

Student Publication (2024-2025)

List of Journal Publication

- [1] . Bala Murali, **S.**, **Elakkiya, K.**, Kumaravel, S., Karthikeyan, M., Mishra, N., & Natarajan, R. (2025). Design and analysis of a miniaturized rhombus-rectangular antenna for WMTS and ISM bands. *Physica Scripta*, 100(4), 045508. **DOI:** 10.1088/1402-4896/adbac2
- [2] . Kanekal, D., **Ravichandran, V.**, Shukla, P., Jindal, S. K., & Sahoo, S. P. (2026). Finite element and circuit modeling of SiC MEMS multi-turn piezoresistive sensor device for reliable high-pressure sensing in hostile environments. *World Journal of Engineering*, 23(2), 493-504. **DOI:** 10.1108/WJE-08-2024-0458
- [3] . Chaudhary, A., Mittal, K., **Tejpal, B.**, Thakur, K., Varughese, D. A., & Sridevi, S. (2025). Enhancing CNN Performance with Right-Neighbor Deviation (RND) Pooling: A Focus on Multi-Class Brain Tumor Classification in MRI Images. *Biomedical Engineering: Applications, Basis and Communications*, 37(02), 2450046. **DOI:** 10.4015/S1016237224500467
- [4] . **Venkatesh, S.**, Sindhu, R., & Arunachalam, V. (2025). Hardware efficient approximate sigmoid activation function for classifying features around zero. *Integration*, 103, 102421. **DOI:** 10.1016/j.vlsi.2025.102421
- [5] . Shukla, S., **Rajkumar, S.**, Sinha, A., Esha, M., Elango, K., & Sampath, V. (2025). Federated learning with differential privacy for breast cancer diagnosis enabling secure data sharing and model integrity. *Scientific Reports*, 15(1), 13061. **DOI:** 10.1038/s41598-025-95858-2
- [6] . **Yogeshwar, J. B.**, Laskar, N. M., Samuel, A., Solomon, A., & Vijayvargiya, V. (2025). Design and analysis of low noise, low power OTA considering design trade-offs for biomedical applications. *Results in Engineering*, 26, 105103. **DOI:** 10.1016/j.rineng.2025.105103
- [7] . Nishith, V. S. P., **Saha, A.**, Das, R. R., & Sona, D. R. (2025). Smart fuel theft detection and alert system using IoT for augmented consumer protection at gas stations. *International Journal of Electrical and Electronics Engineering*, 12(4), 91-101. **DOI:** 10.14445/23488379/IJEEE-V12I4P106
- [8] . Bhardwaj, A., Dash, D., Anant, A., Bhanushali, V. M., Kushwah, A., **Mishra, I.**, & Pandey, C. K. (2025). Comprehensive analysis on complementary FET. *IEEE Access*, 13, 82554-82572. **DOI:** 10.1109/ACCESS.2025.3568134
- [9] . **Sai, S. B.**, Navaneeth, M., & Kannadassan, D. (2025). Cryogenic sub-THz ultrathin-body InGaAs MOSFET: physical modeling and DC/RF analysis. *Journal of Computational Electronics*, 24(3), 96. **DOI:** 10.1007/s10825-025-02324-3
- [10] . **Chandnani, K.**, Tripathy, S., Parbhakar, A. K., Takiar, K., Singhal, U., Sasikumar, P., & Maheswari, S. (2025). A novel smart baby cradle system utilizing IoT sensors and machine learning for optimized parental care. *Scientific Reports*, 15(1), 19080. **DOI:** 10.1038/s41598-025-02691-8

