



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(Autonomous)

L.B. Reddy Nagar, Mylavaram – 521230, Andhra Pradesh, INDIA

Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi.

Accredited by NAAC, With "A" Grade, NBA Tier-1 for ECE, EEE, CSE, IT, ME, ASE & CE

Recognised by Scientific and Industrial Research Organisation (SIRO)

Research & Development Cell

Date: 15-10-2025

Details of R & D Accomplishments during the A.Y.: 2024-25

i.	No. of SCI/ESCI papers	: 38/28
ii.	No. of Papers in Scopus indexed Journals	: 83
iii.	No. of Papers in Conf. Proceedings indexed by Scopus	: 171
	Total Papers in SCI & Scopus	: 320
iv.	No. of Open Access/UGC etc Journals	: 93
v.	No. of Books/Chapters published	: 16/34
vi.	No. of Patents Granted/Published	: 01/39
vii.	No. of Research Projects Sanctioned/Ongoing	: 5/11

R & D Publications for the A.Y.: 2024-25

(From 1st July 2024 – 30th June 2025)

Details of Publications											
S.No.	Dept.	SCI	ESCI	Scopus-J	Scopus-C	Total	UGC/Open Access	Books	Chapters	Patent-P	Patent-G
1.	AI&DS	02	02	07	22	33	07	06	00	03	00
2.	ASE	01	00	00	01	02	00	00	00	00	00
3.	CE	00	00	04	00	04	05	00	00	03	00
4.	CSE	08	01	22	49	80	18	04	07	07	00
5.	CSE(ML)	01	00	05	07	13	09	00	01	05	00
6.	ECE	05	09	13	22	49	15	00	16	04	00
7.	EEE	06	02	07	13	28	08	01	03	05	01
8.	IT	03	02	05	29	39	02	01	01	05	00
9.	ME	07	10	07	09	33	02	03	01	03	00
10	MBA	00	00	02	12	14	19	00	05	04	00
11	FED	05	02	11	07	25	08	01	00	00	00
	Total	38	28	83	171	320	93	16	34	39	01
Grand Total		503									

i. SCI/SCIE Papers

SCI Papers:

AI&DS: 2 ASE: 1 CE: 0 CSE:8 CSE(ML): 1 ECE:5 EEE:6 IT: 3 ME:7 MBA:0 FED:5 Total: 38

Aerospace Engineering (ASE): 01

1. **Inturi DM**, Pinnam L, Vegesna RR. Characterization of jets emanating from single expansion nozzles. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2025;0(0).<https://doi.org/10.1177/09544100251331688>

Artificial Intelligence and Data Science (AI&DS): 02

2. **V. Suryanarayana**, B. Prabhu Shankar, Rama Devi Burri, T. Priyanka, Ravi Kumar Saidala, A. Sasi Kumar, Piyush Chauhan, Jagdish Chandra Patni, "Effects of objects and image quality on melanoma classification using Spatio Temporal Joint graph Convolutional Network" Biomedical Signal Processing and Control, Volume 101,2025,107193, ISSN 1746-8094, <https://doi.org/10.1016/j.bspc.2024.107193>.
3. **Rajendra Babu Chikkala et al.**, "Enhancing Breast Cancer Diagnosis with Bidirectional Recurrent Neural Networks: A Novel Approach for Histopathological Image Multi-Classification," in IEEE Access, vol. 13, pp. 41682-41707, 2025,ISSN: 2169-3536 <https://ieeexplore.ieee.org/document/10891589>

