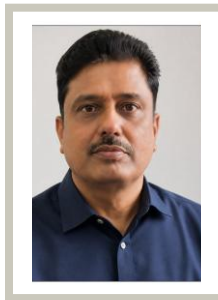


Dr. G. Jagadeeswar Reddy

Professor & Head ECE



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

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Google Scholar ID:

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EMAIL:

gjagadeeswarreddy_ece@mgit.ac.in

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- <https://scholar.google.co.in/citations?user=6VZbgFwAAAAJ&hl=en>

Membership of Professional Bodies:

- SMIEEE
- LMIETE
- LMISTE
- MIE
- MIAENG

Responsibilities Held at Institution Level:

A member in “A Strategic Academic Synergy between CBIT and MGIT” a collaborative Initiation to enhance Research output and global standing in the two Institutions.

Responsibilities Held at Department Level:

Head of the Department

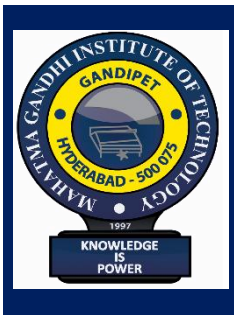
Honors/Awards Received:

- Awarded **Best paper** for the paper “Lossy Compression and Curvelet Thresholding for Image Denoising” presented at **IEEE** International Conference on Electronic Design conducted at Malaysia in the year 2008.
- Awarded First Prize in the test in DSP short term course conducted by Sri Nidhi Institute of Technology, Hyderabad in the year 2002.
- **SUN** Certified for Java Programming in the year 2000.
- **Microsoft** certified for Java Programming in the year 2022.
- **Microsoft** certified for Python Programming in the year 2022.
- **NPTEL** certified for Java Programming in the year 2023.
- **NPTEL** certified for Joy Computing Using Python the year 2023.

Experience:

Teaching/Administrative: 27+ years(14+ years as Principal)

- Ratified as Principal in the year 2012 by JNTUA for Narayana Engineering College, Nellore.
- NPTEL Certifications in 2 Computer Science Engineering Subjects.
- Exposure about: NAAC, NBA, Autonomous, NIRF.



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- <https://scholar.google.co.in/citations?user=6VZbgFwAAAAJ&hl=en>

Research Exposure:

- Ph.D Scholars Guided: 2, Guiding: 2
- Recognized Research Supervisor for Visvesvaya Technological University, Belagavi and Annamacharya University, Rajampet, A.P.
- **Rs.1 Lakh** received from **SERB, DST** for organizing National Workshop on “Rapid Prototype Design and Testing of IoT Applications using open Software and Arm Cortex Processor” at Narayana Engineering College, Nellore being held during 22-23 Feb-2016.
- Submitted a Proposal “Automatic Low Cost and Fast Biometric based Patient Registration Retrieval System for an amount **Rs. 9 Lakhs** under **Core Research Grant Scheme** to **SERB, DST** from Narayana Engineering College, Nellore on 19th July-2016.
- Submitted a Proposal “Centre of Excellence for STI Indicators and Analytics(CoE-STIIA) “ for an amount **Rs.20.5 Crores** under **CoE-STIIA** to **ANRF, DST** from Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad, Telangana on 22nd Dec-2025.
- Submitted a proposal “Information Theoretic Limits and Stochastic Optimization of Federated Edge AI in Wireless Body Area Networks for Healthcare Diagnostics” for an amount of 5 Lakhs per annum for 5 years to ANRF under ARG-MATRICES on 29-May-2026.
- Books Authored: 6
- Patents Published/Granted: 4
- Paper Publications: 47

SCI / Web of Science Journals: 4, Conferences: 3

Scopus Journals: 12, Conferences: 2

UGC Care Journals: 9

Others:21

Research Interests:

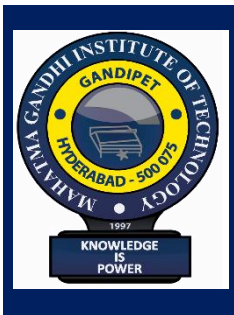
Digital Signal and Image Processing, Fiber optical Communications, Artificial Intelligence, Machine Learning and Deep Learning.

