

# Dr. T. R. Vijaya Lakshmi

## Associate Professor



Education Qualifications: M.Tech., Ph. D.  
Specialization: Signal Processing

ADDRESS: C - 308

JNTUH ID: 25150330-153821

SCOPUS ID: 56480703300

ORCID: 0000-0002-1197-2935

GOOGLE SCHOLAR:

- <https://scholar.google.co.in/citations?user=9KQ-TOIAAAAJ&hl=en>

EMAIL:

- [trvijayalakshmi\\_ece@mgit.ac.in](mailto:trvijayalakshmi_ece@mgit.ac.in)

DATE OF JOINING:

05-07-2007

EXPERIENCE - 19 Years

- Teaching - 19
- Research - 4

SUMMARY:

- Publications – 20
- Conferences – 7
- Projects – 1
- Books/Monographs – 4
- Honors/Awards – 1
- Invited Talks – 19

EVENTS:

- Organized - 13
- Attended - 22

ACADEMIC SOCIAL WEBSITES:

- <https://www.researchgate.net/profile/Vijaya-Tr>
- <https://www.linkedin.com/in/dr-t-r-vijaya-lakshmi-a67470155/>

### Membership of Professional Bodies:

1. **Executive Committee Member**, Swecha.
2. **Life Member**, Institute of Engineers, (M-1711096).
3. **Life Fellow**, Institute of Electronics and Telecommunications Engineering, (F-502139).
4. **Life Member**, Indian Society for Technical Education (ISTE), New Delhi (LM118981).

### Responsibilities Held at Institution Level:

1. Internal Complaints Committee Member

### Responsibilities Held at Department Level:

1. TASK Coordinator
2. Virtual Labs Coordinator
3. DSP Lab In-charge

### Honors/Awards Received:

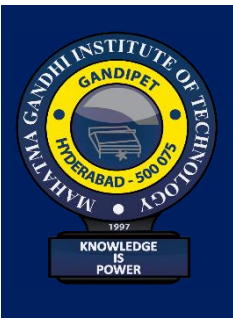
1. Received the **Best Paper Award** in the category “**Models and Algorithms**” for the paper titled “Modeling of Patterns with Spectral Data and Time-varying PSO to identify Concealed character strokes of Historical Manuscripts” in the International Conference on **Data Science and Applications** held during **10-11 April 2021**, jointly organized by **Jadavpur University, Kolkata** and **Soft Computing Research Society**.

### Research & Consultancy:

1. Project sanctioned by TEQIP-III, JNTUH on “Improving Object Visibility under atmospheric degradations of haze and fog by adopting Deep Neural Network Model” for **2.55 lakhs** during **2019-2021**.

### Courses Handled at Under Graduate /Post Graduate Level:

1. **UG:** Computer Organization and Operating Systems  
Digital Signal Processing  
Signals and Systems  
Computer Organization and Architecture  
Analog Communications  
Digital Communications  
Telecommunication Switching Systems and Networks
2. **PG:** Research Methodology & IPR  
Digital Signal Processors and Architectures



