

# **Galgotias College of Engineering and Technology, Greater Noida**

Department of Electronics and Communication Engineering

## **(Students Publications)**

### **List of Publications 2023-24 (Conferences)**

1. Gupta, Amit, Manoranjan Kumar Singh, Rajneesh Jaiswal, Divya Goel, and Krishna Singh. "Standard Cell Library Design of 2: 1 Mux Using 45nm Technology." In 2023 International Conference on Next Generation Electronics (NEleX) pp. 1-5. IEEE, 2023.
2. Abdul Wahid, Aditi Singh, Muskan Mishra, Shilpee Patil, Analysis and Design of Capsule Antenna for Biomedical Applications, 2nd International Conference on Optimization Techniques In Engineering And Technology Engineering (ICOTET 2024).
3. Abhitendra Tiwari, Akshita Sinha, Aman Singh, Amber Gupta, Mr. Anil Kumar Pandey, Element Snake Shaped Array Antenna For 5G Millimeter Wave Application, International Conference on Communication, Computer Sciences and Engineering (IC3SE-2024).
4. Aditya Srivastava, Akanksha Rawal, Akanksha Singh, Aryanshi Dutt, Dr. R.L. Yadava, Design of A Compact Flexible Microwave Vivaldi Antenna for Medical Imaging, The International Conference on Communication, Computing, And Energy Efficiency (I3CEET-2024).
5. Aman Yadav, Arin Pal, Avinash Pathak, Ahad Khan, Mr Bishnu Deo Kumar, Secure and Fast Encryption Algorithm Based on IoT and Blockchain ICE 5.0 ITEMS-2024.
6. Muskan Mishra, Bal Krishna Pandey, Deepa Singh Devansh Jain, Dr. Jaspreet Kuar, Vehicle Detection Using Mask RCNN, ICOTET-2024.
7. Aadarsh Kumar Rai, Aman Sushil kumar Gupta, Ankit Kumar, Ayush Singh, Shilpee Patil, Design and Analysis of Triangular Patch Wearable Antenna for WBAN Applications, 2nd International Conference On Optimization Technologies In Engineering And Technology Engineering (ICOTET 2024).
8. Akash Singh, Akash Yadav, Avijeet Pandey, Amit Prajapati, Gavendra Singh, Grayscale to Colorization Using Machine Learning, International Conference On Intelligent Computing And Communication Techniques At JNU New Delhi, India.
9. Abhinav Pratap Shahi, Abhishek Tripathi, Devansh Gupta, Dr. Kuldeep Singh, Wearable Textile Monopole Antenna for WBAN Applications Using CMA, ICAAI5GI2024.
10. Amit Yadav Aayush Kumar Arvind Kumar Aditya Kr Ojha Dr. Brijesh Kr. Singh An Application of Image Processing and Machine Learning To Estimate Food Calorie, International Conference On Data Analytics And Management (ICDAM) 2024.
11. Aman Singh Anshu Jaiswal Arjun Verma Arnav Kumar Ms. Sakshi Mittal Real Time Driver Drowsiness Detection Using Yolov, 2nd International Conference On Optimization Techniques In Engineering And Technology Engineering (ICOTET 2024)
12. Isha Jaiswal Ishita Rawat Jatin Belani Dr.S.Mohamed Sulaiman Design And Implementation Of 4 Bit Carry Generator Circuit Using Pass Transistor Logic With 2x1