Education:

- Ph.D. (Thesis: “ENHANCEMENT OF IMAGE COMPRESSION AND DENOISING – A CURVELET TRANSFORM APPROACH”) from JNTU Hyderabad.2006 to May 2011.
- Thesis Link: <http://hdl.handle.net/10603/2210>
- M.Tech. (Industrial Electronics) from Mysore university, S.J.C.E.
- Mysore, India 1996 to May1998 with First Class.
- B.Tech. (Electronics & Communication Engg.) from S.V.University, Kadapa, India 1991 to May 1995 with First Class.

Experience(27+ years):

- Working as Professor since 27-11-2025 to till date at Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad, Telangana, India.
- Worked as Principal since 01-10-2022 to 26-11-2025 at Newton’s Institute of Engineering, Macherla, Palnadu (dt), A.P., India .
- Worked as Principal from 13-02-2021 to 22-08-2022 at Visvodaya Engineering College, Kavali, Nellore (dt), A.P., India .



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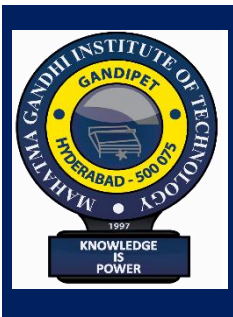
- <https://www.scopus.com/authid/detail.uri?authorId=56940775500>
- <https://scholar.google.co.in/citations?user=6VZbgFwAAAAJ&hl=en>

- Worked as Principal from 11-05-2017 to 12-02-2021 at Sri Vaagdevi Institute of Technology And Science, peddasettipalli, proddatur, Kadapa (dt), A.P., India .
- Worked as Principal from 06-06-2012 to 20-04-2017 at NARAYANA ENGINEERING COLLEGE, Nellore, A.P.,INDIA.
- Worked as Professor and Principal from 20-06-2010 to 05-06-2012 at EVM COLLEGE OF ENGINEERING & TECHNOLOGY, Narasaraopet, Guntur(dt), A.P.,INDIA.
- Worked as Professor and Principal i/c from 01-04-2008 to 19-06-2010 at SRI VENKATESWARA INSTITUTE OF SCIENCE AND TECHNOLOGY, Tadigotla, C.K.Dinne, Kadapa, A.P.,INDIA.
- Worked as an Associate Professor & HOD from 10-05-2003 to 31-03-2008 at SRI VAAGDEVI INSTITUTE OF TECHNOLOGY AND SCIENCE, Peddasettipalli, Proddatur, Kadapa, A.P, INDIA.
- Worked as an Assistant Professor(Sr Scale) from 20-09-2001 to 09-05-2003 at SREE VIDYANIKETHAN ENGINEERING COLLEGE, A.Rangampet, Tirupathi,A.P, INDIA.
- Worked as a Lecturer from 23-11-1998 to 18-09-2001 at ADHIYAMAAN COLLEGE OF ENGINEERING , Hosur, Tamilnadu, INDIA.

Papers Published:

Journals:

1. G.Jagadeeswar Reddy, T.Jayachandra Prasad, and M.N.Giriprasad, "Digital Image Compression using Curvelet Transform" in Research Journal of Engineering and Technology., Vol.1, issue.1, pp.36-39, April-June2008.ISSN:24678597, https://www.researchgate.net/publication/n/375422604_DiDigit_Image_Compression_using_Curvelet_Transf_o.
2. G.Jagadeeswar Reddy, T.Jayachandra Prasad, and M.N.Giriprasad, "Fingerprint Image Denoising using Curvelet Transform" in ARPN journal of Engineering and Applied Science(**Google Scholar**)., Vol.3, No.3,pp:31-35,June2008.ISSN1819 6608.
3. G.Jagadeeswar Reddy, T.Jayachandra Prasad, and M.N.Giriprasad, "Image Denoising by Curvelets" in i-managers Journal on Future Engineering Technology(**Google Scholar**),Vol.4,Issue.1, pp:63-68, 15th Oct 2008. ISSN 2230-7184,IMPACT FACTOR: 0.702 DOI: 10.26634/jfet.4.1.581
4. G.Jagadeeswar Reddy, T.Jayachandra Prasad, and M.N.Giriprasad, "Lossy Compression and Curvelet Thresholding for Image Denoising", in an International Journal of Information and Communication Technology(**Scopus**, **Google Scholar**) (IJICT),Vol.2, Nos.1-2, pp:41-49; June 2009. ISSN 1466-6642(print), 1741-8070(online), IMPACT FACTOR.0.337, <https://doi.org/10.1504/IJICT.2009.026428>