Computer Science Engineering (CSE): 08

4. Rajendra Kumar G, **D. Veeraiah**, J. Nageswara Rao, Venkata Nagaraju T, Ramaswamy M, A. Rajaram, "**Revolutionizing vascular health through the temporal convolutional transformer for drug screening and model evolution**", Biomedical Signal Processing and Control, Volume 95, September 2024, ISSN NO .17468094, 17468108, <https://doi.org/10.1016/j.bspc.2024.106390>,
5. Siri D, Gopikrishna Vellaturi, Shaik Hussain Shaik Ibrahim, Srikanth Molugu, **D.Venkata Subbaiah** Raviteja Kocherla, Ramesh Vatambeti, "**Enhanced deep learning models for automatic fish species identification in underwater imagery**", Heliyon, **(H index:88)**27-07-2024, ISSN NO. 24058440, <https://doi.org/10.1016/j.heliyon.2024.e35217>,
6. Pramodh Krishna D, E. Sandhya, Khaja Shareef Sk, Srihari Varma Mantena, **D. Venkata Subbaiah**, Ch Koteswara rao, Srinivasa Rao Vemula & Maruthi Vemula, "**Enhancing security and efficiency in Mobile Ad Hoc Networks using a hybrid deep learning model for**

Q1 Journal

flooding attack detection", in Scientific Reports, 15:818, 04-01-2025, ISSN: 20452322.
<https://doi.org/10.1038/s41598-024-84421-0>

Q1 Journal

7. Bhansali A Sudheer D Tiwari, Shrikant, **D. Venkata Subbaiah**, Ahmad F, "**Prediction of Alzheimer's Disease Using Modified DNN with Optimal Feature Selection Based on Seagull Optimization**", Journal Of Imaging Informatics In Medicine(Springer)11-12-2024, ISSN: 2948-2925,<https://doi.org/10.1007/s10278-024-01262-z>

8. **B. Siva Rama Krishna**, Ch. N. Santhosh Kumar, B.V. Subba Rao, V. Rama Krishna, Rajendra Kumar G, and **J. Nageswara Rao**, "**Evaluating the Performance of Vascular Feature Extraction Boosting Algorithm for Peripheral Arterial Disease Detection**", International Journal of Pattern Recognition and Artificial Intelligence, Nov-24, ISSN (print):0218-0014|ISSN(online):1793-6381. <https://doi.org/10.1142/S021800142456010X>,

9. Udayaraju Pamula, Venkateswararao Pulipati, **G. Vijaya Suresh**, M. V. Jagannatha Reddy, Anil Kumar Bondala, Srihari Varma Mantena & Ramesh Vatambeti "**Optimizing diabetic retinopathy detection with electric fish algorithm and bilinear convolutional networks**" Scientific Reports. *Sci Rep* **15**, 14215 (2025).23 April 2025, ISSN/eISSN:2045-2322, <https://doi.org/10.1038/s41598-025-99228-w>.

Q1 Journal

10.**K. Devipriya** , Mehdi Tlija , Chanumolu Kiran Kumar ,V. Chandra Kumar ,Subrata Jana ,Chiranjibe Jana "**Automated micro-plastic detection and classification using deep convolution neural network pre-trained models and transfer learning**", "AIP Advances vol.15, Issue: 2, Date: 1/2/2025, E-ISSN: 2158-3226. <https://doi.org/10.1063/5.0243976>.

11. **S.Nagarjuna Reddy**, Chandra Sekhar Kolli,Mohan Kumar Chandol,R Ravi Kumar,Ravi Kumar Balleda, Masthan Siva Krishna Munaga, "**HHFNet: Hybrid Deep Learning Network for Course Recommendation Using H-Matrix**", Transactions on Emerging Telecommunications Technologies, vol.36, Issue:6, Pg.No: 1-20, 20-03-2025, E-ISSN: 2161-3915.<https://doi.org/10.1002/ett.70090>,

Computer Science Engineering (AI&ML): 01

12. S. Mande, N. Ramachandran, **S. Salma Asiya Begum** and F. Moreira, "Optimized Reinforcement Learning for Resource Allocation in Vehicular Ad Hoc Networks," in IEEE Access, vol. 12, pp. ISSN:2169-3536, 2024, doi: [10.1109/ACCESS.2024.3489395](https://doi.org/10.1109/ACCESS.2024.3489395)

Electronics and Communication Engineering (ECE): 05

13. Anandbabu Gopatoti, James Stephen Meka, **Poornaiah Billa**, "Hybrid medical image encryption with compression framework for Internet of Medical Things" in **Computers and Electrical Engineering**, 126(2025) 110443, June 2025. ISSN: 1879-0755
<https://doi.org/10.1016/j.compeleceng.2025.110443>