- Mux Approach International Conference On Communication, Computer Sciences And Engineering (IC3SE-2024) At Amity University, Greater Noida.
13. Divyanshu Srivastava Gaurav Rajput Mudit Sinha Poorvi Bhalerao Dr. Nitin Garg, Frequency And Linearity Parameter Analysis Of Nanotube Junction-Less Gate All Around MOSFET And Their Dependence On Inner And Outer Radius Of Gate International Conference On Innovative Trends In Electrical, Electronics And Bio-Technology Engineering (ICITEEB2024), Chandigarh University.
  14. Kunwar Nitesh Singh, Dr. Shahid Eqbal, BRAIN TUMOR DETECTION AND CLASSIFICATION BY LEVERAGING DEEP NEURAL NETWORK, ICITEEB2024 - International Conference on Innovative Trends In Electrical, Electronics And Bio-Technology Engineering.
  15. Rashmi Tiwari Prashant Bharadwaj Pratistha Singh Dr. Shahid Eqbal A Blind Assistant System Utilizing Object Detection For Improved Spatial Awareness 1st International Conference On Application Of AI In 5g And IOT-2024
  16. Madiha Rabbani Raj Singh Ratnotpal Narayan Singh Masood Asim, Shikha Gupta Route Optimization Using Hybrid A\* Algorithm for Mobile Robot, 4th IEEE INTERNATIONAL CONFERENCE ON ADVANCE COMPUTING AND INNOVATIVE TECHNOLOGIES IN ENGINEERING-2024.
  17. Raghevendra Jaiswal Rahul Maurya Dr. Ruchi Agarwal, Statistical Models for Bacterial Propagation in Human Respiratory Tract, International Conference on Communication, Computer Sciences And Engineering (IC3SE 2024).
  18. Rohit Kumar Niranjana Kumar Nishant Kumar Singh Priyanshi Singh, Richa Food Recognition and Calorie Estimation Using Deep Learning and Image Processing NATIONAL CONFERENCE ON COMPUTING AND ELECTRONICS ENGINEERING (NCCEE-24).
  19. Roshan Lal Verma, Shiv Sagar Yadav Vishakha Kushwaha Tanushree Dhinakaran M, Steganalysis Using LSB With Denoising and Binary Search, ICETCAI 2024.
  20. Saksham Sinha Shubhanshu Yadav Utsav Yadav Vijay Kumar Jaiswal R L Yadav Design and Analysis of Digital Metamaterial Filter for Advance Communication Systems I3CEET-2024.
  21. Shachee Mishra Shreya Raj Ranjana Kumari A Compact Fractal Loaded Monopole Antenna With Reconfigurable Band Rejection Capability Characteristics For SWB Applications ICECCT 2024.
  22. Ritika Rohini Gaur Shashank Shekhar Vaishnavi Gupta Ashish Pandey Identification of ASL Hand ICAAAIML- 2023.
  23. Rituraj Singh Rohan Chauhan Satya Vikram Singh Tushar Kishore Ajit Examining the electrical properties of double gate tunnel field effect transistors (TFET) ICOTET 2024.
  24. Ritik Verma Sahil Tibrewal Sarvendra Singh Satish Yadavs Mr. Alok Implementation of Object Detection Using FPGA ICBMLIA-2024.

25. Shiven Pandey Utkarsh Shukla Utkarsh Tripathi RL Yadav Metasurface-Enabled High-Gain And Dual-Band Antenna For 5G I3CEET 2024.
26. Satyam Singh Saurabh Singh Chhonkar Somica Pathak Ujjwal Yadav Shivam Gupta Model Order Reduction Of LTI Systems IC3SE-2024(IEEE Conference).
27. Sashi Kumar Singh Syed Fahad Masood Vishesh Tripathi Vishwas Srivastava Avinash Image Denoising Using Cnn ICETAI 2024.

#### List of Publications 2023-24 (Journal)

1. Shantanu Ranjan, Romil Singh, Shivam Sharma, Deependra Sinha Secure Imaging in 6D Chaos: A DNA-Encoded Approach for Enhanced Privacy, Tuijin Jishu/Journal of Propulsion Technology Vol. 45 No. 02 (2024).

#### List of Publications 2022-23 (Journal)

1. Dhinakaran, M., Anushka Mishra, Anshuman Singh, and Ankit Pal. "Image Enhancement and Lung Cancer Detection Using Anisotropic Diffusion Filter." *International Journal of Analytical and Applied Chemistry* 9, no. 1 (2023): 21-29.
2. Dhinakaran. M, Ritik Lahoti, Riyanshi Singh, Saransh Breast Cancer Detection and Multiple Classification using CNN, *Journal of Oncology and Hematology (RRJoOH)*, Vol 12, No 2, ISSN: 2319–3387(2023).
3. Garg, Nitin, Ashish Pandey, Avanish Kumar Pandey, Ashutosh Tyagi, and Aniket Pratap Singh. "Impact of temperature variation on linearity parameters of nanotube surrounding gate (NT-SG) MOSFETs." *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields* 37, no. 2 (2024): e3199.