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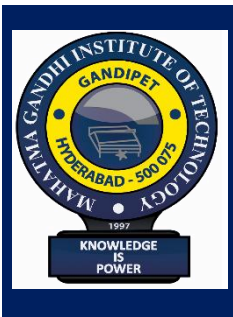
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5. G.Jagadeeswar Reddy, T.Jayachandra Prasad, and M.N.Giriprasad, "Curvelets for Fingerprint Image Compression" in i-manager's journal on Future engineering and Technology(Google Scholar), Vol.4, No.3, pp:46-50, Feb-April '09. ISSN 2230-7184 IMPACT FACTOR.0.702, DOI: 10.26634/jfet.4.3.279.
6. G.Jagadeeswar Reddy, T.Jayachandra Prasad, M.N.Giriprasad, M. Madhavi Latha and T. Satya Savithri "Curvelets with new Quantizer for Image Compression" in i-manager's journal on Communication Engineering and Systems(**Google Scholar**) vol.1, No.2, pp:12-16, April '12.ISSN 2277-5242 impact factor 0.769, citations 36,DOI: <http://www.imanagerpublications.com/Resources/Private/ArticlePDF/>...
7. T.Venkata Krishnamoorthy and G.Jagadeeswar Reddy "Variable block size Motion Compensation for Video Compression" in an International journal of Engineering Sciences Research-IJESR, vol.03, Issue.06, pp:894-900, Nov-Dec '12. ISSN 2230-8512, IMPACT FACTOR.3.005, https://www.researchgate.net/publication/375422974_VaVariab_block_size_Motion_Compensation_for_Video_CoCompression.
8. T.Venkata Krishnamoorthy and G.Jagadeeswar Reddy "Video Compression And Denoising Using Adaptive Variable Block Size Motion Compensation Algorithm " in an International Journal of Scientific & Engineering Research- IJSER, Volume 4, Issue 5, PP.1785-1788,May-2013. ISSN 2229-5518, IPACT FACTOR 3.8, CITATIONS 167, <https://www.ijser.org/researchpaper/VIDEO-COMPRESSON-AND-DENOISING-USING-ADAPTIVE-VARIABLE-BLOCK-SIZE-MOTION-COMPENSATION-ALGORITHM.pdf>.
9. T.Venkata Krishnamoorthy and G.Jagadeeswar Reddy "High Resolution Adaptive Technique for Video Compression Standards" in an Int Journal of Scientific Research in Computer Science Appl and Mgmt Studies- IJSRCSAMS , Volume 3, Issue 3,pp.391-395, May-2014. ISSN 2319-1953, IMPACT FACTOR.0.654, https://www.researchgate.net/publication/375456498_High_Resolutio_Adaptive_Technique_for_Video_CompressioC_Standards.
10. Sadhu krishna prasad ,G. Jagadeeshwar Reddy, "Built-in generation of functional broadside using fixed hardware structure",in an International journal of VLSI and embedded systems-IJVES *volume 05, article 09416; PP.1157-1161 September 2014*.ISSN 2249-6556 IMPACT FACTOR 1.83, https://www.researchgate.net/publication/375456957_Built-in_generation_of_functional_broadside_using_fixed_hardware_structure
11. G.Jagadeeswar Reddy, P.Hima bindu "Preprocessing of fingerprint for denoising using adhesive threshold based on wavelet transform",in an International journal of scientific engineering & technology research, vol.03,issue.29,PP.5906-5909 october-2014.ISSN: 2319-8885, IMPACT FACTOR.3.631, https://www.researchgate.net/publication/375457051_Preprocessing



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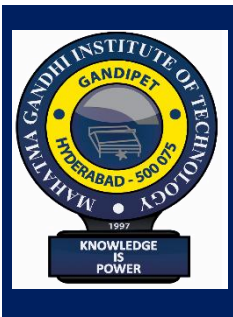
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of Fingerprint for Denoising using Adhesive Threshold Based on Wavelet Transform

