

Publications

- [1] C. M. Bhatia, M. S. Rao, P. Kumar, and A. S. S. Ba-Thunya, 'Design Development and Fabrication of MA818 Controller for Three Phase 10kVA Voltage Source PWM Transistorised Inverter', *IETE Technical Review*, vol. 11, no. 5–6, pp. 341–346, 1994.
- [2] C. M. Bhatia, M. S. Rao, P. Kumar, and A. Khare, *Microprocessor based closed loop laboratory model for Rapid Impedance Control as applied to Flexible AC Transmission System (FACTS)*. 1995.
- [3] C. M. Bhatia, M. S. Rao, P. Kumar, and A. Khare, 'Intelligent computer control of flexible AC transmission system (FACTS)', *IETE Journal of Research*, vol. 41, no. 2, pp. 135–141, 1995.
- [4] P. Kumar, P. R. Sharma, and A. Kumar, *Power Factor Correction Based on RISC Controller*. Springer Berlin Heidelberg Berlin, Heidelberg, 2011.
- [5] P. Kumar, P. R. Sharma, and A. Kumar, 'Simulation & Design Of Power Factor Correction Prototype For Bldc Motor Control', *European Scientific Journal*, vol. 9, no. 12, 2013.
- [6] P. Rani, M. K. Arti, P. K. Dimri, and M. Vashishath, *Pilot based space-time transmission scheme for large MIMO system*. IEEE, 2019.
- [7] V. Singh, S. Kumar, and P. K. Dimri, 'Comparative study of XPM-induced crosstalk due to 3OD parameter in SCM-WDM transmission system', *Optik*, vol. 186, pp. 177–181, 2019.
- [8] P. Dimri, 'Naveen Kumar Rahul Raj Choudhary', *Computing*, pp. 84–91, 1999.
- [9] N. Kumar, P. Kumar, and M. Sharma, *Switchable Multiband Reconfigurable CPW-Fed Multiband Monopole Antenna for GSM1900/LTE2600/WiMAX Wireless Applications*. IEEE, 2019.
- [10] V. Yadav, L. Kumar, and P. Kumar, *Evolution and development of wireless communication system*. IEEE, 2019.
- [11] M. Sharma, R. Chawla, and P. Kumar, 'Comparative Analysis of Perturb & Observe and Incremental & Conductance MPPT Algorithms', *Journal of Electronic Design Technology*, vol. 9, no. 2, pp. 7–13, 2018.
- [12] N. Kumar, P. Kumar, and M. Sharma, 'Reconfigurable antenna and performance optimization approach', *Wireless Personal Communications*, vol. 112, pp. 2187–2212, 2020.
- [13] N. Kumar, P. Kumar, and M. Sharma, *Integrated Bluetooth UWB Antenna with Reconfigurable Characteristics including rejection of Dual Interfering Bands using Parasitic Elements Backed Plane for Wireless Applications*. IEEE, 2019.
- [14] N. Kumar, P. Kumar, and M. Sharma, *Compact Dual Notched Band Monopole Antenna And Analysis in Frequency/Time Domain for UWB Wireless Applications*. IEEE, 2019.
- [15] V. Singh, S. Kumar, and P. K. Dimri, 'Performance evaluation of SCM–WDM–HAN communication link using millimeter waves in the presence of XPM', *Optik*, vol. 209, p. 164580, 2020.
- [16] N. Kumar, P. Kumar, and M. Sharma, *Reconfigurable Minitaurized Multiband Antennas For UMTS, WiMAX, WLAN & Downlink Satellite System Wireless Applications*. IEEE, 2019.
- [17] L. Kumar and P. Kumar, *Production Process Smoothening and Elimination of Bottleneck*, vol. 804. IOP Publishing, 2020.