## PUBLICATIONS:

### ARTICLES INDEXED IN SCI:

1. **T R Vijaya Lakshmi**, et al., “Entropy based single image dehazing with refined transmission using holistic edges,” **Multimedia Tools and Applications, Springer**, 2022, Doi: 10.1007/s11042-022-12485-z. **(Q1) Impact factor: 2.7.**
2. **T.R.Vijaya Lakshmi**, et al., “Haze level prior approach to enhance Object Visibility under atmospheric degradation”, Turkish Journal of Electrical Engineering and Computer Sciences, **Tubitak publication, Doi: 10.3906/elk-2004-7, 2021, 29(2), pp.994-1014, ISSN no. 1300-0632, (Q3) Impact factor: 0.682.**
3. **T.R.Vijaya Lakshmi**, “Reduction of features to identify characters from degraded historical manuscripts”, *Alexandria Engineering Journal*, **Elsevier publication**, vol.57, **2018**, pp.2393-2399, ISSN no. **1110-0168, Doi: 10.1016/j.aej.2017.09.009. (Q1) Impact factor: 3.72.**
4. **T.R.Vijaya Lakshmi** et al., “Feature selection to recognize text from palm leaf manuscripts,” *Signal, Image and Video processing*, **Springer publication**, vol.12, no.2, **2018**, pp. 223-229, ISSN no. 1863-1711, **Doi: 10.1007/s11760-017-1149-9. (Q2) Impact factor: 2.15.**
5. **T.R.Vijaya Lakshmi** et al., “A novel 3D approach to recognize Telugu palm leaf text,” *International Journal of Engineering Science and Technology*, **Elsevier publication**, Vol.20, No.1, **2017**, pp. 143-150, ISSN no. **2215-0986, Doi: 10.1016/j.jestch.2016.06.006. (Q1) Impact factor: 4.36.**
6. **T.R.Vijaya Lakshmi** et al., “Modeling of palm leaf character recognition using transform based techniques,” *Pattern Recognition Letters*, **Elsevier publication**, Vol.84, Nov. **2016**, pp. 29-34, ISSN no. **0167-8655, Doi: 10.1016/j.patrec.2016.07.020. (Q1) Impact factor: 3.75.**

### ARTICLES INDEXED IN SCOPUS:

7. **T.R.Vijaya Lakshmi** et al., “Acoustic Emotion Recognition using Spectral Features,” *Soft Computing and Signal Processing*, Springer, 2021, pp. 579-586, Doi: 10.1007/978-981-33-6912-2\_52.
8. **T.R.Vijaya Lakshmi** et al., “Historical text retrieval with spectral data and adaptive variants of bacterial foraging,” *Materials Today: Proceedings*, 2020, Doi: <https://doi.org/10.1016/j.matpr.2020.10.928>, ISSN: 2214-7853.
9. **T.R.Vijaya Lakshmi** et al., “GSM based Prepaid Electricity Energy Meter,” *Sustainable Humanosphere*, Vol.16, No.2, 2020, ISSN: 1880-6503.
10. **T.R.Vijaya Lakshmi**, “Performance of Time-varying Particle Swarm Optimizer to detect cancers,” *Advances in Intelligent Soft Computing*, vol.768, pp.31-38, **2019**.
11. **T.R.Vijaya Lakshmi** et al., “Object classification using SIFT algorithm and transformation techniques,” *Advances in Intelligent Soft Computing*, vol.768, pp.403-408, **2019**.
12. **T.R.Vijaya Lakshmi**, “Two-level Gene selection to predict tumors,” *International Journal of Imaging and Robotics*, **Ceser publication**, Vol.18, no.2, **2018**, ISSN no. **2231-525x**.
13. **T.R.Vijaya Lakshmi** et al., “Telugu character recognition for degraded palm leaf documents using optimal feature selection techniques – a 3D approach,” *International Journal of Signal and Imaging Systems Engineering*, **Inderscience publication**, Vol. 10, No. 5, **2017**, ISSN no. **1748-0698**.
14. **T.R.Vijaya Lakshmi** et al., “Analysis of Telugu palm leaf characters using multi-level recognition approach,” *Journal of Applied Engineering Science*, Vol. 10, no. 20, pp. 9258–9264, **2015**, ISSN no. **1451-4117**.
15. **T.R. Vijaya Lakshmi** et al., “Hybrid approach for Telugu handwritten character recognition using k-NN and SVM classifiers,” *International Review on Computers and Software*, **Praise Worthy Prize publication**, Vol. 10, no. 9, pp. 923–929, **2015**, ISSN no. **1828-6003**.