- Subba Reddy Borra, G. Jagadeeswar Reddy and E. Sreenivasa Reddy “Fingerprint Image Denoising Using Wave Atom Transform” in an International Journal of Computer Science Engineering and Information Technology Research(**Google Scholar**)- IJCSEITR, Volume 4, Issue 6,pp.69-75, Dec-2014.ISSN: 2249-7943, IMPACT FACTOR.6.8785, CITATIONS.18, https://www.researchgate.net/publication/274603974_FINGERPRINT_IMAGE_DENOISING_USING_WAVE_ATOM_TRANSFORM
- Subba Reddy Borra, G. Jagadeeswar Reddy and E. Sreenivasa Reddy “Fingerprint Image Compression Using Wave Atom Transform” in an International Journal of Advanced Computing(**Google Scholar**), Volume 48, Issue 1,PP.1608-1613, April-2015.ISSN: 2051-0845, IMPACT FACTOR..01, CITE FACTOR .4, https://www.researchgate.net/publication/375457219_Fingerprint_Image_Compression_Using_Wave_Atom_Transform
- Subba Reddy Borra, G. Jagadeeswar Reddy and E. Sreenivasa Reddy “Seismic Data Compression Using Wave Atom Transform” in Global Journal of Computer Science and Technology(**Google Scholar**), Vol.15,Issue.F1,pp:35-41, Jan 2015. ISSN : 0975-4350, https://www.researchgate.net/publication/375457302_Seismic_Data_Compression_using_Wave_Atom_Transform_Year_F_2015_Seismic_Data_Compression_using_Wave_Atom_Transform
- Hemalatha M, Jagadeeswar Reddy.G,Murali.K, Nageswar Rao.E “Cognitive Radio Implementation with GRC” in Global Journal of Pure and applied Mathematics,(**Scopus**) Volume 11, number 5 , PP.3349-3359,FEB 2015, ISSN 0973-1768,IMPACT FACOR.0.34, https://www.researchgate.net/publication/284886776_Cognitive_radio_implementation_with_GRC
- Subba Reddy Borra, G. Jagadeeswar Reddy and E. Sreenivasa Reddy “An Efficient Fingerprint Enhancement Technique using Wave Atom Transform and MCS Algorithm” in Procedia Computer Science journal(**Web of Science, Scopus, Google Scholar**),vol. 89, PP. 785-793, FEB 2016.ISSN 1877-0509 IMPACT FACTOR. 0.883, CITATIONS .18, DOI: 10.1016/j.procs.2016.06.061
- Subba Reddy Borra, G. Jagadeeswar Reddy and E. Sreenivasa Reddy “An Efficient Fingerprint Identification using Neural Network and BAT Algorithm” in an International Journal of Electrical and Computer Engineering(**Scopus, Google Scholar**), Vol.8,No.2,PP.1194-1213, April 2018. ISSN 2088-8708, IMPACT FACTOR.2.3 ,CITATIONS .18, DOI: 10.11591/ijece.v8i2.pp1194-1213
- Subba Reddy Borra, G. Jagadeeswar Reddy & E. Sreenivasa Reddy “Classification of fingerprint images with the aid of morphological operation and AGNN classifier “ in Applied Computing and Informatics journal(**Scopus, Google Scholar**)Vol. 14, PP.166-176,FEB 2018.ISSN 2210-8327, IMPACT FACTOR.1.589, CITATIONS. 18, DOI: 10.1016/j.aci.2017.07.001



