

RESUME

Dr. Rajesh Gogineni
DEAN (Academics)
Professor in ECE
Dhanekula Institute of Engineering & Technology
Ganguru, Krishna, A.P -521139



Career Objective:

To impart quality education with emphasis on Electronics and Communication Engineering as having a strong record in research, teaching and administration. Committed to extend my full attention and expertise to drive the students in achieving their academic and professional goals.

Research Interests:

Image Processing for Remote sensing and Medical Applications, Atmospheric Sciences, Weather and Climate Science, Machine Learning for Image Processing.

Academic Qualifications:

- **Ph.D.** – (Image Fusion for Remote Sensing Applications) National Institute of Technology Karnataka, Surathkal (NITK) From 2015- 2020.
- **M.Tech** – (Communications and Signal Processing) VR Siddhartha Engineering College in 2010. **(9.03(CGPA) – First Class with distinction).**
- **B. Tech** – (ECE) Sri Sarathi Institute of Engineering and Technology, Nuzvid, A.P. from 1998-2002. **(74.39%– First Class with distinction).**
- **Intermediate** – (MPC) Sri Pratibha Junior college, Ongole From 1995-1997. **(83% - First Class).**
- **SSC** - ZP High School, NG Padu, A.P. in 1995 **(78% First Class).**

Professional Experience:

- 22 years of experience in Teaching and Research together in various Academic Institutions.
- Promoted as DEAN- Academics: Dhanekula Institute of engineering and Technology from December 2024 Onwards
- Working as Professor, ECE in Dhanekula Institute of Engineering & Technology, Vijayawada from 06 Feb 2024 to till date.

- Worked as Associate Professor, ECE in Dhanekula Institute of Engineering & Technology, Vijayawada from May 2021 to Feb 2024.
- Worked as Associate Professor in Chalapathi Institute of Technology from Jun 2020 to May 2021.
- Worked as Research Scholar in NITK, Surathkal from July 2015 to Jun 2020.
- Worked as Associate Professor in PACE Institute of Technology and Sciences, Ongole from Sep 2012 to Jul 2015.
- Worked as Assistant Professor in Andhra Loyola Institute of Engineering and Technology, Vijayawada from Jul 2009 to Sep 2012.
- Worked as Assistant Professor in QIS College of Engineering and Technology, Ongole from Jul 2002 to Apr 2009.

Subjects Expertise:

Electronic Devices & Circuits	Digital Image Processing
Probability theory & Stochastic Processes	Network Analysis
Signal and systems	Control Systems
Digital Communications	Analog Communications
Optical communications	Cellular Mobile Communications
Switching Theory & Logic design	Signal Processing

Responsibilities handled:

- **Dean – Academics: DIET**
- R & D Coordinator and IIC President in DIET, Ganguru
- NAAC Coordinator in CITY, Guntur
- I/C HOD in PACE ITS, Ongole.

Research Publications:

Journal Papers

1. Gogineni R, Chaturvedi A. Sparsity inspired pan-sharpening technique using multi-scale learned dictionary. ISPRS journal of photogrammetry and remote sensing. 2018 Dec 1; 146:360-72. **Elsevier (SCI)**
2. Gogineni R, Chaturvedi A. A Robust Pan-sharpening Algorithm Based on Convolutional Sparse Coding for Spatial Enhancement. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing. 2019 Nov 1; 12(10): 4024-37. **IEEE (SCI)**

3. Gogineni R, Chaturvedi A, BS DS. A variational pan-sharpening algorithm to enhance the spectral and spatial details. International Journal of Image and Data Fusion. 2020 Nov 4:1-23... **T&F, (SCIE)**
4. Sangani DJ, Thakker RA, Panchal SD, Gogineni R. Pan-Sharpener for Spectral Details Preservation via Convolutional Sparse Coding in Non-Subsampled Shearlet Space. International Journal of Image and Graphics. 2021 Dec 22:2350013. **(ESCI)**
5. Gogineni R, Sangani DJ. A two-stage PAN-sharpening algorithm based on sparse representation for spectral distortion reduction. International Journal of Image and Graphics. 2022 Jan 22; 22(01):2250007. **(ESCI)**.
6. Sangani DJ, Thakker RA, Panchal SD, Gogineni R. Pansharpening of Satellite Images with Convolutional Sparse Coding and Adaptive PCNN- Based Approach. Journal of the Indian Society of Remote Sensing. 2021 Dec; 49(12):2989-3004. **(ESCI)**.
7. Umakanth N, Kalyan SS, Satyanarayana GC, Gogineni R, Nagarjuna A, Naveen R, Rao KR, and Rao MC. Increasing pre-monsoon rain days over four stations of Kerala, India. Acta Geophysica. 2022 Apr; 70(2):963-78. **(SCI)**
8. Akhila Rayini, Rajesh Gogineni "An effective GDI (Gate Diffusion Input) Based 16- bit Shift Register Design for Power and Area Optimization" International Journal for Research in Applied Science and Engineering Technology (2022), Mar: 10(3): 1030-1036.
9. Gogineni R, Darisi GK. A Competent Convolutional Sparse Representation Model for Pan-Sharpener Of Multi-Spectral Images. Journal of advanced applied scientific research. 2022 Apr 7; 4(1). **(Scopus)**
- 10.MCR Rajesh Gogineni, Y. RamaKrishna, N. Umakanth, P. L. Madhava Rao, Impact of Meteorological related parameters on rice production over Krishna District, Andhra Pradesh, METSZET 7 (12),2023, 346-357. **(Scopus)**
- 11.Rajesh G, Babu SC. An efficient and reliable algorithm for the RWA problem in optical WDM networks. International Journal of Engineering Research & Technology. 2012 Sep; 1(7):1-3.
- 12.Sangani DJ, Thakker RA, Panchal SD, Gogineni R. Remote Sensing Pansharpening with TV-H– 1 Decomposition and PSO-Based Adaptive Weighting Method. International Journal of Image and Graphics. 2023 Jul 25:2450061. **(SCIE)**.

