

## Academic Session (2022-2023)

### International/National Journals

1. Chitvan Gupta, **Laxman Singh**, Rajdev Tiwari, “**Malicious Node Detection in Vehicular Ad-hoc Network (VANET) using Enhanced Beacon Trust Management with Clustering Protocol (EBTM-CP)**”, Wireless Personal Communications, Volume 130, pp. 321–346, IF-2.2, Electronic ISSN: 1572-834X Print ISSN: 0929-6212, March 2023, <https://doi.org/10.1007/s11277-023-10287-6> (SCI)
2. **Shilpee Patil**, Alka Verma, Anil Kumar Singh, Binod Kumar Kanaujia, Suresh Kumar, “**A Low-Profile Circularly Polarized Microstrip Antenna Using Elliptical Electromagnetic Band Gap Structure**”, International Journal of Microwave and Wireless Technologies, Volume 14 Issue 8, pp. 1009 - 1018, 1759-0787 (Print), 1759-0795 (Online), IF-1.4 10, Oct 2022, <https://doi.org/10.1017/S1759078721001367> (SCIE).
3. Surya Prakash Sharma, **Laxman Singh**, Rajdev Tiwari, “**Integrated Feature Engineering Based Deep Learning Model for Predicting Customer’s Review Helpfulness**”, Journal of Intelligent & Fuzzy Systems, vol. 44, no. 6, pp. 8851-8868, IF-2, ISSN 1064-1246 (P) ISSN 1875-8967 (E), June 2023, [10.3233/JIFS-223546](https://doi.org/10.3233/JIFS-223546) (SCI)
4. Jay Kant Pratap Singh Yadav, **Laxman Singh**, Zainul Abidin Jaffery, “**Optimization of Hopfield Neural Network (HNN) using Multiconnection and Lyapunov Energy Function (LEF) for Storage and Recall of Handwritten Images**” Sadhana , Springer, Feb 2023, <https://doi.org/10.1007/s12046-023-02083-6> (SCIE)
5. Rajeev Kumar, **Laxman Singh**, Rajdev Tiwari “**Novel Reinforcement Learning Guided Enhanced Variable Weight Grey Wolf Optimization (RLV-GWO) Algorithm for Multi-UAV Path Planning**”, Wireless Personal Communications, Volume 131, pages 2093–2123, IF-2.2, Electronic ISSN: 1572-834X Print ISSN: 0929-6212, 12 June 2023, <https://doi.org/10.1007/s11277-023-10534-w> (SCIE).

6. Deepkiran Munjal, **Laxman Singh**, Mrinal Pandey, Sachin Lakra, “**A Systematic Review on the Detection and Classification of Plant Diseases Using Machine Learning**”, International Journal of Software Innovation Volume 11, Issue 1, pp. 1-25, IF-0.6, ISSN: 2166-7160, EISSN: 2166-7179, Jan 2023, [10.4018/IJSI.315657](https://doi.org/10.4018/IJSI.315657) (SCOPUS)
7. Surya Prakash Sharma, **Laxman Singh**, Rajdev Tiwari, “**Prediction of Customer Review’s Helpfulness Based on Feature Engineering Driven Deep Learning Model**”, International Journal of Software Innovation Volume 11, Issue 1, pp. 1-25, IF-0.6, ISSN: 2166-7160, EISSN: 2166-7179, Jan 2023, [10.4018/IJSI.315734](https://doi.org/10.4018/IJSI.315734) (SCOPUS)
8. Manoj Diwakar, Pradeep Kumar, Prabhishkek Singh, Amrendra Tripathi, **Laxman Singh**, “**An Efficient Reversible Data Hiding Using SVD Over A Novel Weighted Iterative Anisotropic Total Variation Based Denoised Medical Images**”, Biomedical Signal Processing and Control 82, Article: 104563, pp. 1-10, IF-5.1, Online ISSN: 1746-8108 Print ISSN: 1746-8094, December 2022, <https://doi.org/10.1016/j.bspc.2022.104563> (SCI)
9. Kalyanapu Srinivas, **Laxman Singh**, Subba Reddy Chavva, Bhasker Dappuri, Saravanan Chandrasekaran, Shamimul Qamar, “**Multi-Modal Cyber Security Based Object Detection by Classification Using Deep Learning and Background Suppression Techniques**”, Computers and Electrical Engineering, Volume 103 Article 108333, Online ISSN: 1879-0755, Print ISSN: 0045-7906 IF-4.3, 08 Sept 2022, <https://doi.org/10.1016/j.compeleceng.2022.108333> (SCIE)
10. Chitvan Gupta, **Laxman Singh**, Rajdev Tiwari, “**Wormhole Attack Detection Techniques in Ad-Hoc Network: A Systematic Review**”, Open Computer Science, Volume 12 Issue 1, pp. 260-288, ISSN: 2299-1093 IF-1.5, Aug 2022, [10.1515/comp-2022-0245](https://doi.org/10.1515/comp-2022-0245) (SCOPUS)
11. M. Ramanan, **Laxman Singh**, A. Suresh Kumar, A. Suresh, A. Sampath kumar, Vishal Jain, Nebojsa Bacanin, “**Secure Blockchain Enabled Cyber- Physical Health Systems Using Ensemble Convolution Neural Network Classification**”, Computers & Electrical Engineering, Volume 101, Article 108058, Online ISSN: 1879-0755, Print