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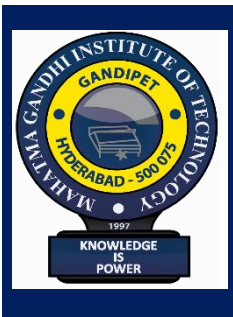
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- Dibbagandla Surendra, G. Jagadeeswar Reddy “Design of High-Performance Montgomery Modular Multiplication “ in an International Journal of Engineering Science and Generic Research, Vol.3, Issue.5, PP. 11-16, Sep-Oct 2017. ISSN: 2456-043X, IMPACT FACTOR.0.01, CITATIONS.
- Arva Sreelakshmi, G. Jagadeeswar Reddy “Design of Weighted Pseudorandom Test Pattern Generation for BIST Implementation Using Low Power” in an International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Vol.3, Issue.5, 2018, pp: 1016-1022, ISSN: 2456-3307.
- D Sekar, G. Jagadeeswar Reddy “Design for Convolutional Blind Source Separation” in an International Journal of Electrical and Computer Communication Engineering, Vol.6, Issue.4, ISSN: 2533-8945, July 2020,
- G. Jagadeeswar Reddy, Rajagari Javaheera “ An Area Efficient Design of PAL and PLA Using Reversible Logic “ in an International Journal of Electrical and Computer Communication Engineering, ISSN. 2533-8945, Vol. 6 Issue.2 Sep 2020, pp.176-180, https://www.researchgate.net/publication/375459334_AN_AREA_EFFICIENT_DESIGN_OF_PAL_AND_PLA_USING_REVERSIBLE_LOGIC
- G. Jagadeeswar Reddy, S. Siddeswara Reddy, Settipalli Sujitha “An Area Efficient 32 bit ALU Design Using Reversible Gates “ in an International Journal of Electrical and Computer Communication Engineering, ISSN. 2533-8945, Vol. 6 Issue.2 Sep 2020. pp. 170-175, https://www.researchgate.net/publication/375461972_AN_AREA_EFFICIENT_32_BIT_ALU_DESIGN_USING_REVERSIBLE_GATES.
- G. Jagadeeswar Reddy, M. Sandhya Rani, Vennapusa Chandana “An Efficient Low Area Architecture Of Modified PPA “ in an International Journal of Electrical and Computer Communication Engineering, ISSN. 2533-8945, Vol. 6 Issue.2 Sep 2020. pp. 161-165, https://www.researchgate.net/publication/375462328_AN_EFFICIENT_LOW_AREA_ARCHITECTURE_OF_MODIFIED_PPA
- G. Jagadeeswar Reddy, K Naveen Kumar Raju, Y Madhulatha “VLSI Design of Accuracy Scalable Approximate Computing Multiplier with Low Power and Less Area “ in Science, Technology and Development Multidisciplinary Journal, ISSN. 0950-0707, Vol. IX, Issue. XII, Dec 2020. pp. 1-4, https://www.researchgate.net/publication/375462332_VLSI_Design_of_Accuracy_Scalable_Approximate_Computing_Multiplier_with_Low_Power_and_Less_Area
- G. Jagadeeswar Reddy, S.M.K Sukumar Reddy, Kalluru Bhargavi “Encoding, Decoding And Correcting Circuits Of Low Power Hamming Code Using Reversible Logic “ in an International Journal of Electrical and Computer Communication Engineering, ISSN. 2533-8945, Vol. 6 Issue.2 Sep 2020. pp. 158-160, https://www.researchgate.net/publication/375462581_ENCODING_DECODING_AND_CORRECTING_CIRCUITS_OF_LOW_POWER_HAMMING_CODE_USING_REVERSIBLE_LOGIC



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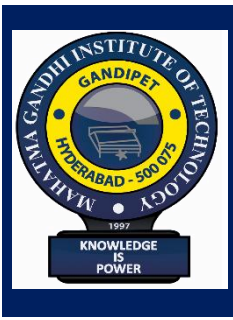
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27. G. Jagadeeswar Reddy, K Michal Raju, Obulareddy Haritha “An Optimised Design Of 64 bit ALU Using Reversible Logic “ in an International Journal of Electrical and Computer Communication Engineering, ISSN. 2533-8945, Vol. 6 Issue.2 Sep 2020. pp. 166-169, https://www.researchgate.net/publication/375462658_AN_OPTIMISED_DESIGN_OF_64_BIT_ALU_USING_REVERSIBLE_LOGIC
28. G. Jagadeeswar Reddy, Shaik Basheed, G. Neelima, A.V. Subbarao “ A Multifunctional Robot for Environment Monitoring in Industrial Autonomous & Safety Application “ in Industrial Engineering Journal (UGC Care Group-1), Vol.16, Issue.6, June 2023, pp.265-269, Impact factor: 6.9 ISSN.0970-2555, https://www.researchgate.net/publication/375742948_A_MULTIFUNCTIONAL_ROBOT_FOR_ENVIRONMENT_MONITORING_IN_INDUSTRIAL_AUTONOMOUS_SAFETY_APPLICATION
29. G. Jagadeeswar Reddy, Penchal Reddy Sura, Sk.M Rajvee “ A High Gain Circularly Polarized Dual Band Antenna Array Using Sequential Phase Rotation Technique For Wireless Applications “ in **Wireless Personal Communications (SCI)**, Vol.132, Aug 2023, pp.2111-2121, ISSN. 1572-834X, impact factor: 2.017 <https://link.springer.com/article/10.1007/s11277-023-10703-x>
30. G. Jagadeeswar Reddy, Subba Reddy Borra, A.V. Subba Rao and Vaddithandra Vijaya “ Automatic Measurement of Cardiothoracic Ratio in Chest X-Ray Images with Progan-Generated Dataset “ in ARPN Journal of Engineering and Applied Sciences (**Scopus**), Vol.18, No.18, pp.2080-2087, Sep 2023, Impact factor: 0.17, ISSN. 1819-6608, https://www.arpnjournals.org/jeas/research_papers/rp_2023/jeas_0923_9309.pdf
31. G. Jagadeeswar Reddy, Durgampudi Vara Prasad Reddy and A.V. Subba Rao “ Implementation of a Hybrid Wireless Network (HWN) for Industrial Safety Monitoring System using ARM Controller “ in Journal of the Maharaja Sayajirao University of Baroda (**UGC Care Group 1**), Vol.57, NO. 1(II), 2023, ISSN:0025-0422, pp: 407-412.
32. G. Jagadeeswar Reddy, S.Kandru Sai Chaitanya D. Veeraswamy, A.V. Subbarao “Implementation of Cloud based Street Light Intensity Controlling and Fault Detection System “ in Shodhasimhita : Journal of Fundamental and Comparative Research, (**UGC Care**), Vol.10, NO. 1(III), 2023, ISSN:2277-7067, pp: 767-772.
33. G. Jagadeeswar Reddy, Devarasetti Sambasivarao, A.V. Subbarao “Implementation of Multipurpose Human Protection Device (MHPD) for Emergency Situations “ in anvesak (**UGC care Group 1 Journal**), Vol.53, NO.0(I), ISSN:0378-4568, pp:640-645. July 2023.
34. Pamula Syam, V. Maaduri, G. Jagadeeswar Reddy, Dibbalakati Ramesh “Design And Implementation Of Advanced Traffic Light Controller System Using FPGA “ in Industrial Engineering Journal (**UGC Care Group 1**), Vol.52, Issue.3, ISSN: 0970-2555, pp:1434-1439, March 2023.
35. G. Jagadeeswar Reddy, S. Vasantha Swamy Nathan, Polepalli Kasaiah, Avula Eswar “Plan Design and Execution of an Elite Continuous SAR



