



Dr. G.Madhavi

Assistant Professor



Education Qualifications: Doctor of Philosophy (ECE)
Specialization: Image and Video Processing

ADDRESS:

- C – Block -Room No C-206

JNTUH ID:

44150406-191733

EMAIL:

gmadhavi_ece@mgit.ac.in

DATE OF JOINING:

02-09-2004

EXPERIENCE - 21 Years

- Teaching -21
- Research -
- Industry -
- Others –

SUMMARY:

- Publications - 12
- Conferences - 3
- Patents – 1
- Books –
- Honors/Awards -

EVENTS:

- Organized - 5
- Attended - 43

LET'S MEET ON SOCIAL:

- <https://www.facebook.com/mgithyderabad>
- <https://www.instagram.com/mgithyderabad>
- <https://www.linkedin.com/company/mgithyderabad>
- [https://twitter.com/MGITHyderabad](https://twitter.com/MGIThyderabad)

Membership of Professional Bodies:

1. Fellow member IETE

Responsibilities Held at Institution Level:

1. Member in the Anti Ragging Committee
2. Member in the Grievance cell
3. Member in the women's welfare cell for three years.

Responsibilities Held at Department Level:

1. Academic council member in the Dept of ECE.
2. Advisory Committee Member in the Dept. of ECE
3. One of the In-charge for NBA work at department level.
4. Convener for the Women's welfare cell in the Dept of ECE.
5. Over all Batch in charge
6. Coordinator for Events committee in Microcosm
7. Project coordinator
8. Technical Seminar Coordinator
9. One of the panel judges for comprehensive viva-voce
10. Over all batch in-charge for three year students
11. One of the Co-conveners for Nirvana
12. One of the members in the organizing committee Microcosm technical fest

Courses Handled at Under Graduate /Post Graduate Level:

UG: Microwave Engineering, Microwave and optical communications, Switching Theory and Logic Design, Linear IC Applications, Linear and Digital IC Applications, Pulse and Digital circuits, Network Analysis.

Publications:

1. Madhavi Gajula, Dr. A. Jhansi Rani and Dr.Srinivasa Rao.S "Pest Detection for Rice Using Artificial Intelligence" *International Research Journal on Advanced Science Hub, 2021*, Volume 3, Issue Special Issue ICITCA-2021 5S, Pages 54-60
2. Madhavi Gajula "Implementation of Wavelet and Curve let Transform for Image Fusion" *Journal Of Science and Technology*, ISSN 2456-5660, Vol.5, Issue.4, pp 361-365, July-August 2020
3. Dr.Srinivasa Rao.S and Madhavi Gajula "Hybrid Particle Swarm Optimization for Generation of Sequences with Good Correlation Properties" *IJCRT*, ISSN 2320-2882, Vol.9, Issue.6, pp e897-ee901 June 2021.
4. Madhavi Gajula "Study of Signal Image Processing by Implementing a Secure Software of Nonlinear Advanced Encryption Standard" *Journal Of Science and Technology*, ISSN 2456-5660, Vol.6, Issue.2, pp 118-122, march-April 2021

**ADDRESS:**

- C – Block -Room No C-206

JNTUH ID:**44150406-191733****EMAIL:****gmadhavi_ece@mgit.ac.in****DATE OF JOINING:****02-09-2004****EXPERIENCE - 21 Years**

- Teaching -21
- Research -
- Industry -
- Others –

SUMMARY:

- Publications - 12
- Conferences - 3
- Patents – 1
- Books –
- Honors/Awards -

EVENTS:

- Organized - 5
- Attended - 43

LET'S MEET ON SOCIAL:

- <https://www.facebook.com/mgithyderabad>
- <https://www.instagram.com/mgithyderabad>
- <https://www.linkedin.com/company/mgithyderabad>
- https://twitter.com/MGIT_hyderabad

5. Dr.D. Naga Jyothi, Madhavi Gajula et al “Design, Development and Implementation of Quadcopter an Embedded System for Digital Signal Processing and Wireless Communication Applications” Turkish Journal of Physiotherapy and Rehabilitation, ISSN 2651-4451, Vol.32, Issue.3, pp 3901-3912, 2021
6. B.Suneetha, A.Jhansi Rani, M.PadmaJa and G.Madhavi, “Brain tumour image classification using improved convolution neural networks”. Applied Nanoscience, Springer, 18 June 2021
7. Madhavi Gajula and Dr. A. Jhansi Rani “Object Tracking using Orthogonal learning particle Swarm optimization” IJAER, ISSN 0973-4562; Vol.13 pp 252-261, 2018 .(Scopus Indexed)
8. Madhavi Gajula and Dr. A. Jhansi Rani “Object Detection and tracking using Kalman filter and Genetic Algorithm” ISSN 2249-7455 Vol.8 Issue X Oct-2018, pp 1557-1561(UGC Referred)
9. Madhavi Gajula and Dr.A. Jhansi Rani “An Efficient Object Detection and Tracking System based on Immune Genetic Algorithm” RJAS - Medwell Journal, ISSN: 1815-932X; Vol.14, Issue 1, pp7-15, 2019 (Scopus Indexed).
10. Madhavi Gajula and Dr. A. Jhansi Rani “Orthogonal Local Preserving Projection Based Pedestrian Detection and Tracking Using Hybrid Features and Support Vector Machine” IJRECE Vol.6 Issue 4(October – December 2018) ISSN: 2393-9028, pp 1116-1125 (UGC Referred)
11. P.Raju and G.Madhavi “ Implementation of Secure Digital Video Watermarking Using Multiscale Decomposition and Singular Value Decomposition “International journal of Scientific Engineering and Technology research, ISSN 2319-8885 Vol.03,Issue.46 Dec-2014, pp 9322-9325
12. Madhavi Gajula, Dr.A.Jhansi Rani “Neuro-Registration Technique on Medical Image Diagnosis” International Journal of Emerging Technology and Advanced Engineering Website: www.ijetae.com (ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 3, Issue 3, March 2013) 962

