Dr. Vuyyuru Keerthi Kiran

Associate Professor
Department of Electronics & communication Engineering
Raghu Engineering College, Dakamarri - 531162, Andhra Pradesh,
India
Keerthikiran.vuyyuru@raghuenggcollege.in
Interests: Digital image processing and Computer vision applications

Course Taught Previously

UG
- Signals and Systems
- Analog Communications
- Pulse and Digital Circuits
- Digital Signal Processing
- Digital Communications
- Computer Networks
- Wireless Sensor Networks
- Cellular Mobile Communications
- Data Communications
- Satellite Communications
- Digital Image Processing

Laboratories Handled
- Electronic Devices
- Analog Communications
- Digital Communications
- Digital Signal Processing
- Digital Signal Processing
- Digital Image and Video Processing
- Pulse and Digital Circuits

Publications

International Journals

- **V. Keerthi Kiran**, Sonali Dash and Priyadarsan Parida, "Vehicle detection in varied weather

conditions using enhanced deep YOLO with complex wavelet," *Engineering Research Express*, 6(2), 025224, 2024

- **V. Keerthi Kiran**, Priyadarsan Parida, and Sonali Dash, "Edge preserving noise robust deep learning networks for vehicle classification," *Concurrency and Computation: Practice and Experience*, p.e7214, 2022.

- **V. Keerthi Kiran**, Sonali Dash and Priyadarsan Parida, "Improvement on deep features through various enhancement techniques for vehicles classification," *Sensing and Imaging*, vol. 22, no.1, p.41, 2021.

- **V. Keerthi Kiran**, Priyadarsan Parida and Sonali Dash, "Vehicle Detection and Classification: A Review", *Journal of Information Assurance and Security*, vol. 8, pp. 076-093, May, 2020.

- **V.Keerthi Kiran**, K.Shanmukhi, D.Yaswanth Surya Sainath Yadav, Suhasini Biswal, L.Sai Dheeraj, "A Search and Rescue System for Alive Human in Disasters Management", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume 9, Issue 5, May 2020.

- **V.Keerthi Kiran**, Y. Lokesh, P. Mounika, Rohit Kumar K, Ch. Mohan Kumar, "A New Approach towards Brain MRI Image Segmentation and Classification", The International Journal of Innovative Research in Computer and Communication Engineering, Volume 8, Issue 5, May 2020.

- **V.Keerthi Kiran**, R.S.Madhavi, B.Padmavathi, K.Rohit Reddy, V. Prem, "Smartphone Based Wheelchair Control and Monitoring of Environment", *International Journal & Magazine of engineering, Technology, Management and Research*, vol. 6, no. 4, April-2019.

- **V. Keerthi kiran**, D.L. Mounika, T.V.S.B Chandra, Ayushman Chandra, A.L.D.Rohith, "Smart Door Security and Surveillance Using Raspberry Pi", International Journal of Research in Electronics and Computer Engineering, vol. 7. No. 1, March 2019.

- **V. Keerthi kiran**, K. Tarun, G. Manoj Kumar, K. Sai Sekhar, D. Sai Dhanush, "Wi-Fi Based Voice Controlled Home Automation System", International Journal of Scientific Engineering and Technology Research, Vol. no: 07, IssueNo.03, March-2018.

- B. Surekha, K. Aruna Manjusha, **V. Keerthi Kiran**, B. Priyanka, "Embedded Monitoring of Industrial Process through Wireless Communication", International Journal for Research Trends and Innovation, vol. 02, no.07, 2017.

- Mudidana Venkatesh, **V. Keerthi Kiran**, "A novel approach to implement scalable DCT architecture for timing critical applications", International Journal of VLSI System Design and Communication System, vol.05 no.06, June-2017.

- M. Vijaya Prasad, **V. Keerthi Kiran**, K. Pradeep, "Optimizing Data Encoding technique for Dynamic Power reduction in Network on Chip", International Research Journal of Engineering Technology, vol.04 no. 03, Mar-2017.

Conference Proceedings

- **V. Keerthi Kiran**, Sonali Dash, and Priyadarsan Parida, "Vehicle Recognition using extensions

of Pattern Descriptors", *IOP Conference Series: Materials Science and Engineering*, vol. 1166, no. 1, p. 012046, July 2021.

- BR Barik, **V Keerthi kiran**, GM Rao, "Designing of an ultra-high frequency band pass filter using HFSS", Open Journal of Technology & Engineering Disciplines, 2016.