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SUMMARY:

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LET'S MEET ON SOCIAL:

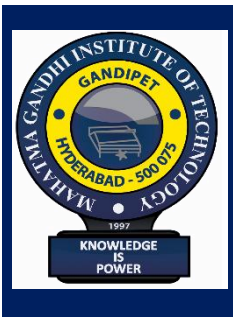
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Signal by Using Multi- Center DSP TMS320C6678 and VPX 3U Standards” in Shodhasamhita: Journal Fundamental and Comparative Research (**UGC Care**) , Vol: X, No.1(XII),2023, ISSN:2277-7067, pp:645-652.

36. G.Jagadeeswar Reddy, Polepalli Kasaiah, S.Vasanth Swamy Nathan, Beeravalli Suchitra “ Removal of Spickle Noise Using Different Filters” in Journal of The Maharaja Sayajirao University of Baroda (**UGC Care**), Vol.56, No.1(VII), 2022, ISSN:0025-0422, pp:824-829.
37. V Maaduri, G.Jagadeeswar Reddy, G.Seksha kumar, Bollam Sashidhar Reddy “ Detailed Preserved Single Image De-Hazing Algorithm Based on Airlight Refinement” in Journal of The Maharaja Sayajirao University of Baroda (**UGC Care**), Vol.56, No.1(VII), 2022, ISSN:0025-0422, pp:915-919.
38. D.Veera Swamy, G.Jagadeeswar Reddy, G.Seksha kumar, Bhumireddy Lokesh Kumar Reddy “ A Mixed Models Automated System for Detecting Diabetic Retinopathy “ in Shodhasamhita: Journal Fundamental and Comparative Research (**UGC Care**) , Vol: X, No.1(XII),2023, ISSN:2277-7067, pp:709-716.
39. Penchala Reddy Sura, Padmaja Nimmagadda, Ch Jyotsna Rani, Tathababu Addepalli, Jagadeesh Babu K., B.Y.V.N.R. Swamy, A.L. Siridhara, & G. Jagadeeswar Reddy “An Asymmetrical Psi-Shaped Multiband Antenna For Wireless Applications” in Telecommunications and Radio Engineering (**Scopus**), Vol.83, Issue.5, ISSN:0040-2508, Feb 2024, pp:1-10, DOI: 10.1615/TelecomRadEng.2024051727
40. Murthy SVNa, P.S. Ramesh , Pydimarri Padmaja , Bechoo Lal , G.Jagadeeswar Reddy , Narender Chinthamu “Using social networking evidence to examine the impact of environmental factors on social Followings: An innovative Machine learning method “ in Entertainment Computing (**SCI**), Vol.50, ISSN:1875-9521, 14th March 2024, pp: 1-9, DOI: <https://doi.org/10.1016/j.entcom.2024.100659>
41. A.V. Subba Rao , G.Jagadeeswar Reddy, V.Madhuri and A. Venkata Srinivasa Rao “A Novel Technique Predicting The Rice Leaf Diseases Using Convolutional Neural Network “in ARPN Journal of Engineering and Applied Sciences(**Scopus**), Vol.19, No.4, pp.232-240, Feb 2024, Impact factor: 0.17, ISSN. 1819-6608, https://www.arpnjournals.org/jeas/research_papers/rp_2024/jeas_0224_9406.pdf
42. Alla Ramakrishna, Kranthi Kumar Singamaneni, Guddeti Jagadeeswar Reddy, K Reddy Madhavi, and T Venkatakrishnamoorthy “A Novel QoS-Based IoT Network Security Approach with Lightweight Lattice-based Quantum Attribute-based Encryption “ in TSINGHUA SCIENCE AND TECHNOLOGY journal (**SCI**), Vol.1, pp.1-20, Sep 024, ISSN.1007-0214, DOI: 10.26599/TST.2024.9010084.