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EXPERIENCE - 19 Years

- Teaching - 19
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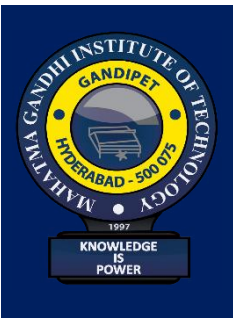
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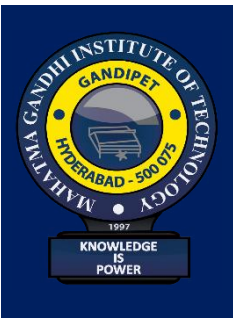
16. **T.R.Vijaya Lakshmi**, “Multistage strategy to classify handwritten characters of Telugu,” *International Journal of Current Research Review*, vol.9, no.20, **2017**, ISSN no. **2231-2196**.
17. **T.R.Vijaya Lakshmi**, “Fuzzy based Invisible watermarking,” *International Journal of Advanced Research in Computer Science*, vol.8, no.7, **2017**, ISSN no. **0976-5697**.
18. **T.R.Vijaya Lakshmi**, “Performance of fitness measures to recognize Telugu characters,” *International Journal of Advanced Research in Computer Science*, vol.8, no.7, **2017**, ISSN no. **0976-5697**.

#### ARTICLES INDEXED IN UGC:

19. **T.R.Vijaya Lakshmi**, “Recognition of Telugu characters using correlation concept,” *International Journal of Emerging Technology and Advanced Engineering*, vol.7, no.8, 2017, ISSN no. **2250-2459**.
20. **T. R. Vijaya Lakshmi**, “Object/pattern recognition and its survey,” *International Journal of Engineering Technology Science and Research*, vol.4, no.9, 2017, ISSN no. **2394-3386**.

#### CONFERENCES:

1. **T.R. Vijaya Lakshmi** et al., “Modeling of Patterns with Spectral Data and Time-Varying PSO to Identify Concealed Character Strokes of Historical Manuscripts,” *Proceedings of International Conference on Data Science and Applications*, Doi: 10.1007/978-981-16-5348-3\_37.
2. **T.R.Vijaya Lakshmi** et al., “Dehaze model to improve Object Visibility under atmospheric degradation,” *IEEE International Conference on Intelligent Sustainable Systems*, pp. 219-223, **2020**, ISBN: 978-1-7281-7088-6.
3. **T.R.Vijaya Lakshmi** et al., “Feature optimization to recognize Telugu handwritten characters by implementing DE and PSO techniques,” International conference on *Frontiers in Intelligent Computing Theory and Applications*, Lecture notes: *Advances in Intelligent Systems and Computing*, vol.516, no.2, **Springer, 2016**, pp. 397-405, ISBN no.: **978-981-10-3156-4**.
4. **T.R.Vijaya Lakshmi** et al., “A 3D Approach for Palm Leaf Character Recognition Using Histogram Computation and Distance Profile Features,” International Conference on *Frontiers in Intelligent Computing Theory and Applications*, Lecture notes: *Advances in Intelligent Systems and Computing*, vol.516, no.2, **Springer, 2016**, pp. 387-395, ISBN no.: **978-981-10-3156-4**.
5. **T.R.Vijaya Lakshmi** et al., “Analysis of Telugu Palm Leaf Character Recognition Using 3D Feature,” International Conference on *Computational Intelligence and Networks (CINE)*, Bhubaneswar, Odisha, Jan. **2015**, pp.36-41, ISSN no.: **2375-5822/15**.
6. **T.R. Vijaya Lakshmi** et al., “Telugu Handwritten Character Recognition Using Zoning Features,” International Conference on *IT Convergence and Security (ICITCS)*, Beijing, China, **2014**, pp. 1-4, ISBN no.: **978-1-4799-6541**.
7. **T.R.Vijaya Lakshmi** et al., “Recognition of isolated Telugu handwritten characters using 2D FFT,” International Conference on *Advanced Computing Methodologies (ICACM)*, GRIET, Hyderabad, **2013**, pp. 372-376, ISBN no: **9789351071495**.