- [11] . **Reddy, N. S. P. K.**, Sarraf, M. K., Aarthi, G., Padhy, J. B., Sangeetha, N., & Srivastava, A. (2025). Performance evaluation of free space optical communication in diverse geographical regions in the South Indian state of Tamil Nadu. *Journal of Optical Communications*, (0). **DOI:** 10.1515/joc-2025-0068
- [12] . Aprameyha G.K., **Nilesh Yajat C.**, Hemanth Kumar S., Mohith Manian P.L., Chittaranjan Nayak, Pulimi Mahesh. (2025). Tunable multi-mode terahertz transmitter using single-layer graphene with cascaded topological photonic structures. *Materials Science and Engineering: B*, 321, 118337. **DOI:** 10.1016/j.mseb.2025.118337
- [13] . **Mounisha, M.**, Vamsi, V. K., Rajpoot, V., Kumar, R. A., & Verma, R. K. (2025). PSO-Based Resource Allocation in Cognitive Radio Ad-Hoc Network. *Defence Science Journal*, 75(3), 331-338. **DOI:** 10.14429/dsj.20908
- [14] . Himavanth, N., **Arshad, M.**, Kumaravel, S., Natarajan, R., Chandra, A., & Karthikeyan, M. (2025). Compact circle-shaped circularly polarized implantable antenna with combined e and hexagonal shaped patch for wireless biotelemetry. *Results in Engineering*, 27, 105758. **DOI:** 10.1016/j.rineng.2025.105758
- [15] . **Poddar, H.**, & Nayak, C. (2025). One-dimensional DNG-DPS photonic structure with a Kolakoski Quasicrystal lattice. *Journal of Optics*, 1-8. **DOI:** 10.1007/s12596-025-02824-2
- [16] . **Tejaswini, R.**, Abinaya, P., Anuprabha, S. S., Chidambaram, S. K., Arya, S., Choukiker, Y. K., & Bhowmick, A. (2025). Anomaly detection in IoT networks: A deep learning approach using autoencoders. *IEEE Access*, 13, 132739-132749. **DOI:** 10.1109/ACCESS.2025.3587727
- [17] . **Srivastava, A.**, Pandurangan, D., & Mishra, N. (2026). Triple-Band Quad-Port Highly Isolated MIMO Antenna for THz Applications with Frequency-Agile Characteristics. *Arabian Journal for Science and Engineering*, 51(6), 7673-7683. **DOI:** 10.1007/s13369-025-10505-2
- [18] . Sona, D. R., Bagadi, K., Annepu, V., Oyerinde, O. O., Manikanta, M., Gangireddy, K. A., D. Swaroop, & **Reddy, K. S. K.** (2025). Optimized UAV-Based Relay Algorithm for Enhanced Emergency Wireless Coverage in Disaster Areas. *Engineering Reports*, 7(8), e70295. **DOI:**10.1002/eng2.70295
- [19] . Nishith, V. P., **Saha, A.**, & Patwari, A. (2025). A novel modification and hardware implementation of the simplified AES algorithm for IoT applications. *Results in Engineering*, 106567. **DOI:** 10.1016/j.rineng.2025.106567
- [20] . **Jha, A. K.**, Tewari, A., Garg, M., Thomas, S. B., Das, R. R., & Sona, D. R. (2025). Optimizing 5G Sustainable Networks Performance in Urban Areas Using Machine Learning Techniques. *International Journal of Communication Systems*, 38(14), e70226. **DOI:** 10.1002/dac.70226
- [21] . **Kumar, A.**, Singh, I., & Choudhary, D. K. (2025). Spectrum sensing using fast Slepian transform for cognitive radio networks. *IEEE Access*. **DOI:** 10.1109/ACCESS.2025.3596336

