RAJEEV GANDHI MEMORIAL COLLEGE OF ENGINEERING & TECHNOLOGY
Autonomous

Department of Electronics and Communication Engineering

WEB OF SCIENCE (SCI/SCIE/ESCI) INDEXED JOURNALS

Academic year :2024-25 (July-2024 to June-25)

SCI / SCIE

1. Sagar Bhattarai1,Pratap Kumar Dakua,Mohd Zahid Ansari,**Usen Dudekula** Rahul Pandey, Ismail Hossain · Ayman A. Ghfar "Exclusive optimization techniques for Cesium based perovskite solar cell for the efficiency increment" https://link.springer.com/article/10.1007/s12596-024-02026-2
2. Pratap Kumar Dakuala, Youssef Trabelsi b, **Usen Dudekula** c, Rajesh Tripathi d Sadanand d Abdelmoumene Laidouci e , Amrindra Pal f , Deepak Kumar Panda g , Rajesh Kumar Misra h, Sagar Bhattarai "Optimization of efficiency of CZTS-based solar cell through exclusive BSF layer engineering method" https://doi.org/10.1016/j.jpcs.2024.112156
3. Dakua, Pratap Kumar, **Neravati Nagaraja Kumar**, Subbulakshmi Ganesan, Junainah Abd Hamid, M. Ravi Kumar, Suman Saini, Piyus Kumar Pathak, Ahmed Alkhayyat, and Sagar Bhattarai. "A Parametric Analysis of CZTS/CdTe Heterostructure Solar Cell Based on SCAPS 1D." Journal of Electronic Materials (2024): 1-10. http://dx.doi.org/10.1007/s11664-024-11709-2
4. **C. Venkataiah**, M. Chennakesavulu and J. Sofia Priya Dharshini. A novel eye disease segmentation and classification model using advanced deep learning network. Biomedical Signal Processing and Control, Biomedical Signal Processing and Control Feb. 2025 https://doi.org/10.1016/j.bspc.2025.107565
5. Nainwal M, **Madhu Sudhana Reddy Y**, Dhaygude AD, Ramesh G, Govindasamy C, Mouli DV. ``A Novel Framework of IoT-Based Multi-Disease Monitoring System Using Heuristic Improvement of Adaptive Dilated and Attention-Based Deep Learning Approaches''. Cybernetics and Systems. Vol. 22, pp. 1-46, Feb. 2025. https://doi.org/10.1080/01969722.2025.2470786
6. **Ramanjaneyulu. N**., Venkataiah, C., Rao, Y. M., Chowdary, K. U., Reddy, M. M., & Jayamma, M. "An effective model of hybrid adaptive deep learning with attention mechanism for healthcare data analysis in blockchain-based secure transmission over IoT", Network: Computation in Neural Systems, pp. 1–39, April 2025. https://doi.org/10.1080/0954898X.2025.2492375
7. Munawwar Syed and **Panyam Vuppu Gopi Krishna Rao**, "An efficient deep learning based multi-level feature extraction network for multi-modal medical image fusion," The International Arab Journal of Information Technology, vol. 22, no. 3, pp. 429–447, May 2025. http://dx.doi.org/10.34028/iajit/22/3/2

8. **Turpati Suman**, Roy A, Addepalli T, Alkahtani M, Hakami A, Minai AF, Hammad A. Vector Decimation Harmonic Mean Based Algorithm For online Acoustic Feedback Active Noise Control. IEEE Access. ol. 13, pp. 96978-96999 2025 May 26. https://doi.org/10.1109/ACCESS.2025.3573446
9. **Maddikera Krishna Reddy**, Anusha Sowbarnika Veluswamy, S. Selvanayaki, C. Harini, Pavan Kumar, and Syed Shameem. "Modeling of metaheuristic-based dual cluster head selection with routing protocol for energy-efficient wireless sensor networks." Soft Computing,vol. 29, no. 6, pp. 2999-3020, June 2025. https://doi.org/10.1007/s00500-025-10563-6
10. Reddy BS, **Sathish A**. A Multiscale Atrous Convolution-based Adaptive ResUNet3+ with Attention-based ensemble convolution networks for brain tumour segmentation and classification using heuristic improvement. Biomedical Signal Processing and Control. 2024 May 1, vol. 91, no.105900.

