03655-7. **(Q2, SCIE and Scopus Indexed)**

Conference Papers

1. **Anusha R**, and Jaidhar C D. (2018), "On human identification using running patterns: a straightforward approach", In 18th International Conference on Intelligent Systems Design and Applications, (ISDA 2018), **Advances in Intelligent Systems and Computing, Springer**, DOI 10.1007/978-3-030-16660-1 32. **(Scopus Indexed)**

2. **Anusha R**, and Jaidhar C D. (2019), "An approach to speed invariant gait analysis for human recognition using mutual information", International Conference of IEEE region 10, (TENCON 2019), **IEEE**, DOI: 10.1109/TENCON.2019.8929256. **(Scopus Indexed)**

3. **Anusha R**, and Jaidhar C D. (2019), "Frontal gait recognition based on hierarchical centroid shape descriptor and similarity measurement", In 5th International Conference on Data Science and Engineering, (ICDSE 2019), **IEEE**, DOI: 10.1109/ICDSE47409.2019.8971477. **(Scopus Indexed)**

4. **Anusha R**, and Jaidhar C D. (2019), "Gaussian filtered gait energy template and centroid corner distance features for human gait recognition", In 14th International Conference on Industrial and Information Systems, (ICIIS 2019), **IEEE**, DOI: 10.1109/ICIIS47346.2019.9063346. **(Scopus Indexed)**

5. **Anusha R**, and Jaidhar C D. (2023), "Speed-invariant Gait Recognition using Correlation Factor Lists for Classroom Attendance Systems", In 5th International Conference on Machine Learning, Image Processing, Network Security, and Data Sciences (MIND 2023), **Communications in Computer and Information Science, Springer**, DOI 10.1007/978-3-031-62217-5_24. **(Scopus Indexed)**

6. **Anusha R**, and Jaidhar C D. (2024), "FASE Module Enabled Recognition of Individuals Using Distinct Gait Patterns", In IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT 2024), **IEEE**, DOI: 10.1109/CONECCT62155.2024.10677277. **(Scopus Indexed)**

7. **Anusha R**, and Shridhar Sanshi. (2024), "Spatial Dynamics for Identification of Individuals through Gait and Other Locomotion Activities", In IEEE International Conference on Intelligent Signal Processing and Effective Communication Technologies (INSPECT 2024), **IEEE**, DOI: 10.1109/INSPECT63485.2024.10896002. **(Scopus Indexed)**

8. **Anusha R**, and Shridhar Sanshi. (2025), "Score-based Feature Reduction for Efficient Frontal Gait Recognition", In 6th International Conference on Communication and Intelligent Systems (ICCIS 2024), **Lecture Notes in Networks and Systems, Springer**. **(Scopus Indexed) (Accepted and Presented)**

9. **Anusha R**, and Shridhar Sanshi. (2025), "Gait Recognition Module Based on Metrics for Speed-Invariant Classroom Attendance System", In 3rd International Conference on Microwave, Optical and Communication Engineering (ICMOCE 2025), **Lecture Notes in Electrical Engineering, Springer**. **(Scopus Indexed) (Accepted and Presented)**

10. **Anusha R**, and Shridhar Sanshi. (2025), "Hybrid Feature Model Enabled Age Prediction Using Wearable Sensor-based Gait Analysis", In 16th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2025), **IEEE**. **(Scopus Indexed) (Accepted)**

11. **Anusha R**, Spoorthi Singh and S Basavarajappa. (2025), "Selected Nearest Block Algorithm for Identifying Individuals based on their Gait Patterns", In 16th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2025), **IEEE**. **(Scopus Indexed) (Accepted)**

12. **Anusha R**, and Shridhar Sanshi. (2025), "An Integrated Module for Age Prediction through Wearable Sensor-based Gait Analysis", In IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT 2025), **IEEE**. **(Scopus Indexed) (Accepted)**

