



Ms. M. Tirupathamma

M.Tech. (Ph.D)

Associate Professor

MISTE, MIE

Electronics & Communication Engineering

Areas of Interest:

Signal processing, image processing, video processing, Machine Learning

- ▶ Educational & Professional

- ▶ Academic Qualifications

- ▶ M.Tech in Digital systems and computer Electronics, JNTUH with First (2006-2009)

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B.Tech in Electronics and communication Engineering, GNITS/ JNTUH with First class (2001-2005)

▶ Professional Experience

- ▶ Teaching Experience

- ▶ Assistant Professor, Vidya Jyothi Institute of Technology (2006-07-04 - 2010-06-10)

- ▶ At JNTUH

- ▶ Assistant Professor, JNTUH (2010 - Till Date)

- ▶ Publications

- International Journals

- ▶ Tirupathamma Mudavth, Anooja M, *Object detection challenges: Navigating through varied weather conditions*”A comprehensive survey, Journal of Ambient Intelligence and Humanized Computing,, Vol No. Volume 16, pp.443-457, Springer Berlin Heidelberg- Scopus, February , 2025
- ▶ Tirupathamma Mudavth, Vandana Niranjana, *Person detection in thermal images using kurtosis based histogram enhancement and YOLOv8*, Earth Science Informatics, Vol No.18, Issue No.2, pp.381, Springer Berlin Heidelberg-SCIE, IF- 2.9, April , 2025
- ▶ Tirupathamma Mudavath, Vandana Niranjana, *Thermal image enhancement for adverse weather scenarios: a wavelet transform and histogram clipping approach*, Signal, Image and Video processing, Vol No.18, Springer - SCIE-IF 2.0, July , 2024
- ▶ M.Tirupathamma, *PRINCIPLES AND APPLICATIONS OF INFRARED THERMAL IMAGING*, Telecommunications and Radio Engineering , ISBN No.0040-2508(p) 1943-6009(o) , Vol No.79, Issue No.13, pp.1177-1187, begell house, June , 2020
- ▶ M.Tirupathamma, *A Frame Work for Biometric Recognition Using Iris Data in Hand Vein Images*, RESEARCH REVIEW International Journal of Multidisciplinary, ISBN No.2455-3085 , Vol No.4, Issue No.2, pp.1769-1774, February , 2019
- ▶ Velupula Mounika, M.Tirupathamma, *Implementation Of Road Detection And Segmentation From Aerial Image By Using CNN*”, Journal Of Engineering Sciences (JES), ISBN No.0377-9254, Vol No.10, Issue No.12, December , 2019
- ▶ S.Swathi, M.Tirupathamma, *Implementation of Haze Removal In a Image Using Globally Guided Image Filtering*”, Journal of Science and Technology , ISBN No.2456-5660 , Vol No.4, Issue No.6, Nov-December , 2019
- ▶ M.Tirupathamma, *A Study And Performance Evaluation Of Watermarking Techniques*, International Journal Of Core Engineering & Management, ISBN No.2348-9510, Vol No.4, Issue No.2, May, 2017
- ▶ M.Tirupathamma, *Moving object detection in a surveillance video*, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, ISBN No. 2278 “ 8875, Vol No.6, Issue No.4, April, 2017
- ▶ M.Tirupathamma, *Key frame based video summarization using frame difference*, International Journal of Innovative Computer Science & Engineering , Vol No.4, Issue No.3, june, 2017
- ▶ M.Tirupathamma, *Image Fusion Based on Transform Domain Techniques*, International Journal of Engineering Technology and Computer Research, Vol No.5, Issue No.3, May-June, 2017
- ▶ M.Tirupathamma, Thota vinod raja, *Object Detection and Tracking in video using Kalman Filter*Volume 5 issue 5 October 2016, International Journal of Research In Advanced Engineering Technologies , Vol No.5, Issue No.5, october, 2016

International Conference

- ▶ M.Tirupathamma, *Thermal image enhancement using kurtosis based clipping histogram method*, 2021 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), pp.291-296, IEEE, August, 2021
- ▶ M. Ravinder, M.Tirupathamma, *A Novel Content-Based Image Indexing and Retrieval Framework Using Clockwise Local Difference Binary Pattern (CWLDBP)*, International Conference On Artificial Intelligence And Evolutionary Computations In Engineering Systems and Advances in Intelligent Systems and Computing(Springer Publications), ICAIECES 2015
- ▶ **Events Participated/Organized**

Organized

- ▶ Organized a Workshop on National work shop on Image Processing and its applications, JNTUH college of Engineering , jagital, 20-01-2016 to
- ▶ Organized a Conference on Two day National conference on "Perspectives of women in multi disciplinary areas(POWMA)", JNTUHEJ, 10-03-2015 to 11-03-2015
- ▶ Organized a Symposium on Two day national technical symposium EMBLAZON™13, JNTUHCEJ, 02-04-2013 to 03-04-2013

Participated

- ▶ Participated in a Workshop on *Two Week Online Workshop on "Comprehensive e-Learning to e-Training guide for Administrative Work"* from organized by Teaching Learning centre, Ramanujan college, university of Delhi and also sponsored by MHRD under PMMMNMTT scheme , Govt. Of India, University of Delhi, 25-05-2020 to 06-06-2020
- ▶ Participated in a FDP on *FDP on "Machine Learning and AI using Python"* by Electronics and ICT Academy,, IIT, Roorkee, 27-04-2020 to 06-05-2020
- ▶ Participated in a Refresher Course on *Three week Refresher course in Electrical, Electronics & Communication Engineering*, UGC-HRDC University of Hyderabad, 02-02-2017 to 22-02-2017
- ▶ Participated in a FDP on *10 Days Faculty Development Program wireless communications -hands ON*, NIT Warangal, 14-12-2015 to 23-12-2015
- ▶ Participated in a Orientation Course on *28th Orientation course*, JNTUH, 21-05-2012 to 16-06-2012
- ▶ Participated in a Refresher Course on *Three week Refresher course on "Image And Video Processing Applications"*, UGC- Academic staff college , JNTU Hyderabad, 14-11-2011 to 03-12-2011

Honors & Professional Activities

Professional Activities

- ▶ 1. Life member of ISTE

- ▶ Administrative Positions Held

- ▶ Officer In charge , Examination branch, JNTUH college of Engineering Jagtial, 18 May 2017 - Present
- ▶ Deputy warden for Girls hostel, JNTUH college of Engineering Jagtial, 12 Jul 2012 - 18 May 2017

- ▶ Others

1. Attended and completed 12 week (equivalent to 1 ½ week FDP) NPTEL-AICTE Faculty Development Program on “Introduction to Internet of Things” during Jan-Apr, 2019 session.
- Attended and completed 12 week (equivalent to 1 ½ week FDP) NPTEL-AICTE Faculty Development Program on “Introduction to Machine Learning” during Jul-Oct, 2019 session.
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- Attended and completed 12 week (equivalent to 1 ½ week FDP) NPTEL-AICTE Faculty Development Program on “Digital Image Processing” during Jul-Oct, 2019 session.
- **Qualified UGC NET in June 2019**

Contact :

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