



# ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY(A) (An AUTONOMOUS Institution)

Approved by AICTE, New Delhi \* Permanently Affiliated to JNTUK, Kakinada

Accredited by NBA\* Accredited by NAAC A+ Grade with CGPA of 3.40

Recognized by UGC Under Sections 2(f) and 12(B) of the UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem, Gandepalli Mandal, Kakinada District - 533437, A.P

Ph. 99591 76665, Email: office@acet.ac.in, www.acet.ac.in

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Journal Publications: -2024-25

Journal Articles- SCI/SCIE/ESCI	03
Journal Articles- Scopus	20
Journal Articles- UGC Care List	02
Journal Articles- Peer Reviewed	01
<b>Total</b>	<b>26</b>

### Journal Articles- SCI/SCIE/ESCI

1. Vivek Rajpoot, Vijay Shanker Tripathi, Ajay Kumar, **Dr. R. V. V. Krishna**, "Cross-layer Design Based Common Data Channel Selection Scheme in Cognitive Radio Ad-hoc Network" *Wireless Personal Communications*, Volume 137, pages 2061–2084, 31 July 2024, ISSN: 1572-834X.  
<https://link.springer.com/article/10.1007/s11277-024-11417-4>
2. **Palepu, Narayana Rao**, Jayendra Kumar, Samineni Peddakrishna, and Anumoy Ghosh. "Wideband meander-line-antipodal-Vivaldi slot-antenna for millimeter-wave applications." *e-Prime-Advances in Electrical Engineering, Electronics and Energy* Volume 9 July 2024, ISSN : 2772-6711
3. <https://www.sciencedirect.com/science/article/pii/S2772671124002213?via%3Dihub>
4. V. N. Senthil Kumaran, **Ramakrishna Guttula**, Gondhi Navabharat Reddy, "Hybrid Optimized LMMSE-Based Channel Estimation with Low Power Trellis Coded Modulation" *Cybernetics and Systems An International Journal*, Vol.55, Pp. 01 -23, June 2024. ISSN: 01969722  
<https://www.tandfonline.com/doi/epdf/10.1080/01969722.2024.2343989?needAccess=true>

## Journal Articles- Scopus

1. Karthick Muniyappan, **Ramakrishna Guttula**, Siva Kumar M, Nishikant Kishor Dhapekar, Lenin N, Senthilkumar J, Ramanpreet Singh, Vimal Kumar Patha “Optimization of cutting force during turning of custom 450 steel using TiAlSiN coated WC tool inserts”, *International Journal on Interactive Design and Manufacturing (IJIDeM)*, Vol.18, Pp. 01 -18, June 2024. ISSN: 19552505  
<https://link.springer.com/content/pdf/10.1007/s12008-024-01934-8.pdf>
2. R. Raman, Kishore Anthuvan Sahayaraj, Mukesh Soni , Nihar Ranjan Nayak, Ramya Govindaraj, Nikhil Kumar Singh, “Semantic Web Techniques for Clinical Topic Detection in Health Care”, *Computer Assisted Methods in Engineering and Science*, Vol.31, Issue. 2, Pp. 139–155, June 2024. ISSN: 22993649.  
<https://comes.ippt.pan.pl/index.php/comes/article/view/493/882>
3. MrudulaOwk, Pusarla Sindhu, Deepthi Godavarthi, **T. Krishna Mohana**, “TelMedAI: A Framework for Patient Speech Recognition and Conversion into Desired Language Towards Telemedicine System”, *International Journal of Electrical and Computer Engineering Systems*, Volume. 15, Issue. 7, Pp. 603-610, July 2024. ISSN: 2088-8708.  
<https://ijeces.ferit.hr/index.php/ijeces/article/view/3062/422>
4. Manjit Sandhu, R Venkata Ramana, , N Pradeep Narwade, **Ch Janaki Devi**, Tapas Guha, Rohit Chauhan, “Revolutionizing Radiology: AI-driven Innovations in Medical Imaging” *Journal of Electrical Systems; Paris* Volume . 20, Issue. 10s, Pp. 2006-2011, August 2024. ISSN: 1112-5209.  
<https://journal.esrgroups.org/jes/article/view/5521/3945>
5. Dr. RVS Praveen, Dr. Anurag Shrivastava, **Rayudu Prasanthi, Kukkala Hima Bindu, K Jayaram Kumar**, Kanchan Yadav, “Optimizing Pest Detection And Management In Precision Agriculture Through Deep Learning Approaches” *Library Progress International*, Volume.44 Issue.3, Pp. 5681-5691, September 2024. ISSN: 0970-1052.  
<https://bpsajournals.com/librarianscience/index.php/journal/article/view/1501/950>
6. Manthan S. Manavadaria, Sachin Upadhye, Shaik Khaleel Ahamed, **Kala Vijaya Kumari**, Saravanakumar C, Satyajee Srivastava, “Healthcare Breast Cancer Using Non-Linear Activated Deep Convolutional Attention Nets”, *Journal of Computational Analysis and Applications*, Volume.33 Issue.2, Pp. 425-435, September 2024. ISSN: 0970-1052.  
<https://www.eudoxuspress.com/index.php/pub/article/view/324/249>
7. Dr. Mohammad Ahmar Khan, Loyola Jasmine J, Dr. RVS Praveen, **Kala Vijaya Kumari**, Dr. Bachchu Lal Gupta, Narender Chinthamu, “Machine Learning Approaches for Anticipating Mechanical System Failures”, *Library Progress International*, Volume 44, Issue. 3, Pp.24675- 24681, November 2024, ISSN: 0970-1052.  
<https://bpsajournals.com/librarianscience/index.php/journal/article/view/3117/2923>