## BOOKS/MONOGRAPHS PUBLISHED:

1. **T.R.Vijaya Lakshmi**, “Image Enhancement techniques and their applications,” published by LAMBERT Academic Publishing, Germany, May 2018, **ISBN no. 978-613-9-83339-9.**
2. **T.R.Vijaya Lakshmi**, “Detection and tracking of a human face from videos,” published by Scholars’ Press, Germany, March 2018, **ISBN no. 978-620-2-30871-7.**
3. **T.R.Vijaya Lakshmi**, “Identification of target objects in war filed,” published by LAMBERT Academic Publishing, Germany, Nov. 2017, **ISBN no. 978-620-2-07355-4.**
4. **T.R.Vijaya Lakshmi**, “Detection of tumors using statistical measures,” published by LAMBERT Academic Publishing, Germany, Sept. 2017, **ISBN no. 978-620-2-05285-6.**

## INVITED TALKS:

1. Delivered Expert talks on “1. Empowering Access to Research – Altmetrics; 2.Plagiarism- Dos and Don’ts”, in “**Faculty Induction Programme-9**” organized by UGC, HRDC, JNTUH during **23 May - 22 June 2022.**
2. Delivered Expert talk on “Knowledge Sharing Models” in FDP “**Research Methodology and IPR**” organized by Department of ECE, JNTUH during **22 - 25 March 2022.**
3. Delivered Expert talks on “1. Content Search Approaches for Research; 2.Plagiarism-Dos and Don’ts”, in “**Research Methodology**” course organized by UGC, HRDC, JNTUH during **24 - 31 Jan. 2022.**
4. Delivered Expert talk on “**Open Knowledge Systems**”, organized by ACE Engg. College in association with **Swecha State Conference** for Academicians and Researchers on **07 Dec. 2021.**
5. Delivered Expert talk on “Plagiarism: Types, issues and consequences, Software tools for Plagiarism check”, in “**Faculty Induction Programme-6**” organized by UGC, HRDC, JNTUH during **30 August - 08 Oct. 2021.**
6. Delivered Expert talks on “1. Empowering Access to Research- Altmetrics; 2.Plagiarism-Dos and Don’ts”, in “**Faculty Induction Programme-5**” organized by UGC, HRDC, JNTUH during **12 July - 18 Aug. 2021.**
7. Delivered Expert talks on “1. Empowering Access to Research- Altmetrics; 2.Plagiarism-Dos and Don’ts”, in “**Online Faculty Induction Programme for Research scholars**” organized by UGC, HRDC, JNTUH during **28 June - 04 August 2021.**
8. Delivered Expert talks on “1. Empowering Access to Research- Altmetrics; 2.Plagiarism-Dos and Don’ts”, in “**Faculty Induction Programme-4**” organized by UGC, HRDC, JNTUH during **10 Feb - 09 March 2021.**
9. Delivered Expert talk on “Plagiarism: Types, issues and consequences, Software tools for Plagiarism check”, in “**Faculty Induction Programme-3**” organized by UGC, HRDC, JNTUH during **02 Nov - 08 Dec 2020.**
10. Delivered Expert talk on “Plagiarism: Types, issues and consequences, Software tools for Plagiarism check”, in “**Faculty Induction Programme-2**” organized by UGC, HRDC, JNTUH during **21 Sept - 29 Oct. 2020.**
11. Delivered Expert talk on “ANN Vs CNN and CNN with Data Augmentation and Dropout”, in the **Short Term Training Program- Phase-2** “Research Avenues in Machine Learning Approaches for Pattern Recognition”, organized in MGIT sponsored by AICTE during **21 - 26 Sept. 2020.**
12. Delivered Expert talk on “CNN with Data Augmentation and Dropout using Tensorflow”, in the **Short Term Training Program- Phase-1** “Research Avenues in Machine Learning Approaches for Pattern Recognition”, organized in MGIT sponsored by AICTE during **24 - 29 August 2020.**

