**ANNAMACHARYA UNIVERSITY FACULTY DETAILS FOR WEBSITE**

**About Profile**



NAME: **Dr. K. SHANKAR**

DATE OF BIRTH: **25-07-1987**

DESIGNATION: **Associate Professor**

DEPARTMENT: **E.C.E.**

EMAIL ID: **shan87.maddy@gmail.com**

DATE OF JOINING: **20-06-2019**

EMPLOYEE ID: **AITS041049**

## Academic Profile

| **Qualification** | **Name of the Board/University** | **YEAR** |
| --- | --- | --- |
| **Ph.D.** | **Annamalai University**  **(Tamil Nadu Government University)** | **2019** |
| **M.Tech.** | **PRIST University, Thanjavur** | **2010** |
| **B.Tech.** | **Anna University** | **2008** |
| **+2** | **State Board** | **2004** |
| **10th** | **Matriculation** | **2002** |

## Research Details

1. Areas of Specialization: Image Processing

Communication Systems

1. List of Publications: 26
2. Awards Received : 03
3. Research Guidance:
4. No. of PhD Guided: 02 (Ongoing)
5. No. of M.Tech Guided: 05
6. No. of B.Tech Guided: 30
7. Details of Professional Membership:

ISTE Life Member : LM 82321

1. Subjects Taught: EDC, Analog Communication,

Digital Communication, EMI, Radar Engineering, MPI, WCN, DIP

## Publication Details

|  |  |  |
| --- | --- | --- |
| **Title** | **Publisher** | **Published Year** |
| Analysis of Cluster based zone routing protocol in MANET through Network Simulator | International Journal of Engineering and Advanced Technology | 2013 |
| Implementation of Saliency Detection in Motion Fields | International Journal of Scientific & Engineering Research | 2015 |
| Unsupervised Segmentation of Natural Images Based on Contour | World Applied Sciences Journal | 2016 |
| Natural Image Denoising and Enhancement Based On Iterative Bilateral  Filter | Journal of Chemical and Pharmaceutical Sciences | 2017 |
| Natural Image Enhancement and Segmentation using Contrast Reduced Dynamically  Modified Histogram Equalization (CRDHE) | International Journal of Exploring Emerging Trends in Engineering | 2017 |
| Discovering Anomalies Based on Saliency Detection and  Segmentation in Surveillance System | International Journal of Trend in Scientific  Research and Development | 2017 |
| Edge Detection Techniques in Processing Digital  Images: Investigation of Canny Algorithm | International Journal of Scientific Engineering and Science | 2017 |
| Unsupervised Segmentation for Better FR within Human Machine  Interfaces | International Journal of Latest Engineering Research and Applications | 2018 |
| Segment Extraction For Path  Identification From Satellite  Images By Various Algorithms | International Journal of Creative Research Thoughts | 2018 |
| Segmenting Of Images For Superior Feature Extraction Through  Level Set Method | International Journal of  Recent Scientific  Research | 2018 |
| Collective Electro Encephalo Graph  Signals By Means Of Wavelet  Transforms | Journal of Emerging Technologies and Innovative Research | 2019 |
| SATELLITE IMAGE ENHANCEMENT USING DT-CWT-ABFRE-TECHNIQUE | The International journal of analytical and experimental modal analysis | 2020 |
| RFID BASED INTELLIGENT BOOKS SHELVING SYSTEM | The International journal of analytical and experimental modal analysis | 2020 |
| Scheduling and resources allocation in network traffic using  multiobjective, multiuser joint traffic engineering | Wireless Networks | 2020 |
| Performance investigation of spectral-efficient high-speed Inter-satellite optical wireless communication link incorporating polarization division multiplexing | Optical and Quantum Electronics | 2021 |
| Design Of Dual Band Cpw Fed Line Microstrip Patch Antenna  For Gps And Wlan Applications | Journal of Interdisciplinary Cycle Research | 2021 |
| Design Security System Based On Arduino  Using Motion Tracking Camera | Journal of Engineering Sciences | 2021 |
| Hierachical Approximation Unit In High Radix Booth Squarer For Error Tolerant Applications | International Journal Of Analytical And Experimental Modal Analysis | 2022 |
| Design Of Dual Band CPW Fed Line Microstrip Patch Antenna For Gps And Wlan Applications | Journal Of Interdisciplinary Cycle Research | 2022 |
| Coordination Of Mobile Sensor For Target Tracking By Using Kalman Filter | IJFANS International Journal of Food and Nutritional Sciences | 2022 |
| Melanoma Skin Segmentation Process  Using PCA and Morphological Methods | Studies in Computational Intelligence | 2022 |
| Smart Reflecting Surface Approach for Reconfigurable Wireless Signal Transmission | Lecture Notes in Electrical Engineering | 2023 |
| ML Based Intelligent Transport System Through GPS and Traffic Analysis | Lecture Notes in Electrical Engineering | 2023 |
| Enhanced Image Dehazing Using Contrast-Based Fusion Techniques | Cognitive Science and Technology | 2025 |
| IoT Based Delivery Robot with Theft Detection  for Food and Goods Supply | E3S Web of Conferences | 2025 |
| An Efficient Soft Descrambling Procedure to Enable Soft-Source-Information-Combining for Wireless Networking | Cognitive Science and Technology | 2025 |

## Patent Details

| **Sno.** | **Title of Patent** | **Submitted/Published/Awarded** |
| --- | --- | --- |
| **1** | DESIGN AND INVESTIGATION OF LOW POWER MULTI-THRESHOLD CMOS BASED STATIC-RAM CUBICLE FOR MODERN IOT APPLICATIONS | **Published** |
| **2** | COMPUTER – IMPLEMENTED SYSTEM FOR ANALYZING HUMAN BRAIN IMAGES USING FUNCTIONAL IMAGING DATA | **Published** |
| **3** | IOT SYSTEM TO DETECT AND ANALYSE GAIT OF INDIVIDUAL AND METHOD EMPLOYED THEREOF | **Published** |
| **4** | IEMG-POWER BANK: INTELLIGENT ELECTRONICS MODERN GAUGEATE POWERBANK | **Published** |