

Academic Session (2023-2024)

International/National Journals

1. **Pavan Kumar Shukla**, Neelesh Kumar Gupta, Achyuta Nand Mishra, Sharmila, Apranjali Singh, Chetan Barde, “**Wide Angle Metamaterial Absorber for S, C and X Band Application**”, De Gruyter, Frequenz, November 2023, <https://doi.org/10.1515/freq-2022-0283> (SCI).
2. Vivek Kumar, Hitesh Singh, Kumud Saxena, **Vinod M Kapse**, Boncho Bonev, Ramjee Prasad, “**Smart Channel Modelling for Rain Attenuation Using ML for Designing of 6G Networks at D and G Bands**”, Wireless Personal Communications, Volume 132, Issue 3, pp. 2069-2096, IF-2.2, Electronic ISSN: 1572-834X, Print ISSN: 0929-6212, 30 Aug 2023 <https://doi.org/10.1007/s11277-023-10701-z> (SCI).
3. Vivek Kumar Mahendra Kumar Shukla, Somit Pratap Singh, **Vinod M Kapse**, “**Design and Analysis of Pressure Vessel with Counter Flow Limpet System for Variable Thermal Loads**”, International Journal of Innovative Science and Research Technology, Volume 8, Issue 8, pp. 2874- 2885, ISSN No:-2456-2165, IF-7.176, <https://doi.org/10.5281/zenodo.10377138> (Peer Reviewed).
4. **Roop Singh, Pavan Kumar Shukla**, Tarun Kumar, **Vinod M Kapse**, “**Robust Medical Image Watermarking in Frequency Domain**”, International Journal of Electrical and Electronics Research (IJEER), Volume 11, Issue 3, Pages 859-865, e-ISSN: 2347-470X, 28 September 2023, <https://doi.org/10.37391/ijeer.110333> (SCOPUS).
5. Mayur Agarwal, Shagufta Khan, **Amit Kumar**, Preeti Verma, Sunil Dubey, Bishakh Paul, “**An Overview of Prospects and Problems for Conventional Electric Machines and Drives for the Wind Power Generation**”, Proceedings on Engineering Sciences, Volume 5, Special Issue 1, pp. 163-172, ISSN: 2620-2832 e-ISSN: 2683-4111, July 2023, <https://pesjournal.net/paper.php?id=412>, (SCOPUS).
6. Prabhat Kumar Srivastava, Ezhilarasan G., Divya Paikaray, Sakshi Singh, Manish Srivastava, **Anshu Kumar**, “**Hybrid AC/MT-HVDC Transmission Lines and its Effective Operation using Enhanced Fish- Swarm Optimizer**”, Proceedings on

Engineering Sciences, Volume 5, Special Issue 1, pp. 119-126, ISSN: 2620-2832
e-ISSN: 2683-4111, July 2023, <https://pesjournal.net/paper.php?id=407>, (SCOPUS).

7. Akash Kumar Bhagat, Prashant Kumar, Pawan Bhambu, **Pandey V. K.**, Om Prakash, Raghu N., “**Deep Learning-Based Intrusion Detection and Prevention in Wireless Communications**”, Proceedings on Engineering Sciences, Volume 5, Special Issue 1, pp. 103-110, ISSN: 2620-2832
e-ISSN: 2683-4111, July 2023, <https://pesjournal.net/paper.php?id=405>, (SCOPUS).
8. Kishore Kumar P, Alka Kumari, Pradeep Kumar Verma, Mohit Kumar Sharma, **Vinod M Kapse**, Lokesh Varshney, “**Non-Orthogonal Signal-Based Optical Communication Systems using Fuzzy Learning for Interference Cancellation**”, Proceedings on Engineering Sciences, Volume 5, Special Issue 1, pp. 111-118, ISSN: 2620-2832
e-ISSN: 2683-4111, July 2023, <https://pesjournal.net/paper.php?id=406>, (SCOPUS).
9. Preeti Verma, Sashilal Singh M., Ravi Angadi V., Garima Goswami, Gnana Jeba Das, **Kanika Jindal**, “**Transforming Transmission System Development from Reactive to Proactive through Electric Vehicle Flexibility**”, Proceedings on Engineering Sciences, Volume 5, Special Issue 1, pp. 137-146, ISSN: 2620-2832
e-ISSN: 2683-4111, July 2023, <https://pesjournal.net/paper.php?id=409>, (SCOPUS).
10. Mohhammad Rashid Ansari, **Mona Devi**, Sunny Verma, Sashilal Singh, Joshi Manohar V, Shubhendra Pratap Singh, “**Smart Grid Energy Production and Transmission System Modeling and Assessment Computational Methods**”, Proceedings on Engineering Sciences, Volume 5, Special Issue 1, pp. 155-162, ISSN: 2620-2832
e-ISSN: 2683-4111, July 2023, <https://pesjournal.net/paper.php?id=411>, (SCOPUS).
11. **Vinod Mansiram Kapse**, Jayachandran A., Bharti Sharma, Abhilash Kumar Saxena, “**Categorizing Sentinel-2 Images Based on Binary-Weighted VGG-16 Network**” International Journal of Intelligent Systems and Applications in Engineering, Volume 11 No. 8S, pp. 434-439, ISSN: 2147-6799, July 2023, <https://ijisae.org/index.php/IJISAE/article/view/3071>, (SCOPUS).