- [22] . Dathan, L., Anjaneyulu, G., & **Hemanth, S.** (2025). Robust and secured hash algorithm using DLP over finite fields. *Journal of applied mathematics & informatics*, 43(4), 1067-1083. **DOI:** 10.14317/jami.2025.1067
- [23] . Dekate, N., Anubhab, A., **Menon, S.**, Arya, S., Bhowmick, A., Choukiker, Y. K., & Chidambaram, S. K. (2025). Intelligent handover management in ultra-dense 5g networks: A deep q-learning based prediction model. *IEEE Access*. **DOI:** 10.1109/ACCESS.2025.3600330
- [24] . Saxena, A., Agarwal, A., **Nagrath, B.**, Jayavanth, C. S., Thulasidoss, S., Maheswari, S., & Sasikumar, P. (2025). Deep learning-driven IoT solution for smart tomato farming. *Scientific Reports*, 15(1), 31092. **DOI:**10.1038/s41598-025-15615-3
- [25] . **Reddy, S. S.**, & Reddy, G. R. (2025). Processing of MST Radar Data using the Covariance Fitting Algorithm. *IEEE Access*. **DOI:** 10.1109/ACCESS.2025.3601379
- [26] . **Anujaa, T.**, Thajudeen Ali Ahamed, A. F., Baranwal, V., Thanikaiselvan, V., Subashanthini, S., Sivaranjani Devi, C., & Rengarajan, A. (2025). A lightweight multi round confusion-diffusion cryptosystem for securing images using a modified 5D chaotic system. *Scientific Reports*, 15(1), 31986. **DOI:** 10.1038/s41598-025-13290-y
- [27] . **Bhaiya, P.**, Karampurwala, A., Tiwari, A., Manohar, O. R., Sagar, P., & Shah, A. (2025). Flexible Neoprene Rubber-Based Patch Antenna for 5.9 GHz V2X Applications. *IEEE Access*. **DOI:** 10.1109/ACCESS.2025.3611814
- [28] . **Raghu, S.**, & Shankar, T. (2025). HDLCA: hunger driven lion clustering algorithm, a novel energy efficient and scalable clustering approach for underwater wireless sensor nodes. *Scientific Reports*, 15(1), 33292. **DOI:**10.1038/s41598-025-18043-5
- [29] . Katyal, V., Bajaj, V., **Parihar, A.**, & Singh, I. (2025). AI-driven security evaluation of the ZUC stream cipher in 5G networks. *IEEE Access*. **DOI:** 10.1109/ACCESS.2025.3612453
- [30] . **Krishna, R.**, & Choudhary, D. K. (2025). Improved Signal Detection in Bistable Systems Through Stochastic Resonance Across Diverse Noise Environments. *IEEE Access*. **DOI:** 10.1109/ACCESS.2025.3615606
- [31] . Kumar, A., **Singh, P.**, Kamble, D. P., & Singh, I. (2025). Hybrid cryptographic approach for strengthening IoT and 5G/B5G network security. *Scientific Reports*, 15(1), 37971. **DOI:**10.1038/s41598-025-21861-2
- [32] . Basu, A., Nath, A., Das, S., Pandey, A., Agrawal, A., **Hooda, P.**, & Nayak, C. (2025). Modified topological photonic crystal. *The European Physical Journal D*, 79(11), 141. **DOI:**10.1140/epjd/s10053-025-01079-7
- [33] . Pratap, S., Das, R. R., Thomas, S. B., Sona, D. R., & **Akash, K.** (2026). Coinmeter: a real-time digital asset analysis platform for data-driven investment decisions utilizing advanced visualization technologies. *International Journal of System Assurance Engineering and Management*, 17(4), 1297-1314. **DOI:** 10.1007/s13198-025-03036-4

- [34] . **Krishna, R.**, Palanisamy, G., Veerapu, G., & Js, N. (2025). An Adaptive Hybrid Framework for Detection of Hidden Periodicity in Synthetic and Biomedical Signals. *IEEE Access*, 13, 196727-196746. **DOI:**10.1109/ACCESS.2025.3631469
- [35] . **Pravesh, S.**, Nandana, M. K., Akshaya, R., & Christina Josephine Malathi, A. (2025). Study and design of heart-shaped microstrip patch antenna for SART applications. *Results in Engineering*, 25, 103819 **DOI:** 10.1016/j.rineng.2024.103819
- [36] . **Pande, Y.**, & Chaki, J. (2025). Brain tumor detection across diverse MR images: An automated triple-module approach integrating reduced fused deep features and machine learning. *Results in Engineering*, 25, 103832. **DOI:** 10.1016/j.rineng.2024.103832
- [37] . Avula Divya Reddy, **Namineni Sowmya** & Ravikumar C. V. (2024). Redundancy Protocols Performance Analysis in Business Networks. *ARPN Journal of Engineering and Applied Sciences*, 19 (22), 1367-1377. DOI: 10.59018/112469
- [38] . **Shyamsundar, R.**, & Harshavarthan, M. (2025). A cluster based routing for maximizing the lifetime of underwater wireless sensor network using gravitational search algorithm. *Results in Engineering*, 25, 104470. **DOI:** 10.1016/j.rineng.2025.104470
- [39] . Kumar, P. P., **Eedala, S. R.**, Yammanuru, A., Grace, A. N., & Malathi, A. C. J. (2025). Non-invasive leukemia detection via CSRR sensor. *Journal of Hazardous Materials Advances*, 18, 100654. **DOI:** 10.1016/j.hazadv.2025.100654
- [40] . **Kumar, P. P.**, Eedala, S. R., Yammanuru, A., Grace, A. N., & Malathi, A. C. J. (2025). Non-invasive leukemia detection via CSRR sensor. *Journal of Hazardous Materials Advances*, 18, 100654. **DOI:** 10.1016/j.hazadv.2025.100654