#### List of Publications 2022-23 (Conferences)

1. Yadav, Aman, Anmol Pandey, Anujaya Singh, Bishnu Deo Kumar, and Ashish Pandey. "A Novel Metaheuristic Approach for Lifetime Enhancement of 3-Tier Wireless Sensor Network." In *2023 10th International Conference on Signal Processing and Integrated Networks (SPIN)*, pp. 271-275. IEEE, 2023.
2. Mishra, Ajey Shakti, Akanksha Srivastava, Aashi Rohit Modi, and Ashish Pandey. "Cyberbullying and Suicide Ideation Detection via Hybrid Machine Learning Model." In *2023 10th International Conference on Signal Processing and Integrated Networks (SPIN)*, pp. 265-270. IEEE, 2023.
3. Rani, Rekha, Abhishek Tiwari, Aman Tiwari, Akshay Singh, Adarsh Singh, and M. Lakshmanan. "Outage Performance of Hybrid FSO/RF-FSO Communication System with single threshold." In *2023 2nd International Conference on Vision Towards Emerging Trends in Communication and Networking Technologies (ViTECoN)*, pp. 1-5. IEEE,

- 2023.
4. Tiwari, Pranjali, Ketan Rai, Naman Kumar Shukla, Nitish Malik, and Rekha Rani. "Performance Enhancement of WDM-RoFSO Communication System under Different Weather Conditions." In 2023 2nd International Conference on Vision Towards Emerging Trends in Communication and Networking Technologies (ViTECoN), pp. 1-5. IEEE, 2023.
  5. Rani, Rekha, Gurjit Kaur, Shubham Gautam, M. Lakshmanan, and Shubham Kumar. "Performance Analysis of Dual-Hop Mixed RF/FSO System over Nakagami-m/Fisher-Snedecor Fading Channels." In 2023 International Conference on Artificial Intelligence and Smart Communication (AISC), pp. 108-112. IEEE, 2023.
  6. Agrawal, Shreyanshi, Siddharth Saini, Tushar Sharma, Rekha Rani, and M. Lakshmanan. "BER Analysis of Hybrid LPPM-POLSK-SIM Over Double Generalized Gamma Distribution Incorporating Zero Boresight Pointing Error." In 2022 4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N), pp. 1743-1748. IEEE, 2022.
  7. Siddharth, Mokkapaty, Suyash Shah, Narendra Vishwakarma, and R. Swaminathan. "Performance analysis of adaptive combining based hybrid FSO/RF terrestrial communication." IET Communications 14, no. 22 (2020): 4057-4068.
  8. Kumar, Bishnu Deo, Hilal Ahmad Mir, Mohd Kaif Ahmed, and Mohd Tabish Siddiqui. "Exam form automation using facial recognition." Materials Today: Proceedings 80 (2023): 2236-2240.
  9. Kumar, Bishnu Deo, Amit Kumar Rout, Ayush Chaudhary, and Anurag Pathak. "Crop analysis and prediction using machine learning techniques." In AIP Conference Proceedings, vol. 2764, no. 1. AIP Publishing, 2023.
  10. Kumar, Bishnu Deo, Himanshu Pandey, Nikhil Prakash, and Prajjwal Tripathi. "One-Shot Learning Methodology For Plant Leaf Disease Identification." In 2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), pp. 719-724. IEEE, 2023.
  11. Tripathi, Subrat, Saurabh Singh, Tanya Tanya, Shivani Kapoor, and Amanpreet Singh Saini. "Analysis of obstruction avoidance assistants to enhance the mobility of visually impaired person: A systematic review." In 2023 International Conference on Artificial Intelligence and Smart Communication (AISC), pp. 134-142. IEEE, 2023.
  12. Tanya, Tanya, Saurabh Singh, Subrat Tripathi, Shivani Kapoor, and Amanpreet Singh Saini. "Obstruction Avoidance Framework for Indoor and Outdoor Navigation to Enhance Mobility of Visually Impaired Person." In 2023 International Conference on Computational Intelligence, Communication Technology and Networking (CICTN), pp. 548-552. IEEE, 2023.

#### **List of Publications 2021-22 (Journal)**

1. Eqbal, Shahid, Anjali Gupta, Anmol Goel, and Bhabya Bharti. "Artificial Conversation Entity Using Python for Educational Institute." *NeuroQuantology* 20, no. 7 (2022): 1974.
2. Singh, S. Pratap, Suman Yadav, Rajneesh Kumar Singh, Vineet Kansal, and Ghanshyam Singh. "Secrecy capacity of diffusive molecular communication under different deployments." *IEEE Access* 10 (2022): 21670-21683.
3. Pratap Singh, S., Shekhar Singh, Amit Kumar, Ashish Pandey, Noor Mohammed, and Sanjay Kumar. "Generic MGF-based tight approximation for the error rate analysis." *International Journal of Communication Systems* 35, no. 9 (2022): e5127.
4. Dhinakaran M, Isha Jaiswal, Ishita Rawat, Jatin Belani Detection of Brain Tumor using K-Means Clustering Algorithm *International Journal of Image Processing and Pattern Recognition* Vol 9, No 2(2023)