Q1 Journal

14. S.Vijayakumar, **Lachi Reddy Poreddy**, Mohammed Mahaboob Basha, Karnam Gopi, Srinivasulu Gundala and Javed Syed, "Design of Spurious Dynamic Inverter-Based Level Shifter with Error Tolerance for Robotic Arm Controller", **Micromachines**, November 2024, 15(12). SCIE Q2, ISSN: 2072-666X
<https://doi.org/10.3390/mi15121431>

15. Srinivasa Rao Ghali, B. Prudhvi Nadh, **Prathipati Rakesh Kumar**, Moath Alathbath, B.T.P. Madhav, "Design and optimization analysis of Srichakra Shaped Conformal Antenna for off-body communication applications" in **Wireless Personal Communications**, December 2024, ISSN: 1572-834X, IF:1.9
<https://doi.org/10.1007/s11277-024-11708-w>

16. D.Ram Sandeep, S.Salma, K.Sanjay Kumar, **P. Rakesh Kumar**, Satti Sudha Mohan Reddy, Kokku Aruna Kumari, Sanjay Bandi, B.T.P. Madhav, "Material Selection to Modeling: A Comprehensive Investigation of a Conformal Circularly polarized textile antenna for wearable applications, in IEEE Access, June 2025

17. S.K. Mastan Sharif, Rajasekhara Butta, Dhulipalla Venkata Rao, **G.L.N. Murthy**, "Improved LSTM-Squeeze Net Architecture for brain activity detection using EEG with improved feature Set" in **Biomedical Signal Processing and Control**, 101 (2025) 107222, November 2024, ISSN: 1746-8108.
<https://doi.org/10.1016/j.bspc.2024.107222>

Electrical and Electronics Engineering (EEE): 05

18. **K. Harinadha Reddy**, "Adaptive extreme learning machine using soft computing fuzzy propositions—Validating operating state of solar energy system", **Applied Soft Computing**, Volume 164, Issue C, 111966, October 2024, ISSN: 1568-4946
<https://doi.org/10.1016/j.asoc.2024.111966>.

Q1 Journal

19. **Y.Raghuvamsi**, K.Teeparthi, Vinod Kumar D.M, Imran Abdul, P.Srihari, "Distribution system state estimation using physics-guided deep learning approach", **Electric Power Systems Research**, Volume 236, 110922, July, 2024, ISSN: 0378-7796,
<https://doi.org/10.1016/j.epsr.2024.110922>,

20. **Y.Raghuvamsi**, Sreenadh Batchu, Kiran Teeparthi, Topology and FDIA Identification in Distribution System State Estimation using a Data-Driven Approach, Measurement, 253, Part D, PP.117741, May 2025, ISSN:0263-2241

<https://doi.org/10.1016/j.measurement.2025.117741>

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21. **G. Tabita**, P. Umapathi Reddy, "Design of interline hybrid continuous trans-impedance turns ratio controlled tuning power filter: New approach to suppress harmonics in energy system," Electric Power Systems Research, Volume 238, 111107, October, 2024, ISSN 0378-7796, <https://doi.org/10.1016/j.epsr.2024.111107>.

22. **G. Tabita**, P. Umapathi Reddy "Interline hybrid continuous converter impedance control-based tuning filter: effective harmonic suppression in DG-integrated electrical power grid", Electrical Engineering, 107, pp. 5501-5510, Nov, 2024, ISSN: 0948-7921, <https://doi.org/10.1007/s00202-024-02815-9>,

23. Varaprasad Janamala, **P. Sobha Rani**, K. Radha Rani, K. Swarnasri, "Transformative impact of electrical engineering on society, education, academia, and industry: a brief review" Electrical Engineering, <https://doi.org/10.1007/s00202-025-03066-y>, April 2025,