- [18] N. Kumar, P. Kumar, and M. Sharma, *Superwideband dual notched band square monopole MIMO antenna for UWB/X/Ku band wireless applications*. IEEE, 2019.
- [19] N. Kumar, P. Kumar, and M. Sharma, *High Rejection Plus Shape Radiating Patch Triple Notched UWB/X Band Reconfigurable Monopole Antenna for Imaging and Close Range Radar Applications*. IEEE, 2020.
- [20] B. E. Pradeep Kumar, M. Tech, P. R. Sharma, and A. Kumar, 'SIMULATION & DESIGN OF POWER FACTOR CORRECTION PROTOTYPE FOR BLDC MOTOR CONTROL'.
- [21] A. Mk, P. Rani, P. K. Dimri, and M. Vashishath, 'Beamforming and combining for multi-user large MIMO communication system', *IET Communications*, vol. 14, no. 19, pp. 3334–3339, 2020.
- [22] V. Singh, S. Kumar, and P. K. Dimri, 'Comparative analysis of XPM induced crosstalk due to 4OD coefficient in SCM-WDM link', *Optik*, vol. 241, p. 166924, 2021.
- [23] L. Kumar, Pooja, and P. Kumar, *Amazon EC2:(Elastic Compute Cloud) Overview*. Springer Singapore, 2021.
- [24] L. Kumar and P. Kumar, 'BITA-Based Secure and Energy-Efficient Multi-Hop Routing in IoT-WSN', *Cybernetics and Systems*, vol. 54, no. 6, pp. 809–835, 2023.
- [25] R. Gupta, A. Kumar, V. Rohilla, P. Kumar, M. Kumar, and D. Kumar, 'Noise spectroscopy based numerical modelling of chemisorption on SnO₂ surface for CO gas sensing applications', *Micro and Nanostructures*, vol. 171, p. 207423, 2022.
- [26] P. Rani, M. K. Arti, and P. K. Dimri, *Capacity for Space Time Data Transmission Scheme in colocated massive MIMO*. IEEE, 2022.
- [27] P. Rani, A. Mk, and P. K. Dimri, 'Channel estimation and detection with space–time transmission scheme in colocated multiple-input and multiple-output system', *ETRI Journal*, 2023.
- [28] L. Kumar and P. Kumar, 'Enhance LEACH Protocol Based on Energy Utilization for Wireless Sensor Network', *Solid State Technology*, vol. 63, no. 6, pp. 19112–19117, 2020.
- [29] L. Kumar and P. Kumar, *Webcam based Secure Surveillance system for the smart agriculture using Raspberry pi*. IEEE, 2022.
- [30] L. Kumar and P. Kumar, *Printed Circuit Board Profiling for Assembly using Thermal Image*. IEEE, 2023.
- [31] L. Kumar and P. Kumar, *Home Appliances Automation Using IPv6 Transmission Over BLE*. Springer, 2023.
- [32] R. Gupta, A. Kumar, M. Kumar, P. Kumar, and D. Kumar, *Numerical Modelling of Cu₂O-Based Gas Sensor for Detection of Volatile Organic Compounds in Human Breath*. Springer, 2022.
- [33] L. Kumar and P. Kumar, 'Home Appliances Automation Using IPv6 Transmission Over BLE Check for updates', *ICT with Intelligent Applications: ICTIS 2023, Volume 1*, vol. 719, p. 193, 2023.
- [34] R. Gupta, P. Kumar, and D. Kumar, 'Deep Neural Network Based Modelling of Chemisorption Process on Surface of Oxide Based Gas Sensors: DNN BASED MODELLING OF CHEMISORPTION PROCESS FOR GAS SENSORS', *Journal of Scientific & Industrial Research (JSIR)*, vol. 82, no. 11, pp. 1143–1151, 2023.

- [35] N. Kumar, R. R. Choudhary, and P. Dimri, 'Performance Enhancement by Splitting ALU in Error Resilient Low Cost Processors', *International Journal of Computer Applications*, vol. 97, no. 19, 2014.
- [36] P. Mavi, A. Arora, and P. Dimri, 'Designing of a Digital Signal Processor for DC to DC Power Converters'.
- [37] R. Gupta, P. Kumar, and D. Kumar, 'Deep Neural Network Based Modelling of Chemisorption Process on Surface of Oxide Based Gas Sensors', 2023.
- [38] P. Mavi, A. Arora, and P. Dimri, 'A Novel isolated Bi-directional DC-DC converter for Renewable energy storage systems'.
- [39] P. Mavi, A. Arora, and P. Dimri, 'Designing and Implementation of Bidirectional DC-DC Converter for Battery Based Electric Drives System', *International Journal of Emerging Research in Management & Technology*, vol. 3, no. II, 2014.
- [40] P. Kumar and M. Dabas, 'Simulation of Closed Loop Controlled PFC Boost Converter fed DC Drive with Reduced Harmonics and Unity Power Factor'.
- [41] J. Dabass, P. Dimiri, and M. D. Kadyan, 'INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY ADAPTIVE SCHMITT TRIGGER BASED ON OTA DRIVEN BY DIFFERENTIAL INPUT VOLTAGE FOR SETTING QUIESCENT HYSTERESIS AND COMPENSATING AMPLIFIER OFFSET'.
- [42] J. Dabass and P. Dimiri, 'INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY PROPOSED SRAM CELL USING LOW POWER SCHMITT TRIGGER IN SUB-THRESHOLD REGION WHICH ADAPTS ITS OWN THRESHOLD'.
- [43] M. Dhillon and P. Dimri, 'Design of Metamaterials in HFSS and Extraction of Permittivity and Permeability using NRW Method', *Int. J. Electron. Electr. Comput. Syst*, vol. 4, pp. 38–43, 2015.
- [44] L. Kumar and P. Kumar, *WSAN Emerging Technology for IoT*. IEEE, 2023.