#### **List of Publications 2021-22 (Conference)**

1. Ayush Jain, Deepanshu Arora, Kumari Ankita, Monika Bhatnagar, Raman Bali, Design of Microstrip Patch Antenna for 5G Mobile Communication Recent Developments in Computer and Communication Technologies (GC-RDCT2022), 876-885,2022.
2. Rani, Rekha, Gurjit Kaur, Sirhan Maheshwari, Vikash Kumar Pandey, and Sneha Porwal. "Outage probability analysis of RF/FSO System Over Nakagami-m Fading and Fisher-Snedecor Distribution with Pointing Error." In *2022 International Conference on Advances in Computing, Communication and Materials (ICACCM)*, pp. 1-5. IEEE, 2022.
3. Rathore, Shivansh, Vaishnav Sharan, Sudhanshu Kushwaha, and Shivam Gupta. "Model Order Reduction using Routh Approximation and Pade Method." In *2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)*, pp. 2098-2102. IEEE, 2022.

#### **List of Publications 2020-21 (Journal)**

1. Shahid, Abhinav Verma, Anjali mehta, Aditi karsoulya, Facial Recognition Based Attendance System *Turkish Online Journal of Qualitative Inquiry*, Volume 12, Issue 7, July 2021.
2. Singh, Rajneesh Kumar, S. Pratap Singh, and Shailesh Tiwari. "Performance of Electromagnetic Nanonetwork under relaying for plant monitoring." *Physical Communication* 47 (2021): 101316.
3. Alok Yadav, Abhishek Kumar, Aditya Shukla, Adarsh Goswami, Atul Kumar Design of Terahertz Antenna based on Transparent Graphene material *International Journal for Research in Engineering and Emerging Trends* Volume 5, Issue 1, May- Dec 2021.
4. Verma, Rahul Kumar, Anubhav Kumar, and R. L. Yadava. "WI-FI Reconfigurable Dual Band Microstrip MIMO Antenna for 5G and Wi-Fi WLAN Applications." *Przeglad Elektrotechniczny* 97, no. 7 (2021).

5. Diksha Arora, Harsh Gupta, Mohd Taha Ali, Jaspreet Kour Crime detection, Analysis and Criminal tracking Turkish Online Journal of Qualitative Inquiry vol12, no. 7, July 2021.
6. Asad, Srihan Maheshwari, Sneha Porwal Jaspreet Kour Face mask detector using OPENCV Tensor flow and CNN International Journal of Advanced Research in Computer Science Engineering vol. 1, no. 1, July 2021.

#### **List of Publications 2020-21 (Conference)**

7. Kumari, Ranjana, Pranav Suri, Prabhakar Kaudinya, and Piyush Singh Katheria. "A simple semi-circular arc shaped frequency and polarization reconfigurable antenna." In Journal of Physics: Conference Series, vol. 1921, no. 1, p. 012045. IOP Publishing, 2021.
8. Prakash, Sanyukta, AS Mohammed Shariff, Rajneesh Kumar Singh, Shyam Pratap Singh, and M. Lakshmanan. "Multirate Approach for DNA Analysis in Genomics." In 2021 International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), pp. 799-802. IEEE, 2021.
9. Singh, Rajneesh Kumar, S. Pratap Singh, and Shailesh Tiwari. "Statistical Computation of Harvested Energy for Nano Sensor Network." In 2021 11th International Conference on Cloud Computing, Data Science & Engineering (Confluence), pp. 678-682. IEEE, 2021.
- 10.
11. Gupta, Mansi, Gagan Agrawal, Namrata Kumari, and Rekha Rani. "Bit error rate analysis for indoor optical wireless communication system." In Advances in Smart Communication and Imaging Systems: Select Proceedings of MedCom 2020, pp. 423-431. Springer Singapore, 2021.
12. Govindharaj, Arunprasad, M. Dhinakaran, Aniket Pratap Singh, Avanish Kumar Pandey, and Ashutosh Tyagi. "Effective Battery Cooling System for Electric Vehicle." In 2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), pp. 1844-1848. IEEE, 2022.
13. Mishra, Shreya, Shubham Kumar, Shubham Gautam, and Jaspreet Kour. "Real Time Expression Detection of Multiple Faces Using Deep Learning." In 2021 International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), pp. 537-542. IEEE, 2021.
14. Kumar, Bishnu Deo, Apoorv Kushwaha, Amit Kumar, and Ashutosh Agarwal. "Design & Implementation of Digital Guitar Tuner Using MATLAB." In 2021 International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), pp. 547-549. IEEE, 2021.