List of Conference Publication

- [1] . Shanmugan, S., Anbarasi, M., Agrawal, A., Sharan, N. N., Sharma, T., & **Singh, H.** (2024, December). Triple Layer Cyber Security Model for Anomaly Detection. In *2024 5th International Conference on Communication, Computing & Industry 6.0 (C2I6)* (pp. 1-6). IEEE. **DOI:**10.1109/C2I663243.2024.10895589
- [2] . **Venkatesh, S.**, Kumaraguruparan, S., & Elango, K. (2025, January). Optimization and Transient Response Enhancement of PI-Controlled Buck Converters using Load Current Feedforward and Ramp Compensation Technique. In *2025 International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI)* (pp. 701-705). IEEE. **DOI:**10.1109/ICMSCI62561.2025.10894143
- [3] . Raj, S. A. D., **Singh, A.**, Shekhawat, T. S., & Sivasankaran, K. (2025, February). Collision Avoidance System using YOLO-based Object Detection and Distance Estimation. In *2025 3rd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)* (pp. 178-184). IEEE. **DOI:** 10.1109/IDCIOT64235.2025.10915167
- [4] . **Ananthakrishnan, A.**, Rajesh, A., Arya, S., Mahalingam, M. S., Wang, Y., & Pandeewari, R. (2024, December). Precision beamforming for SAGIN networks: A reinforcement learning

approach to combat UAV hovering instability. In *2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)* (pp.1-4). IEEE. DOI: 10.1109/MAPCON61407.2024.10923365

- [5] . **Tejaswini, R.**, Vemuri, D., Li, X., Arya, S., Mahalingam, M. S., & Peng, Y. (2024, December). Quantum-driven collaborative UAS beam-reforming: A novel approach for congested spectrum environment in NextG communications. In *2024 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)* (pp. 1-4). IEEE. DOI: 10.1109/MAPCON61407.2024.10922990
- [6] . **Johar, R.**, Pattanayak, S., & Sahu, H. K. (2024, October). Analysis of dual-hop multiple df relays system with ris over nakagami-m fading. In *2024 5th IEEE Global Conference for Advancement in Technology (GCAT)* (pp. 1-6). IEEE. DOI: 10.1109/GCAT62922.2024.10924137
- [7] . Sharma, K. S., Hallur, A. G., **Venkatesh, S.**, Sumathi, G., Rajkumar, S., & Konguvel, E. (2025, January). Affordable iot security: A raspberry pi system for attendance and intruder detection. In *2025 1st International Conference on AIML-Applications for Engineering & Technology (ICAET)* (pp. 1-6). IEEE. DOI: 10.1109/ICAET63349.2025.10932230
- [8] . Sanvika, V., **Chandra, M. P.**, & Singh, I. (2025, January). Anomaly Detection in 5G Cellular Networks Using Machine Learning. In *2025 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)* (pp. 1-5). IEEE. DOI: 10.1109/SCEECS64059.2025.10940408
- [9] . Kolla, V., & Mandula, H., **Aravindhha, V.**, Konguvel, E. (2025, February). Machine learning-driven analysis and prediction of solar power generation for enhanced energy management. In *2025 International Conference on Electronics and Renewable Systems (ICEARS)* (pp. 1640-1645). IEEE. DOI:10.1109/ICEARS64219.2025.10940748
- [10] . Rani, R., & Bhagat, S., **Devansh.** (2024, September). Comparing Segmentation Algorithms in Medical Diagnostics Using Thermal Imaging. In *2024 International Conference on Artificial Intelligence and Emerging Technology (Global AI Summit)* (pp. 1309-1314). IEEE. DOI: 10.1109/GlobalAISummit62156.2024.10947964
- [11] . Gheewala, K., **Abirami, P.**, & Maji, D. (2025, February). Sensing of Biomechanical Properties of Normal and Cancerous Cells Using Micropillar Simulation. In *2025 IEEE 1st International Conference on Smart and Sustainable Developments in Electrical Engineering (SSDEE)* (pp. 1-4). IEEE. DOI:10.1109/SSDEE64538.2025.10967720
- [12] . **Chakravarthi, B. M.**, Reddy, M. V., & Sridevi, S. A. (2025, February). Power-Efficient Approximate 8 by 8 Vedic Multiplier Based DCT Block for JPEG Compression. In *2025 3rd International Conference on Integrated Circuits and Communication Systems (ICICACS)* (pp. 1-6). IEEE. DOI:10.1109/ICICACS65178.2025.10967620
- [13] . **Suresh, S.**, Ram, A., Aakash, M., & Sharma, P. (2025, March). Low Power Design Analysis of ALU Using FinFET. In *2025 3rd International Conference on Device Intelligence, Computing*

and Communication Technologies (DICCT) (pp. 218-223). IEEE. DOI:10.1109/DICCT64131.2025.10986604