13. **Anusha R**, and Shridhar Sanshi. (2025), "Corner Structure Descriptors Enabled Efficient Gait Recognition", In 6th International Conference on Data Science and Applications (ICDSA 2025), **Lecture Notes in Networks and Systems, Springer**. **(Scopus Indexed) (Accepted)**

14. Spoorthi Singh, **Anusha R**, Navya Hegde, S Basavarajappa, Vishnu G Nair and Ramya S Moorthy. (2025), "Enhancing Aerial -Robot Navigation: A Comparative Study of Direct and Feature-Based SLAM Techniques for Real-Time 3D Mapping", In 22nd Control Instrumentation Systems Conference (CISCON 2025), **IEEE**. **(Scopus Indexed) (Accepted)**

Book Chapter

1. **Anusha R**, and Jaidhar C D. "Identifying Humans Through Gait Features", In 20th International Conference on Distributed Computing and Intelligent Technology (ICDCIT 2024) Ph.D. Research Symposium, **Intelligent Technologies: Concepts, Applications, and Future Directions, Springer** DOI. 10.1007/978-981-97-5204-1_5. **(Scopus Indexed)**

Current Academic Responsibilities

1. Skill Development Coordinator of the department.
2. Time table coordinator of the department.
3. Coordinator for NBA criteria 5 and NAAC criteria 2.2, 2.3 and 6.
4. Involved in framing scheme and syllabus for the upcoming academic year.

Current Projects (on going)

1. Clothing invariant gait recognition.
2. Development of smart classroom attendance system.
3. Wildlife conservation and monitoring through artificial intelligence.

Workshops/Short Term Courses Attended

1. Workshop on **IoT (Internet of Things)** organized by Indian Institute of Information Technology Dharwad from 22nd April 2017 to 23rd April 2017.
2. Workshop on **IoT (Internet of Things)** organized by National Institute of Technology Karnataka, Surathkal on 13th January 2017.
3. Workshop on **Motion Understanding for Medical Applications** organized by National Institute of Technology, Rourkela from 25th August 2017 to 29th April 2017.
4. Workshop on **Activity based Learning with Emphasis to Problem based Learning in Engineering Education** organized by Dr. M S Sheshgiri College of Engineering and Technology, Belagavi from 25th November 2021 to 27th November 2021.
5. GIAN course on **Mathematical Methods for Image Processing** organized by National Institute of Technology Karnataka, Surathkal from 23rd October 2017 to 27th October 2017.
6. Tutorial session on **System Design Challenges & Solutions using National Instruments Platform** conducted as a part of IEEE TENCON 2019, organized by IEEE Kerala section, from 17th October 2019 to 20th October 2019.
7. Tutorial session on **Deep Learning with MATLAB** conducted as a part of IEEE TENCON 2019, organized by IEEE Kerala section, from 17th October 2019 to 20th October 2019.
8. Research evaluation workshop for presentation of **Research Work** organized by Visvesvaraya PhD Scheme for Electronics & IT/ITES held at Punjab Engineering College, Chandigarh from 17th July 2019 to 19th July 2019.
9. Participated in **International Conference on Applied and Theoretical Computing and Communication Technology** held at Bapuji Institute of Engineering & Technology, Davanagere from 29th October 2015 to 31st October 2015.
10. Participated in the tenth edition of **Research in Engineering Education Symposium** held at KLE Technological University, Hubballi from 4th January 2024 to 6th January 2024.
11. Engaged classes in **Summer Internship** held at National Institute of Technology Karnataka, Surathkal from 11th June 2018 to 6th July 2018.
12. Attended three days Faculty Development Program on **Advanced Teaching Techniques** held at Bapuji Institute of Engineering & Technology, Davanagere from 22nd July 2024 to 24th Julyy 2024.
13. Attended five days Faculty Development Program on **Generative AI and DevOps** held at Bapuji Institute of Engineering & Technology, Davanagere from 17th February 2025 to 21st February 2025.