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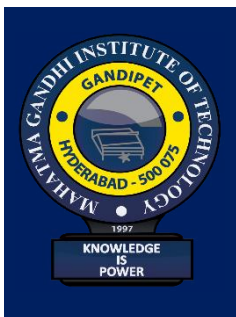
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13. Delivered Expert talk on “**FOSS Alternatives for Web Conferencing**” in a 2-Day Webinar on “E-Resources for Teaching and Learning in association with IQAC”, organized by Avanthi Group of Institutions during **12 - 13 Aug. 2020**.
14. Delivered Expert talks on “1. Content Search Approaches for Research”; 2. Plagiarism - Dos and Don'ts”, in Two-week Refresher course “**Research Methodology**” organized by UGC, HRDC, JNTUH during **14 - 26 October 2019**.
15. Delivered Expert talks on “1. Content Search Approaches for Research”; 2. Research Ethics – Plagiarism - Dos and Don'ts”, in the FDP “**Research Methodology and IPR**”, organized by UGC, JNTUH sponsored by AICTE during **05 - 09 August 2019**.
16. Delivered Expert lecture on “Knowledge Sharing - Trends in Open Access” in the FDP “**Contemporary Research and IPR**”, organized in JNTUH sponsored by TEQIP-III during **28 Jan - 01 Feb 2019**.
17. Delivered Expert lecture on “LaTeX and Beamer for Publications and Presentations” in the FDP “**Adoption of FOSS for Effective Teaching and Learning in Engineering**”, organized in CMRCET in association with Swecha during **18 - 23 June 2018**.
18. Delivered Expert lecture on “Image Transformations and its applications” in the FDP “**Research trends in Digital Image and Video Processing**”, organized in MGIT sponsored by AICTE during **04 - 16 Dec. 2017**.
19. Delivered Expert lecture on “Fuzzy Inference system and its application in Invisible Digital water marking” in the FDP “**Recent trends in Digital Image and Video Processing**”, organized by MGIT during **22 - 27 Feb. 2016**.

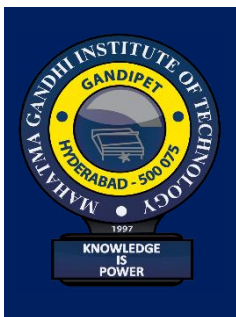
#### EVENTS ORGANIZED:

Conferences:

1. **International Conference** on “Advances in Signal Processing and Communication Engineering”, during **29 – 31 July 2021**.
2. **Swecha State Conference** for Academicians and Researchers on **28 Nov. 2021**.

FDPs/STTPs:

3. Organized **One week Virtual International Faculty Development Program** on “Smart Tools and Technologies for Academic Research” in association with Swecha, during 01 – 05 August 2022.
4. Organized a **Two-Day Faculty Development Program** on “Contemporary Research Methodology”, during 07 - 08 Sept. 2021.
5. Organized **Phase-3 STTP** sponsored by AICTE “Research Avenues in Machine Learning Approaches for Pattern Recognition”, during 02 – 07 Nov. 2020.
6. Organized **Phase-2 STTP** sponsored by AICTE “Research Avenues in Machine Learning Approaches for Pattern Recognition”, during 21 -26 Sept. 2020.
7. Organized **Phase-1 STTP** sponsored by AICTE “Research Avenues in Machine Learning Approaches for Pattern Recognition”, during 24 -29 August 2020.
8. Organized a **Two-Day Faculty Development Program** on “Effective Technical Report Writing using LaTeX”, during 08 - 09 June 2020.
9. Organized a **Two-week Faculty Development Program** sponsored by AICTE on “Research Trends in Digital Image and Video Processing” during 04 -16 Dec. 2017.
10. Organized a 2-Day Workshop on “**Data Science using Python**” during 01 - 02 Feb 2019.
11. Organized Technical symposium “**Microcosm 2019**” in March 2019.



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Webinars/ Seminars/ Guest Lecture:

12. Organized a Guest lecture on “**Artificial Intelligence**” on 07 July 2021.
13. Organized a Seminar on “**Aptitude Training and Career Guidance**” on 14 Aug. 2018 in association with Team BYJU’s.