- [14] . Gupta, S., **Sharma, S.**, Singh, K., & Shafi, N. (2025, March). Design and implementation of efficient 32-bit Vedic multiplier. In *2025 3rd International Conference on Device Intelligence, Computing and Communication Technologies (DICCT)* (pp. 643-648). IEEE. DOI:10.1109/DICCT64131.2025.10986706
- [15] . Aswath, S., Kishore, N., SK, T., **Vishwaa, M.**, Hariharan, A., & Vasavi, C. S. (2025). Smart car parking system with online reservation. *Procedia Computer Science*, 258, 2777-2786. DOI: 10.1016/j.procs.2025.04.538
- [16] . Nandhakumar, N., **Pradeep, S.**, & Christina Josephine Malathi, A. (2024, November). Enhanced Breast Cancer Detection and Monitoring System Using Microstrip Patch Antenna. In *2024 IEEE 11th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)* (pp. 1-5). IEEE. DOI:10.1109/UPCON62832.2024.10983739
- [17] . Kanawade, V., **Ganguly, C.**, & Kumar, M. (2025, March). Comparison of CFAR algorithms in real time target detection and tracking using millimeter wave radar. In *2025 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI)* (Vol. 3, pp. 1-5). IEEE. DOI: 10.1109/IATMSI64286.2025.10985433
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- [19] . **Mohapatra, P.**, Pattanayak, S., & Mishra, N. (2025, April). Design of a DGS Based Compact Wideband Microstrip Antenna for 5G Frequency Band Applications. In *2025 8th International Conference on Trends in Electronics and Informatics (ICOEI)* (pp. 394-398). IEEE. DOI: 10.1109/ICOEI65986.2025.11013745
- [20] . **Dhansukh, J.**, Adnaan, A., & Babu, D. V. (2025, April). An Efficient Urban Building Height Rover using Ultrasonic Sensor. In *2025 5th International Conference on Trends in Material Science and Inventive Materials (ICTMIM)* (pp. 713-718). IEEE. DOI: 10.1109/ICTMIM65579.2025.10988161
- [21] . Arish, P., Reddy, P. G. K., **Ramcharan, S.**, & Babu, V. (2025, April). Ambient energy capture from human footsteps using piezoelectric sensors. In *2025 5th International Conference on Trends in Material Science and Inventive Materials (ICTMIM)* (pp. 708-712). IEEE. DOI: 10.1109/ICTMIM65579.2025.10988371
- [22] . **Sujan, S.**, Naveen, N., Anuprabha, S. S., & Vijendra Babu, D. (2025, April). Smart Temperature Monitoring System with GPS Integration for Pharmaceutical Safety. In *2025 5th International Conference on Trends in Material Science and Inventive Materials (ICTMIM)* (pp. 703-707). IEEE. DOI: 10.1109/ICTMIM65579.2025.10988254