ESCI:

1. Dr .D. Babu, S. Venkateswarlu, **R.Hanuma Naik**, D. Manjula, " Flow Of Magnetohydrodynamic Maxwell Fluid In Darcy – Forchheimer Model, With Cattaneo – Christov Heat Flux, Over A Stretching Sheet Subjected To Convective Boundary Conditions" East European Journal of Physics. vol. 3, p.p 226-235, (Sep. 2024). [Web of Science-ESCI], https://doi.org/10.26565/2312-4334-2024-3-22

2. B. Varun Kumar, **P.V. Gopi Krishna Rao**, An effective hybrid attention model for crop yield prediction using IoT-based three-phase prediction with an improved sailfish optimizer, Expert Systems with Applications, Volume 255, Part C, 2024, 124740, ISSN 0957-4174, December 2024 https://doi.org/10.1016/j.eswa.2024.124740.

3. Adapa Gopi, M.Purna Kishore, **V.N.V.Satya Prakash**, A.Kishore Reddy, Kotha Chandana, G.Rajesh Chandra, Venkata Kishore Kumar Rejeti, " Optimising ZnO:Al/ZnO/ZnMgO/CZTS Solar cells with ZnMgO Alloys for Efficient Photovoltaic Conversion: A Machine Learning Approach," Engineering Letters, vol. 33, no. 4, pp833-839, Apr.2025. https://www.engineeringletters.com/issues_v33/issue_4/index.html

4. M V Ganeswara Rao, **N. Ramanjaneyulu**, Y. Madhu Sudhana Reddy, Neravati Nagaraja Kumar, Palle Rangappa, and M. Chennakesavulu, "Design and Electrical Performance Analysis of AlGaAs/InGaAs/InP Pseudomorphic HEMT," Engineering Letters, vol. 33, no. 4, pp1029-1034, 2025. http://www.engineeringletters.com/issues_v33/issue_4/index.html
5. **Palle Rangappa**, and Anchula Sathish, "Interface Charge Sensitivity and Short-Channel Effect Mitigation in Asymmetrical Source Step-Channel FinFETs," Engineering Letters, vol. 33, no. 4, pp1135-1144, 2025. https://www.engineeringletters.com/issues_v33/issue_4/index.html
6. **Saraswathi V**, Siddaiah N. Performance Optimization of Vertical Tunnel Field-Effect Transistors: Impact of Gate and Dielectric Length Variations. Transactions on

Electrical and Electronic Materials, May 2025 pp. 1-3, Volume 26, pages 618–630. https://doi.org/10.1007/s42341-025-00615-x

7. P. Kiran Kumar, **J. Sofia Priya Dharshini**, Srinivas Samala, Nagamalli Arasavalli, N. Ramanjaneyulu, N. P. Dharani & K. Rajesh Babu, "Quantum confinement and bound state energy analysis in ultra-thin double gate MOSFETs using NEGF approach", Proceedings of the Indian National Science Academy, May, 2025. https://doi.org/10.1007/s43538-025-00437-8
8. **Saraswathi, V**., Siddaiah, N. Asymmetric Drain-Engineered Vertical Tunnel Field Effect Transistor: Design, Simulation, and Performance Optimization. Transactions on Electrical and Electronic Materials. June. 2025. https://doi.org/10.1007/s42341-025-00644-6
9. Venkata Krishna Moorthy, T., Y. Narasimha Reddy, **C. Venkataiah**, Neravati Nagaraja Kumar, D. Rajendra Prasad, Y. Mallikarjuna Rao, and Manjula Jayamma. "A Novel Multi-modality Deepfake Detection Using Cross-Model Fusion–Based Hybrid Harris Whale Depth-Wise Separable Dense Convolutional Bi-GRU Deepfake Model." Cognitive Computation Vol.17, no. 3 pp. 113, June 2025. https://doi.org/10.1007/s12559-025-10465-7
10. **Noorbasha, Sayedu Khasim**. "VME-EFD: A novel framework to eliminate the Electrooculogram artifact from single-channel EEGs." Biomedical Physics & Engineering Express 11, no. 1 (2024): 015041.