Information Technology (IT): 03

24. N. Velmurugan, R. Rajeswari, **Satuluri Naganjaneyulu**, A. Anupama, Rat swarm political optimizer based deep learning approach for lung lobe segmentation and lung cancer detection using CT images, Biomedical Signal Processing and Control, Volume Number:105, ISSN:1746-8094, 4 February 2025, <https://doi.org/10.1016/j.bspc.2025.107612>

25. Gupta, N., Malladi, R., **Naganjaneyulu, S.**, & Balhara, S. (2025). Optimized Attention Induced Multi Head Convolutional Neural Network for Intrusion Detection Systems in Vehicular Ad Hoc Networks. IEEE Transactions on Intelligent Transportation Systems. pp:1-10, Print ISSN:1524-9050, Electronic ISSN:1558-0016, 8-May-25 DOI: [10.1109/TITS.2025.3561545](https://doi.org/10.1109/TITS.2025.3561545)

Q1 Journal

26. Hajarathaiah, K., Kolli, C. S., Tatireddy, S. R., Kumar, M. S., Radha, V. K. R., & Reddy, **V. V. K.** (2025). Cascade Kronecker neuro-fuzzy network based influential node identification. Applied Soft Computing, 175, 113015., PP:1-19. ISSN:1568-4946, 1-May-25, <https://doi.org/10.1016/j.asoc.2025.113015>

Q1 Journal

Mechanical Engineering (ME): 07

27. **Dhanunjay Kumar Ammisetti**, Bharat Kumar Chigilipalli, Baburao Gaddala, Ravi Kumar Kottala, Radhamanohar Aepuru, T. Srinivasa Rao, Seepana Praveenkumar, and Ravinder Kumar, Experimental Investigation and Machine Learning Modeling of Tribological Characteristics of AZ31/B4C/GNPs Hybrid Composites, Crystals 14(12), 1007, Nov 2024, <https://doi.org/10.3390/cryst14121007>, ISSN: 2073-4352.

28. Harish Venu, Manzoore Elahi M Soudagar, Tiong Sieh Kiong, NM Razali, Hua-Rong Wei, Armin Rajabi, **V Dhana Raju**, TM Yunus Khan, Naif Almakayeel, Erdem Cuce, Huseyin Seker, Nanotechnology and LSTM machine learning algorithms in advanced fuel spray dynamics in CI engines with different bowl geometries, Scientific Reports, 15,983, Jan 2025, <https://doi.org/10.1038/s41598-024-83211-y>, ISSN:2045-2322,

Q1 Journal

29. Jayashri N Nair, **V. Dhana Raju**, T. Nagadurga Solar Ddryers for Food Preservation: An In-Depth Review of Design, Fabrication and Barriers, Food Engineering Reviews, Nov 2024, <https://doi.org/10.1007/s12393-024-09389-z>, 1866-7929, 1866-7910.

Q1 Journal

30. JayashriN. Nair,T. Nagadurga ,**V.Dhana Raju**, Harish Venu, Sameer Algburi,Sarfaraz Ka mangar, Amir Ibrahim Ali Arabi, Abdul Razak, Narasimha Marakala, Impact of fuel additives on the performance, combustion and emission characteristics of diesel engine charged by waste plastic bio-diesel, Case Studies in Thermal Engineering, March 2025, ISSN:2214-157X, <https://doi.org/10.1016/j.csite.2025.105755>,

Q1 Journal

31. C.Balakrishna Moorthy, **K. Dilip kumar**, R. Vijayakumar, P. Madhu, Enhancing thermal performance of solar air heater using graphene nano coatings: A comparative study with and without baffles, Thermal Science and Engineering Progress, Volume 60, April 2025, 103498, ISSN: 2451-9049, <https://doi.org/10.1016/j.tsep.2025.103498>,

Q1 Journal

32. T. Nagadurga, **V. Dhana Raju**, Abdulwasa Bakr Barnawi, Javed Khan Bhutto, Abdul Razak, Anteneh WogassoWodajo, Global MPPT optimization for partially shaded photovoltaic systems, March 2025, <https://doi.org/10.1038/s41598-025-89694-7>, ISSN:2045-2322,