Conferences:

1. G.Jagadeeswar Reddy, T.Jayachandra Prasad, and M.N.GiriPrasad, “Curvelets and their applications(A Birds Eye View)” in



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international conference on ADvances in ELectionics and Communications (icon ADELCO), National Engineering College, Kovilpatti,TN, Feb 1-3, 2007.

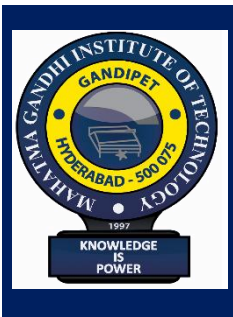
2. G.Jagadeeswar Reddy, T.Jayachandra Prasad, and M.N.Giriprasad, “Lossy Compression and Curvelet Thresholding for Image Denoising”, in IEEE International Conference(**Web of Science, Scopus**) on Electronic Design in Dec 1-3, 2008 at Penang, Malaysia, Universiti Malaysia Perlis, DOI: 10.1109/ICED.2008.4786663.
3. Subba Reddy Borra, G. Jagadeeswar Reddy and E. Sreenivasa Reddy “ A Broad Survey on Fingerprint Recognition Systems” in IEEE International Conference(**Web of Science, Scopus**) on Wireless Communications, Signal Processing and Networking (WiSPNET) at SSN College of Engineering, Chennai on March 23-25,2016.
4. Sukumar Reddy S M K, Malathi S, G Jagadeewar Reddy “Enhanced optical communication with modified ADCO-OFDM and relational reconfigurable LDPC decoding for next-generation access networks” in SPIE Women in Optics and Photonics in India, 2024, Chennai, India, 3 June 2024.
5. G Jagadeewar Reddy, Ragava Reddy Published “Predictive Analysis of the Indian Stock Market Using Machine Learning and Big Data” in 18th International Conference on Electronics, Computers and AI at IEEE, Romanian Section.

Books Authored:

1. A book on “Enhancement of Image Compression and Denoising by Curvelet Transform” for LAMBERT PUBLICATIONS in the year 2011. ISBN: 978-3-8454-4219-8
2. A book on “DIGITAL SIGNAL PROCESSING” as per JNTU syllabus for **BS PUBLICATIONS, HYDERABAD** in the year 2016, rpt:2022, ISBN:9789383635719
3. A book on “ Basics of ELECTROMAGNETIC WAVES AND TRANSMISSION LINES” for **Taylor and Francis Group** in the year 2020.
4. A book on “Analog and Digital Circuits” for Prime International Publication in the year 2022, ISBN:9789360103446.
5. E-Content of “Basics of Object Oriented Programming Using Java” for Amazon Kindle in the year 2023, web link: https://www.amazon.in/gp/product/BoCLL2BY7T/ref=kinw_mykro_title.
6. A book on “Fundamentals of Signals and Systems” for Prime International Publication in the year 2023, ISBN:9789360108816.

Events Organized:

1. A Two Week **ISTE** Workshop on” Analog Electronics” conducted by **IIT Kharagpur** from 4th to 14th June 2013 under the National Mission on Education through **ICT(MHRD)**.