8. S. S. Ghosh, S. Chattopadhyay, **Dr. R. V. V. Krishna**, Ranjan Kumar Mahapatra, A. Das, Sudipta Das, "Measurement of Very Small Variation of Effective Resistance of MOSFET Deputed in Active Microgrid Inverter Operation," *Journal of Nano- and Electronic Physics*, vol. 16, no. 3, pp. 1–5, June 2024. [Online]. Available: [https://jnep.sumdu.edu.ua/en/full\\_article/3897](https://jnep.sumdu.edu.ua/en/full_article/3897)
9. Mahesh K. Singh, **Dr. D. Kishore, R. Anil Kumar**, "Accent Recognition of Speech Signal Using MFCC-SVM," *EVERGREEN*, vol. 11, no. 2, pp. 1305–1312, June 2024. [https://www.tj.kyushu-u.ac.jp/evergreen/contents/EG2024-11\\_2\\_content/pdf/p1305-1312.pdf](https://www.tj.kyushu-u.ac.jp/evergreen/contents/EG2024-11_2_content/pdf/p1305-1312.pdf)
10. Pinjala N. Malleswari, CRS Hanuman, **K. Venkata Ramana**, Samanthapudi Swathi, B. Elisha Raju, "Deep Learning Based DWT-Bi-LSTM Classifier for Enhanced Cardiovascular Arrhythmia Classification," *International Journal of Electrical and Electronics Research (IJEER)*, vol. 12, no. 3, pp. 934–939, August 2024. <https://ijeer.forexjournal.co.in/archive/volume-12/ijeer-120325.html>
11. Asfar H Siddiqui, Swetha V. P., Harish Chowdhary, **Dr. R. V. V. Krishna**, Elangovan Muniyandy, Lakshmana Phaneendra Maguluri, "Harnessing Big Data: Strategic Insights for IT Management," *International Journal of Advanced Computer Science and Applications (IJACSA)*, vol. 15, no. 7, pp. 912–921, August 2024. [https://thesai.org/Downloads/Volume15No7/Paper\\_90-Harnessing\\_Big\\_Data\\_Strategic\\_Insights.pdf](https://thesai.org/Downloads/Volume15No7/Paper_90-Harnessing_Big_Data_Strategic_Insights.pdf)
12. **Dr. R. Anil Kumar**, "A Low Complexity Enhanced Squirrel Search Algorithm for Reduction of Peak to Average Power Ratio in OFDM Systems," *International Journal of Communication Networks and Distributed Systems*, vol. 30, no. 5, pp. 594–616, August 2024. <https://www.inderscience.com/info/inarticle.php?artid=140675>
13. T. S. Karthik, Muniyandy Elangovan, A. Rama Prasath, A. K. Shrivastav, **K. Jayaram Kumar** "5G Resource Allocation Enhancement Via ResNet-Inception-V2 With Non-Linear Analysis," *Journal of Computational Analysis and Applications*, vol. 33, no. 2, pp. 306–305, August 2024. <https://eudoxuspress.com/index.php/pub/article/view/307/237>
14. **Dr. R. Anil Kumar**, Adireddy Ramesh, Sarala Patchala, U. Sreenivasulu, R. Prakash Kumar, "The Performance Analysis of Precoded Spacetime Frequency MIMO-GFDM Over Rayleigh Fading Channels," *Journal of Mechanics of Continua and Mathematical Sciences*, vol. 19, no. 9, pp. 35–47, September 2024. <https://jmcms.s3.amazonaws.com/wp-content/uploads/2024/09/14130827/jmcms-2409002-The-Performance-Analysis-of-Precoded-Space-Time-AK-SP-1.pdf>
15. Mandeep Kaur, N. Nagabhooshanam, Prashant Sharma, Satyendra Singh, **Dr. R. V. V. Krishna**, "Quantifying the Carbon Sequestration Potential of Different Soil Management Practices," *Global Nest Journal*, vol. 26, no. 7, pp. 14–21, June 2024. [https://journal.gnest.org/system/files/2024-08/gnest\\_05932\\_final.pdf](https://journal.gnest.org/system/files/2024-08/gnest_05932_final.pdf)
16. V. Y. Ganvir, **Dr. Inakoti Ramesh Raja**, E. Chandrasekaran, K. Suresh Kumar, H. V. Ganvir, "Non-Toxic Processable Solution Up-Cycling of Spent Electrical Anode:

Environmental Sustainability," *Communications on Applied Nonlinear Analysis*, vol. 32, no. 2, pp. 102–112, September 2024.

<https://internationalpubs.com/index.php/cana/article/view/1723>

17. RVS Praveen, Anurag Shrivastava, Rayudu Prasanthi, Kukkala Hima Bindu, **K. Jayaram Kumar**, "Optimizing Pest Detection and Management in Precision Agriculture Through Deep Learning Approaches," *Library Progress International*, vol. 44, no. 3, pp. 5681–5691, July 2024.

<https://bpsajournals.com/library-science/index.php/journal/article/view/1501>

18. T. S. Arulananth, M. Mahalakshmi, **Dr. P. Narayana Rao**, "Analysis of Reason to Global Warming Based on Heat Pattern Using Hyperspectral Imaging: Artificial Intelligence Application," *Remote Sensing in Earth Systems Sciences*, September 2024.

<https://link.springer.com/article/10.1007/s41976-024-00130-2>

19. Bangaru Ramana Kumar, Jagadeesh Bodapati, **Dr. D. Kishore**, "Phased Array Antenna Beam Steering - Role of Digital Phase Shifters," *Journal of Electrical System*, September 2024.

<https://journal.esrgroups.org/jes/article/view/6182>

20. D. Thamaraiselvi, R. M. Jagadish, Nagabhooshanam, M. Ramkumar Prabhu, **Dr. R. Anil Kumar**, K. D. V. Prasad, "Cloud-Based Human Authentication Through Scalable Multi-biometric Image Sensor Fusion," *Journal of Environmental Protection and Ecology*, vol. 25, no. 6, pp. 2145–2155, October 2024.

<https://scibulcom.net/en/article/b5Tr3gst0dvktS3hySKy>

### **Journal Articles- UGC Care List**

1. Devi Agraharapu, **Y Sugandhi Naidu**, "A Novel Architecture for Three-Operand Adder for Area Efficient Low-Power Computations", *Industrial Engineering Journal*, Volume : 53, Issue 6, June : 2024, ISSN: 0970-2555

[http://www.journal-iiie-india.com/1\\_june\\_24.html](http://www.journal-iiie-india.com/1_june_24.html)

2. Melam Jagadeeswar, **Y Sugandhi Naidu**, "Next-Gen IoT and Machine Learning model for water quality assessment and tracking system", *Journal of Nonlinear Analysis and Optimization*, Volume. 15, Issue. 1, No.15, June 2024. ISSN: 1906-9685.

<https://ph03.tci-thaijo.org/index.php/jnao/issue/view/287>

### **Journal Articles- Peer Reviewed**

1. Devendra Pratap Singh, **Rayudu Prasanthi**, Shalini Sharma, A. Sreenivasa Rao, S. Mohamed Rabeek, Sachin UmkantKalme, "Computational Chemistry Approaches For Drug Discovery: Accelerating The Design And Optimization Of Therapeutics" *African Journal of Biological Sciences*, Volume. 6, Issue. 12, Pp. 603-610, July 2024. ISSN:2663-2187.

<https://doi.org/10.48047/AFJBS.6.12.2024.2422-2433>