Workshops/Conferences/Seminars/Symposiums/STTP/FDP organised

Name of the Programme	Place	Date
2 Day Technical Lecture Series on "Artificial Intelligence/Machine Learning through Case Studies"	Raghu Institute of Technology Visakhapatnam, AP, India.	12-13 June, 2020
STTP on "ICT Tools for Engineering College Teaching and OBE"	Dept of ECE, Raghu Institute of Technology (A), Visakhapatnam	05 Oct – 10 Oct 2020.
FDP on "Real Time Embedded Systems and IoT, its applications"	E & ICT Academy, NIT, Warangal & Raghu Institute of Technology	June 2018.
A three-day Faculty STTP on "Emerging & Convergent in Access Technologies"	Raghu Engineering College	08 Dec 2023 – 10 Dec 2023

Workshops, Webinars, Seminars, FDP – Attended

Name of the Programme	Place	Date
Technical talk on "Signal PROCESSING Applications in under water communications"	Raghu Engineering College	6 April 2024
One day International Workshop on "Advances in Wireless Communications and Antenna Technologies in Space, Vehicular and Ground Applications"	Dept. of ECE, Raghu Institute of Technology	12 June, 2023
5-day Online UHV FDP on "Inculcating Universal Human Values in technical education"	AICTE	6 March – 10 March 2023.
Foundation Level for Innovation Ambassador	MOE's Innovation Cell, AICTE	26 July, 2022
5 Day Online Faculty Development Program under AICTE Training & Learning Academy on "Bio-Medical Signal Processing for Smarter Mobile Healthcare"	Department of Electronics and Communication Engineering, GIET University, Gunupur, Odisha, India.	19 July - 23 July 2021
STTP on "Advance & Emerging Trends in Signal Processing using Machine Learning"	Dept. of ECE, GIET University	21-26 Dec, 2020.
One week online Professional Development Programme on "IEEE Authorship and Publication Ethics"	Educational Society Chapter of IEEE Vizag Bay Section	14-18 Dec, 2020.
FDP on "Machine Learning for Computer Vision"	EICT Academy MNIT Jaipur	02-08 July, 2020
FDP on "Applied Machine Learning and Deep	Andhra Pradesh State Skill	15-20 June

Learning"	Development Corporation, Andhra Pradesh	2020
FDP on "Image Processing and Computer Vision"	ANITS College, Visakhapatnam	29-31 May, 2020
FDP on "Imaging & Embedded Processing"	Electronics and Communication Engineering Department, NITTTR, Chandigarh	11-15 May, 2020.
Two Day online webinar on "Art of Writing Research Paper, Covid-19 Data to Learn Data science lessons, Video Analytics for Surveillance IoT Applications"	Research & Development Department, GIET University.	1-2 May, 2020
FDP on "Signal Processing for 5G Wireless Communications"	E & ICT Academy, NIT, Warangal & Lendi Institute of Engineering & Technology	Nov 2018.
FDP on "Design and Analysis of RF Antennas using HFSS software"	E & ICT Academy, NIT, Warangal & SASI Institute of Technology & Engineering	Nov 2017.

Additional Responsibility
Responsibilities within the institute:
- Innovation ambassador for Institution's Innovation Council (IIC), Ministry of Education's Innovation Cell.
- Training and Placement Co-Ordinator

Positions held outside the institute:
- IQAC Co-Ordinator at Raghu Institute of Technology.
- NIRF Co-Ordinator at Raghu Institute of Technology.
- Training and Placement Co-Ordinator at Raghu Institute of Technology
- IETE Co-Ordinator at Raghu Institute of Technology
- National Service Scheme Co-Ordinator at Raghu Institute of Technology
- Co-Ordinator for Entrepreneurship Development and Career Guidance Cell at Baba Institute of Technology & Sciences (BITS)
- Dept. Co-Ordinator for Training and Placement Cell at BITS, Vizag
- Dept. Co-Ordinator for e-BITZ Newsletter at BITS, Vizag
- Organized and coordinated Workshops, Seminars and Technical events

Reviewer for International Journals
- PLOS ONE

Member in:
- IRED (Institute of Research Engineers and Doctors) (Reg. No: AM101000581950)
- IAENG (International Association of Engineers) (Reg no: 196780)
- ISRD (International Society For Research And Development) (Reg no: M4150905880)