Dr. Y. Praveen Kumar Reddy
Assistant Professor

Education Qualifications: Doctor of Philosophy (Electrical Engineering)
Specialization: Image Processing

ADDRESS:
Block-C, Room # 304.

JNTUH ID:
6299-180702-185128

EMAIL:
ypkumarreddy_ece@mgit.ac.in

DATE OF JOINING:
01-08-2018

EXPERIENCE - 11 Years
- Teaching - 11
- Research - 4
- Industry – 6 months

SUMMARY:
- Publications - 4
- Conferences - 2
- Honors/Awards - 1

EVENTS:
- Organized - 07
- Attended - 29

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Membership of Professional Bodies:
1. Fellow, IETE: F-502890.
2. Member, IEEE: 92226937 (2010-18)
3. Life Member, ISTE: LM-81369

Responsibilities Held at Institution Level:
1. BoS member (Autonomous)

Responsibilities Held at Department Level:
1. Member, NAAC, IQAC, and Autonomous committees.
2. Co-convenor, ICASPACE-21; Coordinator, AICTE STTPs, FDPs; Resource person in FDPs & STTPs.
3. PG coordinator.
4. Class teacher, mentor and counsellor for UG (25 students) and PG students.
5. DRC member for PG mini and major projects.
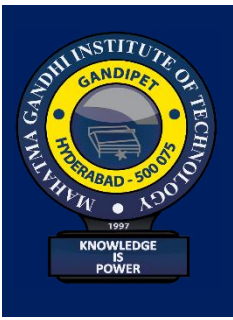6. Project coordinator for UG students.

Honors/Awards Received:
1. Best technical paper award in the International Conference on Computational Biology-2017, San Francisco, USA.

Courses Handled at Under Graduate /Post Graduate Level:
- **UG:** Electromagnetic Fields and Waves, Microprocessors and Microcontrollers, Signals and Systems, Probability Theory and Stochastic Processes, Digital System Design.
- **PG:** Design of Fault Tolerant Systems, Broadband Communications.

Publications:
1. **P. K. R. Yelampalli**, " Local Euclidean pattern: a low-dimensional feature descriptor for nonrigid registration of chest HRCT images," *Pattern Recognition,* vol. xx, no. xx, pp. xxxx—xxxx. **(Accepted with minor revisions)**
2. **P. K. R. Yelampalli**, J. Nayak and V. H. Gaidhane, "Medical image rigid registration using a novel binary feature descriptor and modified affine transform," *IET Image Processing,* vol. 12, no. 3, pp. 337—344, 2018.
3. **P. K. R. Yelampalli**, J. Nayak and V. H. Gaidhane, "A novel binary feature descriptor to discriminate normal and abnormal chest CT images using dissimilarity measures," *Pattern Analysis and Applications,* vol. 22, no. 4, pp. 1517—1526, 2019.
4. **P. K. R. Yelampalli**, J. Nayak and V. H. Gaidhane, "Daubechies wavelet-based local feature descriptor for multimodal medical image registration," IET Image Processing, vol. 12, no. 10, pp. 1692—1704, 2018.

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Conferences:

1. **P. K. R. Yelampalli** and J. Nayak, "Local diagonal Laplacian pattern a new MR and CT image feature descriptor," in Progress in Advanced Computing and Intelligent Engineering (K. Saeed, N. Chaki, B. Pati, S. Bakshi, and D. P. Mohapatra, eds.), vol.1, pp. 69–78, Springer, Singapore 2018.

2. **P. K. R. Yelampalli**, J. Nayak and V. H. Gaidhane, "Blood vessel segmentation and classification of diabetic retinopathy images using gradient operator and statistical analysis," in *Lecture Notes in Engineering and Computer Science: Proceedings of The World Congress on Engineering and Computer Science*, vol. 2, pp. 525–529, San Francisco, USA, 2017. (**Selected as the Best Paper at ICCB-2017**)

Events Organized:

Conferences:

1. International Conference on Advances in Signal Processing and Communication Engineering (ICASPACE-2021)

FDPs/STTPs:

1. Two-Day Faculty Development Programme on Contemporary Research Methodology on 07 & 08 September 2021.

2. AICTE Sponsored Online Short-Term Training Program (STTP) on Research Avenues in Machine Learning Approaches for Pattern Recognition from 21 – 26 Sept 2020.

3. AICTE Sponsored Online Short-Term Training Program (STTP) on Research Avenues in Machine Learning Approaches for Pattern Recognition from 24 – 29 Aug 2020.