13. Gogineni, R., Umakanth, N., Ramakrishna, Y. *et al.* Assessment of daily concentrations of air pollutants over four stations of Andhra Pradesh, India, during 2019–2022. *Acta Geophys.* (2023). <https://doi.org/10.1007/s11600-023-01155-9> (SCI).
14. Ahammad SH, Gogineni R, Vishnu TR, Umakanth N, Rao MC, RamaKrishna Y. Fluctuations of heavy rainfall association parameters over Bihar, India. *Journal of Survey in Fisheries Sciences.* 2023 Jan 1:1703-12.
15. Rajesh Gogineni et.al., A machine learning approach for early detection of chronic kidney diseases, *Journal of nonlinear analysis and optimization* Apr 2024
16. Umakanth N, Kumar PV, Biswasharma R, Gogineni R, Ahammad SH, Rao MC. Association of Mesoscale Features With Tropical Cyclone Tauktae. *Thalassas: An International Journal of Marine Sciences.* 2024 Jul 4:1-23.
17. Umakanth, N., Biswasharma, R., Gogineni, R. *et al.* Relationship between TTI and Various Thunderstorm Related Parameters over Kerala, India. *Pure Appl. Geophys.* (2024). <https://doi.org/10.1007/s00024-024-03617-7>.
18. Umakanth N, Gogineni R, Rao KM, Reddy BR, Ahammad SH, Rao MC. Spatial Analysis of Tropical Cyclone Yaas using Satellite Data. *Malaysian Journal of Science.* 2024 Dec 31:54-67.
19. Sushma T, Gogineni R, Ratnam NV, Babu SR, Mandava S, Kanth PV. A Miniaturized Quad Port Highly Isolated Triple Band Notched UWB-MIMO Diversity Antenna.
20. Khaleelahmed SK, Sivakrishna K, Rajesh G, Durgarao N, Venkateswarlu C. A Deep Learning With Optimization-Based Power Allocation for Network Slicing in MIMO–NOMA. *International Journal of Communication Systems.* 2025 May 10;38(7):e70062.

Conference Papers

1. Rajesh Gogineni, Dhara J sanghani a variational directed pan-sharpening approach using convolutional type generalized variation and a vectorial Euclidean norm. Middle East international conference on contemporary scientific studies-vi Saint Joseph University of Beirut, Faculty of Educational Sciences/ Beirut, Lebanon Sep 20-22, 2021.
2. Rajesh Gogineni, Y Ramakrishna, P Veeraswamy, J Chaitanya “Pan-sharpening of Multispectral Images Through the Inverse Problem Model With Non-convex Sparse Regularization” Robotics, Control, Automation and Artificial Intelligence (RCAAI- 2022) 24 - 26 November 2022. (International Conference – Scopus).

Book Chapters

1. Gogineni R, Chaturvedi A. Hyperspectral Image Classification. In *Processing and analysis of hyperspectral data*, 2019 Dec 13, Intech Open.

2. Rajesh Gogineni, Ashvini Chaturvedi Convolutional Neural Networks for Medical Image Analysis. , Convolutional Neural Networks for Medical Image Processing applications, Nov 2022, CRC Press.

Text Books:

1. Dr. RAJESH GOGINENI Dr. V. SURESH KUMAR Dr. RAJESH KANUGANTI Mr. J. JAGAN BABU. (2024). Signals and Systems (Version 1) [Computer software]. DECCAN INTERNATIONAL ACADEMIC PUBLISHERS.
<https://doi.org/10.5281/zenodo.11369395>.
2. Dr. Rajesh Gogineni et.al, (2024) **Electronic Devices and Circuits**, GCS publishers.
3. Dr. Rajesh Gogineni et.al, (2024), **Digital Image Processing**, Deccan International Publishers.

Workshops Organized

1. Organized a six-day Faculty development program “Hands-on Deep Learning Architectures for Data classification using Python” from 26-09-22 to 1-10- 22.

Achievements/ Awards etc.

1. Best paper Award 2021 by Indian Society of Remote Sensing (ISRS) for the Publication titled” Pan-sharpening of Satellite Images with Convolutional Sparse Coding and adaptive PCNN based Approach.”
2. Best Poster Award - 4th international Conference on Frontiers in computer & Electronics Engineering and Nano Technology (ICF-CEET2021.)
3. Book Chapter - Hyperspectral Image Classification. In Processing and Analysis of hyperspectral data crossed 1000 downloads.

Additional Information:

Reviewer for

- ✓ Journal of Indian Society of Remote Sensing
- ✓ Remote Sensing Letters
- ✓ International Journal of Applied Earth Observation and Geo information
- ✓ Journal of Geological Research
- ✓ ISPRS Journal of Photogrammetry and Remote sensing

Professional Memberships:

- ✓ ISPRS
- ✓ Association of Agro meteorologists
- ✓ International Association of Engineers (IAENG)
- ✓ CSTA

Personal Profile

Name : Rajesh Gogineni
Father Name : Hanumantha Rao Gogineni
DOB : 05-05-1980
Marital Status : Married
Languages Known : Telugu, English and Hindi
Religion/Nationality: Hindu/ Indian

Communication Details

A-109, PVR ICON, Sri Sakti Kalyana Mandapam Road, SER Center, Prasadampadu,
Vijayawada -521108.

I hereby declare that the information furnished by me is correct and proved to be true to the best of my knowledge and belief.

Date: 19-04-2025

Vijayawada



Signature