- [23] . Kawadse, S., Dudhe, A., **Agrawal, K.**, & Sahu, H. K. (2024, December). Analysis of RIS-Assisted 6G Networks with DF Relay and Selection Combining. In *International Conference on Intelligent Computing and Advances in Communication* (pp. 597-607). Singapore: Springer Nature Singapore. **DOI:** 10.1007/978-981-96-4071-3_50
- [24] . Nawani, R., **Priyadarshi, K.**, Harsh, K., & Sarma, S. S. (2025, January). Power Management Scheme Based on Haversine Formula for D2D Communication in 5G MM-Wave Network. In *2025 International Conference on Next Generation Communication & Information Processing (INCIP)* (pp. 661-665). IEEE. **DOI:** 10.1109/INCIP64058.2025.11019490
- [25] . Agarwal, A., **Dey, S.**, & Patwari, A. (2025, March). Soil Moisture Classification Using Computer Vision and Deep Learning Techniques. In *2025 7th International Conference on Signal Processing, Computing and Control (ISPCC)* (pp. 806-811). IEEE. **DOI:** 10.1109/ISPCC66872.2025.11039558
- [26] . **Yogeshwar, J. B.**, & Gokulanand, V. (2025, April). Design of Honeycomb Wide Bandstop FSS for C/X Band Application. In *2025 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence (RAEEUCCI)* (pp. 1-4). IEEE. **DOI:** 10.1109/RAEEUCCI63961.2025.11048187
- [27] . Kukreja, P. R., **Tiwari, A.**, Kumar, S., & Islam, M. (2025, April). Driver monitoring system: Enhancing road safety through machine learning and computer vision. In *2025 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence (RAEEUCCI)* (pp. 1-6). IEEE. **DOI:** 10.1109/RAEEUCCI63961.2025.11048307
- [28] . Gourav, K., **Wattamwar, A. M.**, & Rani, R. (2024, December). Exploring Future Sustainable Energy Resource-A Review on Diamond Batteries. In *2024 IEEE 11th Power India International Conference (PIICON)* (pp. 1-6). IEEE. **DOI:** 10.1109/PIICON63519.2024.10995150
- [29] . **Pande, S.**, & Khekare, G. (2024, December). A comparative analysis of machine learning algorithms for reliable range prediction in electric vehicles. In *2024 International Conference on Augmented Reality, Intelligent Systems, and Industrial Automation (ARIIA)* (pp. 1-6). IEEE. **DOI:** 10.1109/ARIIA63345.2024.11051616
- [30] . Laskar, N. M., Devi, S., Maurya, A., Mohanty, P., **Verma, P.**, & Nath, S. (2024, January). Optimal Design of Biomedical Operational Amplifier Using Improved Golden Jackal Optimization. In *International Conference on Micro/Nanoelectronics Devices, Circuits and Systems* (pp. 265-276). Singapore: Springer Nature Singapore. **DOI:** 10.1007/978-981-96-3758-4_24
- [31] . Subbaraj, S., Thomas, S. B., **Singh, A. K.**, Philip, R., & Mishra, T. (2025, May). Graphene-Inspired THz Frequency-Reconfigurable Antennas for Biomedical Applications. In *2025 International Conference on Microwave, Optical, and Communication Engineering (ICMOCE)* (pp. 1-4). IEEE. **DOI:** 10.1109/ICMOCE64100.2025.11076864
- [32] . Sinha, U., **Mukherjee, S.**, & Jindal, S. K. (2025, May). Quantum Holographic Communication via Holographic Entanglement Networks. In *2025 6th International Conference on Control,*

Communication and Computing (ICCC) (pp. 1-5). IEEE. **DOI:** 10.1109/ICCC64910.2025.11077340

- [33] . Allamsetty, S. Y., Singh, N. K., **Rathore, Y. S.**, Das, T. K., & Dwivedy, B. (2025, June). Design of a Slot-Antenna for RFID Reader Applications. In *2025 1st International Conference on Radio Frequency Communication and Networks (RFCoN)* (pp. 1-5). IEEE. **DOI:** 10.1109/RFCoN62306.2025.11085174
- [34] . Singh, H., Goyal, K., **Agarwal, D.**, Das, T. K., & Dwivedy, B. (2025, June). Design of a fractal-inspired monopole antenna for rfid and c-band applications. In *2025 1st International Conference on Radio Frequency Communication and Networks (RFCoN)* (pp. 1-5). IEEE. **DOI:** 10.1109/RFCoN62306.2025.11085305
- [35] . Jawandhiya, K., Chandak, R., Evuri, M., SB, J., **Ojha, A. K.**, & Das, T. K. (2025, June). Design of a Modified-Fractal Hexagonal Monopole Antenna for 5G Sub-6 GHz Applications. In *2025 1st International Conference on Radio Frequency Communication and Networks (RFCoN)* (pp. 1-4). IEEE. **DOI:** 10.1109/RFCoN62306.2025.11085291
- [36] . Kumawat, M., Paruthi, A., **Ghoshal, S.**, Jain, P., Das, T. K., & Dwivedy, B. (2025, June). Design of a mimo antenna for low mutual coupling and high directivity. In *2025 1st International Conference on Radio Frequency Communication and Networks (RFCoN)* (pp. 1-6). IEEE. **DOI:** 10.1109/RFCoN62306.2025.11085270
- [37] . Pranavi, B. L., **Anushka, J.**, Preethi, K., & Singh, I. (2025, March). BER Performance Analysis of NOMA-based 5G Network over Different Fading Channels. In *2025 International Conference on Next Generation Information System Engineering (NGISE)* (Vol. 1, pp. 1-6). IEEE. **DOI:** 10.1109/NGISE64126.2025.11085221
- [38] . **Sujan, S.**, Naveen, N., & Vijendra Babu, D. (2025, June). Smart bicycle helmet for rider safety with accident detection and turn indicators. In *2025 International Conference on Emerging Technologies in Computing and Communication (ETCC)* (pp. 1-6). IEEE. **DOI:** 10.1109/ETCC65847.2025.11108594
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