Q1 Journal

33. Harish Venu V, Dhana Raju, Jayashri N. Nair, Sameer Algburi, Ali E. Anqi, Ali A. Rajhi, Mohammed Kareemullah, Exergy and energy-based sustainability evaluation of diesel-biodiesel-ethanol blends with emission forecasting using advanced machine learning models, Case Studies in Thermal Engineering, 73, June 2025, 106516, ISSN: 2214-157X, <https://doi.org/10.1016/j.csite.2025.106516>,

Q1 Journal

Freshmen Engineering Department (FED): 05

34. **K. Bhanu Lakshmi**, Kotha Gangadhar, M. Rupa Lavanya, Abderrahim Waif, “**Enhanced Thermal Transport in Magnetized Cu-Fe₃O₄/Water Hybrid Nanofluid on a Curved Surface with Improved Heat Absorption Coefficient**”, NANO, Vol., No., 25th September 2024, Article No. 2450140, ISSN/eISSN: 1793-2920/1793-7094 DOI: [DOI: 10.1142/S1793292024501406](https://doi.org/10.1142/S1793292024501406)

35. J.A. Bhaskar, K.N. Chidambara Kumar, V. Raju, T. Anjaneyulu, T. Suhasini, T. Narendrudu, **V. Parvathi**, Simhadri Naidu Juvvala, “**Enhanced pyroelectric property in lead-free 0.94Na_{0.5}Bi_{0.5}TiO₃-0.06Ba_{0.5}Ca_{0.15}Ti_{0.90}Zr_{0.10}O₃ solid solution for thermal energy harvesting**”, Ceramics International, Vol.51, No.2 , 6th January 2025, Pp. 2278-2284, ISSN/eISSN: 0272-8842/1873-3956, DOI: <https://doi.org/10.1016/j.ceramint.2024.11.205>

Q1 Journal

36. S. Venkata Krishna Sarma, Kotha Gangadhar, **K. Bhanu Lakshmi**, Saeed Dinarvand, “**Memory effects on MHD Williamson fluid over a stretched lubricated surface with microbes**”, Modern Physics Letters B, Vol., 39, No.24, 23rd January 2025, Article No. 2550113, ISSN 0217-9849 | E-ISSN 1793-6640, DOI: <https://doi.org/10.1142/S0217984925501131>

Q1 Journal

37. D. Jagadeeswara Rao K.Bhargavi, **Aruna Nayudu**, V.Nagalakshmi, Ramakrishna Madaka, Siriki Srinivasarao ,S.Yonatan Mulushoa, “**Effect of Nd³⁺ and Ag⁺ doped on synthesis, structural and magnetic properties of Sr₁Nd_xAg_yFe_{12-y}O₁₉ nano hexaferrite**”, Inorganic Chemistry Communications, Vol. 176, Article No. 114279, 10th March 2025, ISSN / eISSN: **1387-7003 / 1879-0259**, DOI: <https://doi.org/10.1016/j.inoche.2025.114279>

Q1 Journal

38. Abburi Sreenivas Rao, Charankumar Ganteda, M. Vara Lakshmi, I.B.N. Hima Bindu, **K.N.V. Lakshmi**, Gudala Balaji Prakash, Kamel Guedri, Wasim Jamshed, Syed M Hussain, Abdul Razak H Almaliki, “**The characteristics of thermal radiation and chemically boundary layer slip flow of a MHD Casson fluid over an exponentially elongating sheet**”, Journal of Radiation Research and Applied Sciences, Vol. 18, No. 2, Article No. 101504, 14th April 2025, ISSN: 1687-8507. (SCIE, Q2, Impact factor 1.7). DOI: <https://doi.org/10.1016/j.jrras.2025.101504>

ESCI Papers:

AI&DS: 2 ASE: 0 CE: 0 CSE: 1 CSE(ML): 0 ECE: 9 EEE: 2 IT: 2 ME: 10 MBA: 0 FED: 2 Total: 28

Artificial Intelligence and Data Science (AI&DS): 02

1. **Venkatesh Koreddi**, Shaik Chandini, B V T Kalyan Challa and M Sai Ram Teja “ Enhancing text summarization and audio generation using hybrid model” Engineering Research Express, Volume 7, Number 1, <https://iopscience.iop.org/article/10.1088/2631-8695/adae58/pdf>
2. **Venkatesh Koreddi**, Nalluri Manisha, Shaik Mohammad Kaif and Yeligeti Tejaswa Sai Kumar “Multilingual AI system for detecting offensive content across text, audio, and visual media” Engineering Research Express, Volume 7, Number 1, <https://iopscience.iop.org/article/10.1088/2631-8695/ada72a>

Computer Science Engineering (CSE): 01

3. Saiprasad Potharaju ,Ravi Kumar Tirandasu, Swapnali N. Tambe,Devyani Bhamare Jadhav , **D.Anil Kumar**, Shanmuk Srinivas Amiripalli, “**A two-step machine learning approach for predictive maintenance and anomaly detection in environmental sensor systems**”, MethodsX, Volume 14, June 2025, 103181,pg.no: 1-11, 28-Jan-2025, E-ISSN: 22150161, <https://doi.org/10.1016/j.mex.2025.103181>,

Electronics and Communication Engineering (ECE): 09

4. Raja Dhanavath, Satish Kumar Injeti, **Rambabu Busi**, “Grid-Edge optimization for maximizing the utilization of solarbattery and wind biomass systems in Large-Scale Networked Microgrids to minimize overall cost”, Journal of Active and Passive Electronic Devices, 18(4), ISSN:1555-029X, pp.257-281
<https://www.oldcitypublishing.com/journals/japed-home/japed-issue->
5. Raja Dhanavath, Satish Kumar Injeti, **Busi Rambabu**, “Optimization of solar-wind-battery Energy Storage systems in a Large Scale Networked Microgrids for the minimization of overall grid cost using improved butterfly optimizer”, Journal of Active and Passive Electronic Devices, 18(3),ISSN:1555-029X, pp.195-216
<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-18-number-3-2025/japed-18-3-p-195-216/>
6. K. Saujanya, **B.Poornaiah**, A. Kamala Kumari, Y. Srinivasa Rao, “The Effect of Strain Pulses on PVC-Graphite Nickel Thick Film Resistors”, Journal of Active and Passive Electronic Devices, 18(4), pp.317-325, April 2024, ISSN: 1555-029X
<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-18-number-4-2025/japed-18-4-p-317-325/>
7. Mohammed Mahaboob Basha, Pendli Pradeep, **Srinivasul Gundala**, Javed Syed, “Design of Compact and high gain dual-band four-port MIMO antenna array for mm-wave 5G communications”, Results in Engineering, 2025, January 2025, 25,ISSN: 2590-1230
<https://doi.org/10.1016/j.rineng.2025.104153>

8. B.Prudhvi Nadh, **Banothu YVNR Swamy**, Yarlagadda Ramakrishna, D Anveshini, Srinivasa Rao Kandula, Lokesh Raju V, Priyanka Das, BTP Madhav, "Design of Compact true wireless stereo (TWS) antenna in earphones for wearable communication applications", Engineering Research Express, 7(2025) 015322, January 2025
<https://doi.org/10.1088/2631-8695/ada873>
9. **M. Venkata Sudhakar**, "High-Speed voltage level-up shifter with wide range conversion for system-on-chip applications", Engineering Research Express, November 2024, ISSN: 2631-8695, <https://iopscience.iop.org/article/10.1088/2631-8695/ad923c>
10. Mohammed Mahaboob Basha, **Srinivasulu Gundala**, V Madhurima and Arfat Ahmad Khan, "Design of energy-efficient full subtractor circuit at near threshold computing for signal processing application", Engineering Research Express, 6(4), October 2024. ISSN: 2631-8695
<https://doi.org/10.1088/2631-8695/ad81ce>
11. **Rambabu Busi**, Satyanarayana Talam, Ch. Karthikeya Reddy, T. Ashok Reddy, R. Gowtham Arun Kumar R. Naveen, Ch. Jyothi ram and M. Harshada, "Design, Simulation and Optimization of MEMS-based Piezoresistive Biosensor with Stress Concentration Region for Biosensing Applications", The Journal of Active and Passive Electronic Devices (JAPED) USA, Vol.18. Issue. 1-2, P.P. 153-160, 2024. October 2024, ISSN: 1555-0281 (P) 1555-029X (O)
<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-18-number-2-2024/japed-18-2-p-153-160/>
12. M. Mahaboob Basha, **Srinivasulu Gundala and Rambabu Busi**, "Minimization of Leakage Current Control in CMOS Adder Circuits Using Parametric Variations", The Journal of Active and Passive Electronic Devices (JAPED), Vol.18. Issue. 1-2, P.P. 105-118, 2024. October 2024, ISSN: 1555-0281 (P) 1555-029X (O)
<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-18-number-2-2024/japed-18-2-p-105-118/>

