Mr. A. Ravi Raja

Designation : Assistant Professor

E-Mail ID : araviraja@vrsiddhartha.ac.in

Contact at : EC-313, Department of Electronics and Communication Engineering, Velagapudi Ramakrishna Siddhartha Engineering College,Deemed to be University, Kanuru, Vijayawada, Krishna (Dt.), Andhra Pradesh 520007.

Education

Ph.D. (Electronics and Communication Engineering)
(Pursuing), S. R. M. Institute of Science & Technology, Chennai

M.Tech (Communication Engineering and Signal Processing)
2013, Velagapudi Ramakrishna Siddhartha Engineering College, JNTUK

B.Tech (Electronics and Communication Engineering)
2011, Vasireddy Venkatadri Institute of Technology, JNTUK

Experience

Period	Designation	Institution / Organization
2013-2014	Research fellow	Velagapudi Ramakrishna Siddhartha Engineering College
2014-Till Date	Assistant Professor	Velagapudi Ramakrishna Siddhartha Engineering College

Research Interests

Broad Area of Research :

- Bio-medical Signal & Image Processing
- Digital Signal & Image Processing
- Remote Sensing Applications

Courses Taught

UG:

- Electronic Devices and Circuits
- Digital Image Processing
- Advanced Wireless Communications
- Cryptography and Data Security
- Introduction to Machine Learning
- Optical Communications
- Global Navigation and Satellite Systems
- Satellite Communications
- Computer Networks
- Remote Sensing and GIS
- Artificial Neural Networks
- Basics of Electronics

PG:

- Advanced Digital Communications
- Advanced Digital Image Processing

Research Profile

Publications

The recent publications and research contributions can be viewed from the following URLs

Google Scholar	https://scholar.google.com/citations?user=we6WVRAAAAAJ&hl=en
Scopus	https://www.scopus.com/authid/detail.uri?authorId=24776512000
ORCID	http://orcid.org/0000-0001-9543-0860
Publons	https://publons.com/researcher/3700200/raviraja-akurathi/
Research Gate	https://www.researchgate.net/profile/Raviraja_Akurathi2
LinkedIn	https://www.linkedin.com/in/raviraja-akurathi-08326075/
IRINS	https://vrsiddhartha.irins.org/profile/330125

Funded Research Projects

Completed	03

	1. **Title:** Development of Image Processing methods for assessing the content of Trees outside Forest Area (TOF) using IRS High Resolution Satellite Images.
	  • **Duration:** 2012-2014, 2 Years
	  • **Contract No:** N.B. 19012/44/2012-II dated 25.05.2012
	  • **Sanctioned Amount:**Rs. 10,10,000/- Lakhs
	2. **Title:** Development and Evaluation of Algorithms for automated Tree Delineation and Tree Parameters (Height and Crown Diameter) Estimation for Forestry Applications
	  • **Duration:** 2016-2018, 2 Years
	  • **Contract No:** ISRO/RES/4/627/16-17 dated 30.10.2017
	  • **Sanctioned Amount:**Rs. 16,90,000/- Lakhs
	3. **Title:** Development of Web Based Tools for online/offline Inclusion of Value-added Services and Analysis on BHUVAN for High Resolution Satellite Imagery
	  • **Duration:** 2016-2018, 2 Years
	  • **Contract No:** ISRO/RES/4/626/16-17 dated 7.11.2017
	  • **Sanctioned Amount:**Rs. 14,50,000/- Lakhs

Patents

Published	03

	1. **Application number:** 202441042093
	   • **Title:** Exploring The Positive Impact of ML And Social Media on Academic Performance and Mental Well-Being in the Smart Learning Era: A Student Perspective
	   • **Published on:** 07.06.2024
	2. **Application number:** 202241071402
	   • **Title:** A Methodology to Analyse the Images of Kidney Captured Using Medical Modalities for Anomaly Detection with Algorithms of Machine Learning
	   • **Published on**: 30.12.2022
	3. **Application number:** 202241005364
	   • **Title:** An IoT integrated blockchain technique to handle security information over cloud
	   • **Published on:** 11.02.2022

Professional Service / Reviewer

- Biomedical Signal Processing and Control
- Computers & Electrical Engineering
- Heliyon
- Image and Vision Computing
- Measurement
- Signal Processing

Professional Development Activities - Participations

Faculty Development and Training Programmes (at least 5 Days)	20
International / National Level Seminars	10
International / National Level Conferences	20
Workshops	15
Instructor Led / Self-Paced Courses	20
Webinars	15

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(Mr. A. Ravi Raja)

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