4. One Week Online FDP on "Simulation and Modeling of Data Communications & Networks" from 27 – 31 July 2020.

5. Two-Day Online FDP on Effective Technical Report Writing Using LaTeX® from 08 – 09 June 2020.
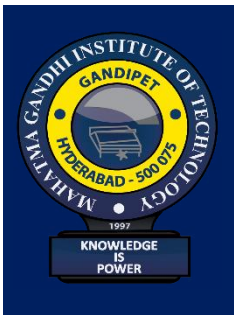
Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:

1. One Week Online Webinar Series from 20 – 25 July 2020.

2. Invited Online Lecture at AICTE Sponsored STTP on the topic "Medical Image Processing & It's Applications in Automated Disease Detection" at St. Martin's Engineering College.

3. Invited Online Lecture at AICTE Sponsored STTP on "Medical Image Processing & It's Applications in Automated Disease Detection" at St. Martin's Engineering College.

4. Guest Lecture in FDP on "Research Trends in Image Processing with Machine Learning and Deep Learning," at G. Pulla Reddy Engineering College.

5. Invited lecture on 'Digital Image Processing and Applications' at Santhiram Engineering College, on 12 Feb 2018.

Events Attended

FDPs/STTPs:

1. One Week Short-Term Training Program (STTP) on Pattern Recognition: Theory & Applications from 21 – 25 March 2022.

2. International Faculty Development Program-cum-Workshop "Research Grant Proposal Writing Strategies to Win Research Funding up to 1 Crore."

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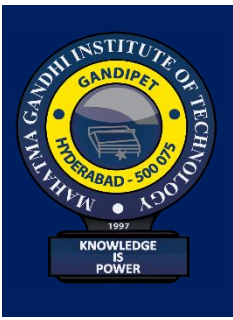LET'S MEET ON SOCIAL:
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3. AICTE Training And Learning (ATAL) Academy Online FDP on "Recent Trends and Future Opportunities on Deep Learning" from 21 – 25 September 2020, Central University of Rajasthan.

4. Online Faculty Development Programme (FDP) on "Machine Learning and its Applications with Python" from 13 –22 Dec 2021, E & ICT Academy, NIT Warangal.

5. Five Days International Faculty Development Programme (online) on "Next Generation Semiconductor Devices: Modeling and Simulation" from 04 – 08 Aug 2020, KL University.

6. Six Days International Online Faculty Development Program on "Perspectives of Artificial Intelligent Applications" from 27 July – 01 Aug 2020.

7. One Week Online Short-Term Training Programme on "Optimization Techniques Through Machine Learning for IoT" from 27 July – 01 Aug 2020.

8. One Week Online Faculty Development Programme on "Emerging Trends in Information technology" from 20 – 25 July 2020.

9. One Week Online Short-Term Training Programme on "Optimization Techniques Through Machine Learning for IoT" from 13 – 18 July 2020.

10. One Week Online Faculty Development Programme on "Future Nano Electronic Devices & Circuits" from 06 – 10 July 2020.

11. One Week Online Faculty Development Programme on "Research Opportunities in Image Processing and Machine Learning" 29 June – 03 July 2020.

12. One Week Online Faculty Development Programme on "Recent Trends in Computer Architecture, VLSI and Embedded Systems" from 08 – 13 June 2020.

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

1. Two Days Online Workshop on "Free and Open Source Alternative for Web Conferencing and Teaching Learning," 15 & 16 July 2020.

2. Webinar on "Antennas in Biomedical Applications and MIMO Technology" on 24 June 2020.

3. Online Workshop on "Social Responsibility and Community Engagement" on 17 June 2020.

4. Webinar on "Analog VLSI Design Flow" on 07 June 2020.

5. Two Days Workshop on "Industrial Applications of Decision Making Methods and Optimization" from 17 – 18 Nov 2017.

6. National Level Workshop on "Paper-Presentation Awareness and Research Methodology" on 26 June 2011, IIIT Hyderabad.

7. Workshop on "Embedded System Design with 89C51 Microcontroller" on 28 June 2008.

8. One Week Workshop on "Full-Custom and Semi-Custom VLSI Design Using Microwind®".

Online Certifications:

1. A Short Course on "Learn to Design Your Own Solar Home System" on 24 June 2020, by Energy Literacy Drive of the Energy Swaraj Foundation.

2. Course on Program for Everybody (Getting Started with Python).

3. Course on Neural Networks and Deep Learning.

4. Project on Clustering Geolocation Data Intelligently in Python.

5. Course on Image and Video Processing.

Any Other Contribution:

1. Primary Evaluator of Toycathon-2021, Government of India.
2. Participated in Smart India Hackathon-2019, Government of India.
3. Review articles for IEEE, IET, Wiley, and Springer in Pattern Recognition, Machine Learning, Image Processing domains.
4. Reviewed articles for International Conferences.
5. Qualified FET-2013.

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