**ANNAMACHARYA UNIVERSITY FACULTY DETAILS FOR WEBSITE**

**About Profile**



NAME: **Dr. FAHIMUDDIN SHAIK**

DATE OF BIRTH: **06-02-1983**

 DESIGNATION: **Associate Professor**

DEPARTMENT: **ECE**

 EMAIL ID: fahimaits@gmail.com, sfn@aitsrajampet.ac.in

DATE OF JOINING: **12-08-2006**  EMPLOYEE ID: **AITS041004**

## Academic Profile

|  |  |  |
| --- | --- | --- |
| **Qualification** | **Name of the Board/University** | **YEAR** |
| Ph.D | SunRise University, Alwar, Rajasthan | 2016 |
| M.Tech | JNTU, Hyderabad | 2007 |
| B.Tech | JNTU, Hyderabad | 2005 |

## Research Details

1. **Areas of Specialization**: Digital Image Processing, Bio-Medical Image Processing,

1. **List of Publications**: 207

 Journals: 134, Conferences: 64, Books: 09

1. **Awards Received**: 02
* Early Career Research Award Scheme by DST , India (Research Funding of 34 Lakhs)
* Research Excellence Award – 2023 by AGAR, Tamilnadu
1. **Research Guidance:**
2. No. of Ph.D Guided: **03** (Guiding)
3. No. of M.Tech Guided: **20**
4. No. of B.Tech Guided: **38**
5. **Details of Professional Membership:**
* Senior Member - Institute of Electrical and Electronics Engineers (IEEE), USA
* Life Member-Indian Society for Technical Education, India
* Life Member-Bio-Medical Engineering Society of India
1. **Subjects Taught:**

 Digital Image Processing, Cellular Mobile Communications, Optical Fiber Communication, Design Thinking and Innovation, Signals and Systems, Analog Communication, Digital Communication, Electromagnetic Waves and Transmission Lines, Antenna and Wave Propagation, Electronic Devices and Circuits, Radar Engineering, Wireless Communications and Networks, Digital Signal Processing, Probability Theory and Stochastic Processes, Nano Electronics

## Publication Details

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Title** | **Publisher** | **Published Year** |
|  | Enhanced multi-grade diabetic retinopathy detection and classification via ensembled deep learning model from retinal fundus image | Elsevier  | 2025 |
|  | An integrated method for detecting lung cancer via CT scanning via optimization, deep learning, and IoT data transmission | Frontiers  | 2025 |
|  | Improvised Spectral Efficiency and Channel Estimation Parameters in Visible Light Vehicular Communication by Integrating Simulation of Urban Mobility Data | IEEE  | 2025 |
|  | Detection of Cardio Vascular abnormalities using gradient descent optimization and CNN | Springer Nature | 2024 |
|  | Blockchain-Enhanced Convolutional Neural Networks for Efficient Detection of Cardiovascular Abnormalities  | Taylor & Francis | 2024 |
|  | Multimodal Medical Image Fusion Using Minimization Algorithm | Springer Nature | 2023 |
|  | Perimeter Degree Technique for the Reduction of Routing Congestion during Placement in Physical Design of VLSI Circuits | Wiley – Hindawi | 2022 |

## Patent Details

| **S. No.** | **Title of Patent** | **Submitted/Published/Awarded** |
| --- | --- | --- |
|  | Computer-Implemented System for Analyzing Human Brain Images Using Functional Imaging Data | Published |
|  | System and Computer Implemented Methods for Analyzing Features of Digital Medical Images | Published |
|  | System and Computer Implemented Methods for Analyzing Features to Generate Sleep Disorder Insights | Published |
|  | Computer Implemented Method and System for Processing Qualitative Imaging to Detect and Forecast Abnormalities | Published |
|  | Computer-Implemented System for Optimizing Placement and Routing in Very-Large-Scale Integrated Circuit Design | Published |
|  | Computer automated method for Detection of Brain Tumor | Published |
|  | Method for Study and Detection of Tuberculosis | Published |
|  | Design and Development of A CAD System Using IR Thermograph Images to Detect Diabetic Foot Ulcers | Published |
|  | Method for Medical Image Analysis | Published |