Conferences:

1. Madhavi Gajula and Dr. A. Jhansi Rani “Histogram of Oriented Gradients with Kalman Filter approach for object Detection and Tracking” WRFER International Conference on Research in Science, Engineering and Technology (ICRSET), Hyderabad, 8th March, 2020
2. Madhavi Gajula, Dr .A. JhansiRani “An Efficient data mining tool for Medical Image Diagnosis using soft computing technique” International conference on Navigational systems & signal processing.(NSSP-2013).13th & 14th Dec.
3. S. Srinivasa Rao, Dr.P.Siddiah and Madhavi Gajula, "Generation of Sequences with Good Correlation properties using PSO", ICIECE-2013, Gurunanak Institute of Technology, Hyderabad, 9th& 10th August, 2013.

Patents:

1. A System And Method for Cleaning And Sanitizing large utensils using ML Interface

**ADDRESS:**

- C – Block -Room No C-206

JNTUH ID:

44150406-191733

EMAIL:

gmadhavi_ece@mgit.ac.in

DATE OF JOINING:

02-09-2004

EXPERIENCE - 21 Years

- Teaching -21
- Research -
- Industry -
- Others –

SUMMARY:

- Publications - 12
- Conferences - 3
- Patents – 1
- Books –
- Honors/Awards -

EVENTS:

- Organized - 5
- Attended - 43

LET'S MEET ON SOCIAL:

- <https://www.facebook.com/mgithyderabad>
- <https://www.instagram.com/mgithyderabad>
- <https://www.linkedin.com/company/mgithyderabad>
- [https://twitter.com/MGITHyderabad](https://twitter.com/MGIThyderabad)

Events Organized:**Conferences:**

Organizing committee member and one of the reviewer for the "ICASPACE-21" International conference organized by Dept of ECE, MGIT From June 29th to 31st July 2021.

FDPs/STTPs:

One-week FDP on "RF Antenna Design" from 19-06-2017 to 24-06-2017 organized by dept of ECE in association with NIT Warangal.

Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:

"One week online Webinar Series" conducted by Dept. of ECE, MGIT, Hyderabad, 20th -25th July' 2020

Events Attended**FDPs/STTPs:**

1. FDP on Research areas in Biomedical Signal processing.
2. Research Avenues in Machine Learning approaches for pattern recognition
3. Simulation and Modeling of Data communication and Networks
4. R-Programming for beginners
5. Machine Learning using Python
6. Future Nano Electronic Devices & Circuits
7. Yoga - A Science of Breath and Meditation for Subtle Energy Channeling
8. Recent trends in IC design
9. Image processing and machine learning
10. AI-MIMO
11. Research Avenues in Machine Learning approaches for Pattern Recognition

Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lecture:

1. 1st Indian work shop on Artificial Intelligence
2. Wind Energy Power Conversion
3. Advances in Wireless Communication Technologies
4. Internet of things
5. Recent Trends in Image and Video Processing
6. Research Trends in Digital Image & Video Processing.
7. RF Antenna Design
8. Digital Image and Video processing
9. Innovative Methods in Teaching and Research.
10. Socio effectiveness of Women-WOW Factor
11. Real Time Signal Processing.
12. Speech processing and its Applications.
13. Image processing and its Applications .A Decision support system. (AICTE Sponsored SDP)
14. Image processing
15. 15 days software Industry oriented summer camp
16. MATLAB in Engineering and Science
17. System Design using FPGA
18. Mission 10X FDP
19. Smart Antennas
20. Recent trends in Microwave Engineering
21. RF-Optical Co-design for High Speed Applications



ADDRESS:

- C – Block -Room No C-206

JNTUH ID:

44150406-191733

EMAIL:

gmadhavi_ece@mgit.ac.in

DATE OF JOINING:

02-09-2004

EXPERIENCE - 21 Years

- Teaching -21
- Research -
- Industry -
- Others –

SUMMARY:

- Publications - 12
- Conferences - 3
- Patents – 1
- Books –
- Honors/Awards -

EVENTS:

- Organized - 5
- Attended - 43

LET'S MEETON SOCIAL:

- <https://www.facebook.com/mgithyderabad>
- <https://www.instagram.com/mgithyderabad>
- <https://www.linkedin.com/company/mgithyderabad>
- https://twitter.com/MGIT_hyderabad

Online Certifications:

Coursera certificates.

- 1.Basic Image Classification with Tensor Flow
- 2.Image Compression with K-Means Clustering
- 3.Generate Synthetic Images with DCGANs Keras
- 4.Spread sheets for Beginners using Google Sheets

NPTEL Online certification course.

1. Digital Image processing
2. Microwave Engineering
3. Analog Circuits.
4. An Introduction to artificial Intelligence
5. Deep learning

Any Other Contribution:

- 1.Guided 30 B.Tech Projects
2. Guided 5 M.Tech Projects
3. Counseling the students time to time
4. Addressed the girl students Grievances