Electrical and Electronics Engineering (EEE): 02

13. **Sobha Rani Penubarthi**, Radha Rani Korrapati, Varaprasad Janamala, Chaitanya Nimmagadda, Arigela Satya Veerendra and Srividya, "Chernobyl Disaster Optimizer-Based Optimal Integration of Hybrid Photovoltaic Systems and Network Reconfiguration for Reliable and Quality Power Supply to Nuclear Research Reactors", Modelling, Vol. 5, issue 3, pp:1268-1285, pp. 1268-1285, September, 2024, ISSN / eISSN: 2673-3951, <https://doi.org/10.3390/modelling5030065>,
14. **Srihari Parri**, Kiran Teeparthi, D. M. Vinod Kumar, "A novel hybrid framework based on decomposition and Y-former model for accurate wind speed forecasting", Modeling Earth Systems and Environment, Vol. 11, issue 217, April 2025, ISSN: 2363-6211, <https://doi.org/10.1007/s40808-025-02403-1>,

Information Technology (IT): 02

15. Manas Ranjan Mohanty, Pradeep Kumar Mallick, **Annapareddy VN Reddy**, Optimizing pulmonary chest x-ray classification with stacked feature ensemble and swin transformer integration, Biomedical Physics & Engineering Express, Volume:11, Issue:01, **6-Nov-24**, ISSN: 2057-1976, , DOI 10.1088/2057-1976/ad8c46
16. Praveen, S. P., Jyothi, V. E., Anuradha, C., **Venu Gopal**, K., Shariff, V., & Sindhura, S. (2024). Chronic kidney disease prediction using ML-based Neuro-Fuzzy model. International Journal of Image and Graphics, 24(06), (1-Nov-24), 2340013. ISSN (print): 0219-4678 | ISSN (online): 1793-6756 <https://doi.org/10.1142/S0219467823400132>

Mechanical Engineering (ME): 10

17. **Murahari Kolli**, Kosaraju Satyanarayana, Mechiri Sandeep Kumar, A. Varun, Solovev S. A., Oleg Igorevich Rozhdestvenskiy & Anil Kumar Saxena, Experimental investigation on agriculture waste residue reinforcement in Al 7075 alloy through rotary stir casting, Cogent Engineering, 11(1), 2410307, 2024, ISSN: 2331-1916, <https://doi.org/10.1080/23311916.2024.2410307>.
18. Ravi Prakash Babu Kocharla, Raghu Kumar Bandlamudi, Abdul Ahad Mirza, **Murahari Kolli**, Ragavanantham Shanmugam, Muralimohan Cheepu, Investigation on the Mechanical and Thermal Properties of Jute/Carbon Fiber Hybrid Composites with the Inclusion of Crab Shell Powder, Journal of Composites Science, 8(8), 2024, ISSN:2504-477X, <https://doi.org/10.3390/jcs8080296>,
19. KPV Krishna Varma, NS Naveen, PS Kishore, Satish Pujari, Krishna Jogi, **V Dhana Raju**, Optimizing the thermal performance of a double-pipe heat exchanger using twisted tapes with variable cuts and Fe₃O₄ nanofluid, Journal of Thermal Engineering, 10(5), 1184-1197, ISSN: 2148-7847, DOI: 10.14744/thermal.0000860.
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