

# GOVERNMENT ENGINEERING COLLEGE BILASPUR (C.G.)

## Department of Electronics & Telecommunication Engineering

### Publication Details Year wise:

#### Year: 2022

1. S. Yadav, "Bi-Keeper Arrangement with Isolated Contention Stage Technique for Domino Logic based Low Power High Fan-in OR Gates," *JOURNAL OF OPTOELECTRONICS LASER*, 2022, vol. 41, no. 5, pp. 7-19, doi: 10050086.2022.05.2.
2. U. Dewangan, "Systematic literature review on crop yield prediction using machine & deep learning algorithm," *ICAST 2022*, IEEE, 2022, pp. 654-661.
3. U. Dewangan, "Efficiency of ultra-dense multi-tier future cellular networks for 5G: A survey," *Wireless Personal Communications*, 2022, vol. 122, no. 4, pp. 3269-3291.
4. U. Dewangan, "FPGA IMPLEMENTATION OF MULTI-BAUD RATE UART PROTOCOL FOR DIGITAL CIRCUIT APPLICATIONS," *Stochastic Modeling & Applications*, Special Issue on Innovative Research in Management, Applied Science and Engineering, 2022, vol. 26, no. 3, pp. 843-853.
5. R. Gupta, "Bi-Keeper Arrangement with Isolated Contention Stage Technique for Domino Logic based Low Power High Fan-in OR Gates," *JOURNAL OF OPTOELECTRONICS LASER*, 2022, vol. 41, no. 5, pp. 7-19, doi: 10050086.2022.05.2.
6. R. Gupta, "Grid-Connected Transformer-less Inverters for Photovoltaic Systems: Analysis and Control," *Journal of Optoelectronics Laser*, 2022, vol. 41, no. 6, pp. 363-373, doi: 10050086.2022.06.46.
7. D. Bairagi, "Bi-Keeper Arrangement with Isolated Contention Stage Technique for Domino Logic based Low Power High Fan-in OR Gates," *JOURNAL OF OPTOELECTRONICS LASER*, 2022, vol. 41, no. 5, pp. 7-19, doi: 10050086.2022.05.2.
8. D. Bairagi, "Grid-Connected Transformer-less Inverters for Photovoltaic Systems: Analysis and Control," *Journal of Optoelectronics Laser*, 2022, vol. 41, no. 6, pp. 363-373, doi: 10050086.2022.06.46.
9. R. Gupta, "Customization and Adaptability of DH-Notated Robotic Arms in Specialty Food Production," *International Journal on food and nutritional sciences*, 2022.

#### Year: 2023

1. U. Dewangan, "A systematic review on cotton plant disease detection & classification using machine & deep learning approach," *IDICAIEI 2023*, IEEE, 2023, vol. 1, pp. 1-6.

2. A. R. Vaishnav, "Broadband Wide Angle Polarization Conversion using Metasurface," *CG Journal of Science and Technology*, 2023.
3. A. R. Vaishnav, "Energy-efficient smart wearable IoT device for the application of collapse motion detection and alert," *IETE Journal of Research*, Taylor & Francis, 2023, vol. 69, no. 2, pp. 1133-1139, doi: <https://doi.org/10.1080/03772063.2020.1859952>.
4. R. Gupta, "A System and a method for neutralization of Nuclear Bombs using Ultra- High Energy Neutrino Beam, The Patent Office Journal No. 2023/01208, 2023.

#### **Year: 2024**

1. U. Dewangan, "Cotton plant disease detection using advanced deep learning algorithms," *International Conference on Advanced Communication and Intelligent System*, Springer, 2024.
2. U. Dewangan, "Key Board Assistant Device with Gesture Control Interface," *Patent*, The Patent Office, GOI, Patent Design No. 419117-001, 2024.
3. D. Bairagi, "AN AUTOMATIC SYSTEM FOR BRAIN TUMOUR DETECTION USING DEEP LEARNING TECHNIQUES," *Patent*, The Patent Office Journal No. 10/2024, 2024.
4. D. Bairagi, "Smart shopping trolley with shopping application," *International Journal for Research in Applied Science & Engineering Technology*, 2024, vol. 12, no. 4, pp. 5457-5463.
5. D. Bairagi, "Helping Hands for handicaps," *International Journal for Research in Applied Science & Engineering Technology*, 2024, vol. 12, no. 5, pp. 817-826.
6. D. Bairagi, "Cotton plant disease detection using advanced deep learning algorithms," *International Conference on Advanced Communication and Intelligent System*, Springer, 2024.
7. S. Yadav, "Cotton plant disease detection using advanced deep learning algorithms," *International Conference on Advanced Communication and Intelligent System*, Springer, 2024.
8. S. Yadav, "AN AUTOMATIC SYSTEM FOR BRAIN TUMOUR DETECTION USING DEEP LEARNING TECHNIQUES," *Patent*, The Patent Office Journal No. 10/2024, 2024.

#### **Year: 2025**

1. U. Dewangan, "DESIGN AND IMPLEMENTATION OF SRAM ARCHITECTURE FOR MULTISTAGE RING OSCILLATOR PUF AND READ-CURRENT DISCHARGE-BASED PUF," *International Journal of Applied Mathematics*, IJAM, 2025, vol. 38, pp. 249-269, doi: <https://doi.org/10.12732/ijam.v38i1s.16>.

2. U. Dewangan, "Illumination-invariant Morphology-aware Dual-branch Segmentation with CNN Feature Fusion for Robust Cotton Weed Classification," *International Journal of Intelligent Engineering and Systems*, INASS, 2025, vol. 18, no. 11, pp. 431-449, doi: <https://doi.org/10.22266/ijies2025.1231.27>.
3. A. R. Vaishnav, "A SYSTEM FOR POLARIZATION CONVERSION OF ELECTROMAGNETIC WAVES," *Patent*, The Patent Office Journal, 2025.
4. A. R. Vaishnav, "A RECONFIGURABLE FREQUENCY SELECTIVE SURFACE (RISS) SYSTEM FOR DUAL-BAND MULTIFUNCTIONAL OPERATION," *Patent*, The Patent Office Journal, 2025.
5. S. Singh, "Design of a compact triple-band frequency-tunable hexagonal grapheme antenna for THz devices using LSTNet-MOBO framework," *International Conference on computational intelligence and network systems (CINC 2025)*, 2025.
6. R. Gupta, "Design of a compact triple-band frequency-tunable hexagonal grapheme antenna for THz devices using LSTNet-MOBO framework," *International Conference on computational intelligence and network systems (CINC 2025)*, 2025.