12. Ankita Agarwal, **Dr. Vinod Mansiram Kapse**, Febin Prakash, “**Impact of Bovine on the Threat of Transmitted by Viruses Illness on Humans: Review**”, Revista electrónica de Veterinaria, Vol 24, No. 3, pp. 212-224, ISSN 1695-7504, November 2023, <https://www.veterinaria.org/index.php/REDVET/article/view/411/203>, (SCOPUS).
13. P.B. Mane, Sanjay Bhilegaonkar, **Dhananjay Singh**, “**Design and Performance Evaluation of Cavity-Backed SIW Antenna for Monopulse Applications**”, International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 11 Issue 10, pp. 1917-1923, <https://doi.org/10.17762/ijritcc.v11i10.8782> (SCOPUS).
14. Mohd. Sazid, **Niraj Agrawal**, Mangey Ram Nagar, N.S. Raghava, Anil Kumar Gautam, A.N. Ghazali, “**A Compact, Flexible and Transparent UWB Bandpass Filter with Silver Nanowires**”, International Journal of Electronics and Communications (AEU), Volume 167, 154673, July 2023, <https://doi.org/10.1016/j.aeue.2023.154673> (SCI)
15. Sarabjeet Kaur, Bharti Chaurasiya, Mohd Sazid, Navaid Zafar Rizvi, “**A Dual Band Compact Circularly Polarized Antenna for GPS Applications**”, Microwave and Optical Technology Letters, Volume 65, Issue 11, Pages 2963-2971, November 2023, <https://doi.org/10.1002/mop.33811> (SCI).
16. Usha Kiran, Poonam Maurya, **Himanshu Sharma**, “**Investigating Routing Protocol Attacks on Low Power and Lossy IoT Networks**”, SN Computer Science, Volume 5, article number 393, 04 April 2024, <https://doi.org/10.1007/s42979-024-02747-y> (SCOPUS)
17. Anushka, **Himanshu Sharma**, **Vinod M. Kapse**, Veena Grover, Renuka Sharma, “**Wireless Phone Charging**”, NIET Journal of Engineering & Technology (NIETJET), Volume 12, Issue 1, ISSN: 2229-5828, Dec. 2023.

National/International Conference:

1. Rishu, Laxman Singh, Pavan Kumar Shukla, Kanika Jindal, “**Computer-Aided Diagnosis for Breast Cancer Classification Using Deep Learning**”, 6th International Conference on Contemporary Computing and Informatics (IC3I), 14-16 September 2023, Electronic ISBN: 979-8-3503-0448-0 Print on Demand(PoD) ISBN: 979-8-3503-0449-7, [10.1109/IC3I59117.2023.10397674](https://doi.org/10.1109/IC3I59117.2023.10397674)
2. Sameer Raj, Shomya Kumari, Juhi Singh, **Himanshu Sharma**, Mandeep Kaur Arora, “**Breast Cancer Detection Using IoT and ML**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
3. Sanjeev Kumar, **Kanika Jindal**, Pavan Kumar Shukla, “**Evolving Paradigms in Low-Power Adder Architectures for VLSI: A MOSFET and Advanced Transistor Technologies Perspective**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
4. Mukesh Kumar, **Kanika Jindal**, Pavan Kumar Shukla, “**Comparative Performance Analysis of Low Power SRAM Cell Architectures**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
5. **Sarabjeet Kaur**, Mayank Kumar, Deependra Singh, Kriti Raj, “**Advance Personal Chatbot for Comprehensive Support**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
6. **Prasanna Kumar Singh**, Rahul Bhardhwaj, Richa Pal, Sonal Kumar Gupta, “**Design A System for Analysing Network Traffic**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
7. **Nidhi Sharma**, Himanshu Pandita, Konark Dubey, Abhinav Dubey, Dhavak Singh, “**IoT Based Air Pollution Monitoring System**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
8. **Pavan Kumar Shukla**, Piyush Singh, Deepak Chander, Shobhna Kumari, “**Development of An Indian Cubesat for IR Imaging and Sensor Data Transmission**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.

9. **Pavan Kumar Shukla**, Aaditya Ranjan, Aalok Kumar, Utsav Addy, “**IoT and Machine Learning Based Early Landslide Detection and Warning System**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
10. Aradhana Yadav, Archit Singh, Abhay Kumar Singh, **Nidhi Sharma**, “**IoT and ML Based Smart Irrigation System**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
11. Adnan Aadil, Avanish Singh, Gautam Kushwaha, **Shikha Singh**, “**Cloud Based Smart Pantry System Using IoT**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
12. Ritesh Kumar Gaur, Amisha Patel, Kanak Gupta, **Anshu Kumar**, “**Fault Detection in PCN Using AI**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
13. Tushar Chaudhary, Smita Kumari, Sambhavi Dixit, **Swarnima**, “**Smart Home Automation System Using Internet of Things**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
14. Mansi Pandey, Saumya Singh, Vikash Kumar, Pranav Kumar, **Dheeraj Tripathi**, “**Object Detection Using Various Machine Learning and Deep Learning Technique**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
15. Nishit Kumar, Ravi Ranjan, Sachin Singh, **Purnima Pal**, “**EMG-Based Prosthetic Arm**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
16. **Ashutosh Singh**, Shashank Singh, Aashutosh Mishra, Arya Singh, “**Seizure Detection Using Hybrid Technology**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.

17. Abhishek Kumar, Anurag Rathore, Ayush Kumar, **Arnab Panda**, “**IoT Based Automatic Vehicle Accident Detection and Tracking System**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
18. Nikhil Gautam, Md. Mojahid, Krishna Murari, **Mohd Sazid**, “**Design Home Security Using Artificial Intelligence**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
19. Krishana Keshav, Manish Kumar, Sahil Ranjan, **Mohammad Raza**, “**Design and Implementation of Multi-Tasking Surveillance Rover Using IoT**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
20. Anuradha Singh, **Dr. Himanshu Sharma**, Ankur Chaudhary, Dr. Mandeep Kaur Arora, “**Effectiveness of LLAMA-2 in Addressing Career Development Needs: A Comprehensive Review**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
21. **Vijay K Pandey**, Vikas K Mishra, Upender Kumar, Shivam S Kushwaha, “**AI Smart Home Security Using IoT**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
22. Nitesh Kumar Bairwa, Sandhya Umrao, Garima Jain, **Himanshu Sharma**, “**A Comprehensive Survey of 6G-V2X Communication in UAVs**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
23. Ved Prakash Jha, Naveen, Karan Tiwari, **Khushboo**, “**Home Security Using IoT**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
24. Anushka, Swati Soni, **Himanshu Sharma**, **Dr. Vinod M Kapse**, Veena Grover, Renuka Sharma, “**Wideband Antenna Design for 5G Communication**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
25. Shivam Kumar, Vivek Gupta, Indrajeet Kumar Singh, Vivek Raj, **Devendra Pratap**, “**Design and Implementation of Unmanned Aerial Smart Photography Using Flying**

Robot”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.

26. Shaina, Rohit Munjal, Renu Devi, Sachin Chawla, **Himanshu Sharma**, “**Review Paper on Smart Farming Using IoT**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.