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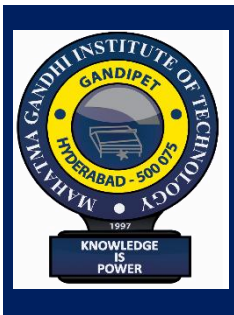
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2. A Two Week **ISTE** Workshop on” Engineering Mechanics” conducted by **IIT Bombay** from 26th Nov to 06th Dec 2013 under the National Mission on Education through **ICT(MHRD)**.
3. A Two Week **ISTE** Workshop on” Signals and Systems” conducted by **IIT Kharagpur** from 2nd to 12th Jan 2014 under the National Mission on Education through **ICT(MHRD)**.
4. An International Conference on "Emerging Trends in Communication Engineering" (ETiCE-2015) organized at Narayana Engineering College in May 2015.
5. A National Workshop on “ Rapid Prototype Design and Testing of IoT Applications using open Software and Arm Cortex Processor” at Narayana Engineering College, Nellore being held during 22-23 Feb-2016, Which is funded by **SERB, DST**.
6. A Workshop on “Smart Research Writing:AI & ICT Tools for SCI & SCOPUS Publications” at MGIT in collaboration with **University of Newcastle, Australia** during 22-23 Jan 2026.

Events Attended:

1. DSP short term course conducted by Sri Nidhi Institute of Technology, Hyderabad in the year 2002.
2. A Program on “Digital Image Processing” organized by Engineering Staff College of India(**ESCI**), Hyderabad during 18-19, Jan 2007.
3. An international conference on Advances in Electronics and Communications (icon **ADELCO**), National Engineering College, Kovilpatti,TN, Feb 1-3, 2007.
4. An IEEE International Conference(**Web of Science, Scopus**) on Electronic Design in Dec 1-3, 2008 at Penang, Malaysia, Universiti Malaysia Perlis.
5. An IEEE International Conference(**Web of Science, Scopus**) on Wireless Communications, Signal Processing and Networking (WiSPNET) at SSN College of Engineering, Chennai on March 23-25,2016.
6. A National workshop on “Revolution of IoT and It’s Applications” sponsored by **SERB, DST** in association with A.M. Reddy Memorial College of Engineering and Technology, Narasaraopeta, during 23-24 Dec-2016.
7. A National Workshop on “Solar Power:Now and Here” at Rajeev Gandhi Memorial College of Engineering & Technology, Nandyal, Kurnool under TEQIP during 23-25 March 2009.
8. An ISTE Workshop on “Analog Electronics” at Narayana Engineering college, Nellore conducted by IIT Kharagpur during 4-14 June 2013.
9. An ISTE Workshop on “Engineering Mechanics” at Narayana Engineering college, Nellore conducted by IIT Bombay during 26 Nov-06 Dec 2013.
10. An ISTE Workshop on “Signals & Systems” at Narayana Engineering college, Nellore conducted by IIT Kharagpur during 2-12 Jan 2014.



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11. A National Workshop on “Aero Modeling Quadcopter” at Vaagdevi Institute of Technology & Science in association with K.S. Info Tech Pvt. Ltd., Hyderabad on 07-10-2017.
12. An Online Webinar on “Impact of COVID-19 on the Development of Rural Economy-Challenges and Opportunities” organized by Lead India Foundation in association with JNTUA on 27-07-2020.
13. A Two-Day interactive online funding session held on 7-8 Jan 2026, organized by Research Heights Foundation and delivered by Dr.K.R. Murali Mohan, former Scientist-G, DST.
14. A National conclave on “Shaping the Future: Curriculum Transformation for Enhanced Employability in Higher Educational Institutions” at CBIT, Hyderabad on 08-01-2026.
15. An Online FDP on “Augmented Reality and Virtual Reality: Principles and Practical Implementation”, organized by CVR college of Engineering during 19-24 Jan 2026.
16. An Online FDP on “Emerging Trends in Cyber Security, Cryptography and Secure Networks”, organized by Guru Nanak Institutions Technical Campus during 6-10 July 2026.

Patents Published/ Granted:

1. Published an Indian Patent titled “An Advanced Child Rescue System For Bore Well” on 27/05/2022 with an Application No.202241027516A.
2. Published and Registered UK Design Grant Patent titled “Hybrid Solar And Wind Powered Charging Station For E-Vehicle “ on 13/12/2023 with Design No.6330587
3. Published an Indian Patent titled “A Modern Digital Framework for Cities Based on Block Chain and Fog Computing Technologies” on 22/12/2023 with an Application No.202321082077A
4. Published an Indian Patent titled “AI-Based Agriculture Soil Sensor POD” on 17-07-2026 with an Application No.500223-001.