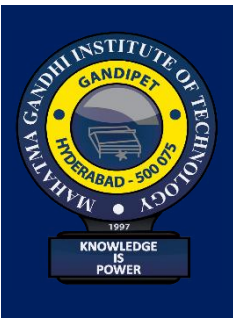
## EVENTS ATTENDED

FDPs/STTPs/Conferences:

1. International Symposium on “Recent Trends in IT”, organized by CSI-VSIT, Vidyalankar School of IT, Mumbai, from 28 Feb - 04 March 2022.
2. “Research Tools and Techniques”, organized by Dayanand Sagar College of Arts, Science and Commerce, from 27 - 29 Jan 2022.
3. Attended “Swecha State Conference for Academicians and Researchers” held on 28 Nov. 2021.
4. “Research Tools and Methodologies”, organized by Lendi Institute of Engineering and Technology, from 27 Sept. - 01 Oct. 2021.
5. “E-Shodhyatra: Emerging Trends & Technologies in Scholarly Communication”, organized by VES college of Arts, Science & Commerce; 23 Nov. - 04 Dec. 2020.
6. “Computational Techniques in Image and Signal Processing”, SLIET, Longowal, Punjab; 28 Sept. – 03 Oct. 2020.
7. ATAL FDP on “Artificial Intelligence using Python”, organized by Govt. College of Engg. And Ceramic Tech., Makaut; 14 -19 Sept. 2020.
8. “Adoption of FOSS for Effective Teaching and Learning”, organized by CMRCET from 18 - 23 June 2018.
9. “Implementation of Induction program” organized by TEQIP, JNTUH during 17-19 March 2018.
10. “Introduction to Robotics” organized by IIT Bombay, April- May 2018.
11. “Research Trends in Digital Image and video processing” organized by MGIT from 04 - 16 Dec 2016.
12. Refresher Course on “Data Mining Techniques” organized by UGC, JNTUH during 17 Oct - 05 Nov. 2016.
13. “Recent Trends in Digital Image and Video processing” organized by MGIT from 22 to 27 Feb 2016.
14. “Technical Communication” organized by IIT Bombay, 08 Oct. – 05 Dec. 2015.
15. “Image processing and its applications”, organized by MGIT from 15 - 19 Dec 2014.
16. “Research Methodology”, organized by R & D, JNTUH from 16 - 21 Dec. 2013.
17. “Orientation Programme”, organized by MANUU from 09 May - 05 June 2013.
18. “Mathematical methods for image processing”, organized by CBIT during 05 - 06 March 2013.
19. “ECAD/VLSI Design”, organized by MGIT during 06 - 08 Sept. 2012.
20. Refresher Course on “Open Collaborative Research with Emphasis on Engg.” organized by UGC, JNTUH from 02 - 23 Dec. 2011.
21. 15 days software Industry oriented summer camp, organized by Swecha and CBIT from 16 - 30 June 2010.
22. “Applications of Electronic Design Automation Tools in Chip Design”, organized by Vasavi College of Engg., during 16 - 28 Nov. 2009.

## Online Certifications:

1. “Introduction to Robotics” by IIT Bombay, MHRD.
2. Coursera Specialization on “Deep learning”, during May - June 2020.
3. Coursera Specialization on “Convolutional Neural Networks in Tensorflow”, during July – Oct 2020.
4. Udemy – “Modern Natural Language Processing”.
5. Udemy – “Support Vector Machines”.
6. NPTEL – “Machine Learning; Data analytics with Python” from Aug – Oct 2018.
7. NPTEL – “Internet of Things” from Jan – April 2019.



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### Any Other Contributions:

1. Mentored a project titled “*Digital Signature*” for the students of ECE in *Smart India Hackathon 2018* program organized by AICTE under the aegis of **MHRD**.
2. **E-content** developed beyond Curriculum:
  - “Effective Technical Report Writing using LaTeX” for Research scholars and faculty.
  - “Research Avenues in Machine Learning approaches for Pattern Recognition” for Research scholars and faculty.
  - “Digital Signal Processing using Python” for UG & PG students.
  - “Image and Speech Processing lab” for UG & PG students.
3. Participated in **MHRD** sponsored *online e-Yantra Task Based Training (Lab set up initiative) program* organized by *IIT-Bombay* during April - May 2018. Upon successful completion of the expected tasks assigned by them, awarded with a *Robotics kit (Fire Bird V)*. This kit can be utilized by the students of *ECE, CSE and Mechanical* to do their projects in *Embedded Systems lab, ECE Dept., MGIT*.