27. **Neha**, Kartik Chandra, Abhishek Tiwari, Hemant Kaushik, Ayush Sharma, “**Design and Analysis of Microstrip Patch Antenna: P Shaped**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.

28. Poornima Tyagi, Pragya Singh, Ibrar Ahmed, Neetu Kumari Rajput, Anamika Srivastava, Vaishali Sisaudia, **Himanshu Sharma**, “**Investigating Features for Lung Cancer Classification Using Machine Learning**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.

29. Arpit Raj, **Dhananjay Singh**, Nikhil Ojha, Md. Farhan Khan, “**Multiple Object Recognition Using CNN and Python**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.

30. **Niraj Agrawal**, Vaidhyam Gautam, Khushi Chaudhary, Saket Mishra, Satyarthi, “**Design and Analysis of Efficient Low Noise Amplifier with CMOS**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.

31. Mohd Kaif, Maitrei Ranjan, Ritik Kuntal, **Pradumn Kumar Gupta**, Anjana Bhardwaj, “**Smart Home with Google Assistant and Alexa NODEMCU**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.

32. Ashish Kumar, **Himanshu Sharma**, Ankur Chaudhary, Mandeep Kaur Arora, “**A Review of Syndicate Lending Practices: Harnessing the Power of LLAMA 2 for Effective Loan Syndication**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.

33. Rohit Gaund, Pragati Kumar, Sahil Khan, **Kanika Jindal**, “**Design and Implementation of 4-Bit Digital Calculator Using HDL on FPGA**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
34. **Anshuman Singh**, Ankur Kumar Singh, Himanshu Tiwari, Dhiranjay Kumar, “**Compare and Design an Intelligent and Smart Waste Management Solution**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
35. **Amit Kumar**, Shikher Saxena, Ayush Sharma, Sonam Chauhan, “**Solar Water Pump Controller Based on Internet of Things (IoT)**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
36. Ankit Mishra, Amit Kumar Singh, Chirag Sharma, **Amit Kumar Yadav**, “**Design & Implementation of Child Care System Using IoT**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
37. Neelesh Kumar Gupta, Animesh Yadav, Achyuta Nand Mishra, Zatin Gupta, **Vinod M Kapse**, “**K-Means Algorithm and Deep Neural Network Complexity Analysis for Real-Time Data**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
38. Ravina Rai, **Pavan Kumar Shukla**, Mirtunjay Kumar, “**Review of Hybrid Adders in Low Power VLSI**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
39. **Himanshu Yadav**, Sudhanshu Ranjan, Vaibhav Singh, Suraj Kumar, “**Optical Character Recognition Using Python**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
40. Prianka Bharati, **Dhananjay Singh**, **Anshuman Singh**, “**Design an Area Efficient MBIST Architecture Using the Mixed Algorithm in Verilog**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.

41. Abhishek Srivastava, **Vinod M Kapse**, Zatin Gupta, Neelesh Kumar Gupta, Amit Kumar Bindal, “**Evaluating Big Data and Healthcare Analytics for Resource Management via Multiple Regression Analysis**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
42. Manpreet Kaur, Jaspreet Singh, **Dr. Himanshu Sharma**, “**Challenges in Applying AI Techniques in WSN for Network Lifetime Optimization – A Review**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
43. Akshat Joshi, **Vinod M. Kapse**, Anjana Bhardwaj, Dr. Atma Prakash Singh, **Pavan Kumar Shukla**, “**Design and Performance Optimization of Electrostatically Doped Vertical Nanowire Field Effect Transistors Using Gate Stacking Technique**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
44. **Dr. Vinod M. Kapse, Dr. Pavan Kumar Shukla**, “**Design & Fabrication of Low Cost SDR for Military Applications**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
45. **Dr. Vinod M. Kapse**, “**Precision Diagnosis of Brain Tumors: An Overview of Advanced Machine Learning Techniques**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.
46. **Dr. Vinod M. Kapse, Dr. Pavan Kumar Shukla**, “**Design a System for Analyzing Network Traffic**”, 1st International Conference (Hybrid) Applications of AI in 5G and IoT (ICAAI5GI2024), May 2024.