ISSN: 0045-7906, IF-4.3, July 2022.  
<https://doi.org/10.1016/j.compeleceng.2022.108058> (SCIE)

12. Vinay Mohan, Niraj Agrawal, A. K. Gautam, V. M. Kapse, Md. Sazid, N. Z. Rizvi, "Enabling Highly - Efficient OLED with Solution - Processed Nanocrystalline Copper Phthalocyanine Hole - Injection/Transport Layer", Semiconductor Science and Technology, Volume 37 Number 9, Aug - 2022 [10.1088/1361-6641/ac6cff](https://doi.org/10.1088/1361-6641/ac6cff) (SCI)
13. Neelesh Kumar Gupta, Pavan Kumar Shukla, Pushplata, "A Wideband Metamaterial Linear to Linear Conversion for X-Band Applications", International Journal of Microwave and Wireless Technologies, Cambridge University Press, Volume 15 Issue 4, pp. 581 – 590, ISSN: 1759-0787 (Print), 1759-0795 (Online), IF-1.4, May 2023, <https://doi.org/10.1017/S1759078722000903> (SCIE)
14. Shilpee Patil, Alka Verma, Anil Kumar Pandey, Amit Kumar Kesarwani, V. K. Pandey, Vinod M. Kapse, "A Wideband and Wide Axial Ratio Bandwidth Circularly Polarized Antenna Loaded with Circular Ring Slot", Journal of Microwaves, Optoelectronics and Electromagnetic Applications, Vol. 21, No. 4, ISSN online version: 2179-1074, November 2022, <https://doi.org/10.1590/2179-10742022v21i4264867> (SCOPUS)
15. Srishti Kumari, Swati Singh, Rajneesh Kumar Singh, V. K. Pandey, Dinesh Kumar Singh, S. Pratap Singh, M. Lakshmanan, "Performance Investigation of Molecular Nano Communication Over Channels Under Dynamic Scenarios", Wireless Personal Communications, Volume 131, pages 471–488, IF-2.2, Electronic ISSN: 1572-834X Print ISSN: 0929-6212, 19 April 2023. <https://doi.org/10.1007/s11277-023-10440-1> (SCIE)
16. Ghanshyam Singh, Sachin Kumar, Ajay Abrol, Binod Kumar Kanaujia, Vijay Kumar Pandey, Mohamed Marey, Hala Mostafa, "Frequency Reconfigurable Quad-Element MIMO Antenna with Improved Isolation for 5G Systems", Electronics, Volume 12 Issue 1, IF-2.9, ISSN: 2079-9292, 5 Feb 2023, <https://doi.org/10.3390/electronics12040796> (SCIE)

17. **Surya Deo Choudhary, Shilpee Patil, Alka Verma, Md Irshad Alam, Vinod M. Kapse, Binod Kumar Kanaujia**, “**Design of Dual-Polarized Triple-Band Concentric Annular-Ring Microstrip Patch Antenna for GPS Applications**”, International Journal of Microwave and Wireless Technologies, Volume 14 Issue 10, pp. 1338 – 1346, ISSN: 1759-0787 (Print), 1759-0795 (Online), IF-1.4, January 2022, <https://doi.org/10.1017/S1759078721001756> (SCIE)
18. **Hitesh Singh, Vivek Kumar, Kumud Saxena, Vinod M Kapse, Boncho Bonev, Ramjee Prasad**, “**Smart Channel Modelling for Cloud and Fog Attenuation Using ML for Designing of 6G Networks at D and G Bands**”, Wireless Personal Communications, Volume 129, pages 1669–1692, IF-2.2, 04 March 2023, <https://doi.org/10.1007/s11277-023-10201-0> (SCI).
19. **Vivek Kumar, Hitesh Singh, Kumud Saxena, Vinod M Kapse, Ramjee Prasad**, “**A Journey from Traditional to Machine Learnig of Radio Wave Attenuation Caused by Rain: A State of Art**”, Wireless Personal Communications, Volume 125, Issue 4, pp. 3261-3285, IF-2.2, Electronic ISSN: 1572-834X Print ISSN: 0929-6212, August 2022, <https://doi.org/10.1007/s11277-022-09709-8> (SCI).
20. **Vivek Kumar, Hitesh Singh, Kumud Saxena, Vinod M Kapse, Ramjee Prasad**, “**Radio Wave Attenuation due to Clouds from Traditional Models to ML Models—A State of Art**”, Wireless Personal Communications, Volume 125, Issue 4, pp. 3287-3309, IF-2.2, Electronic ISSN: 1572-834X Print ISSN: 0929-6212, August 2022, <https://doi.org/10.1007/s11277-022-09710-1> (SCI).
21. **Shudhanshu Ranjan, Shashank Singh, Dhananjay Singh, Anshuman Singh, Pavan Kumar Shukla, Vinod M Kapse**, “**Smart Dustbin using Arduino Nano**”, NIET Journal of Engineering & Technology (NIETJET), Volume 10, Issue summer 2022, pp. 24-26, ISSN: 2229-5828 (Print), [https://www.researchgate.net/profile/Niet-Nietjet/publication/366530786\\_SMART\\_DUSTBIN\\_USING\\_ARDUINO\\_NANO/link/s/63a58413a03100368a200cb1/SMART-DUSTBIN-USING-ARDUINO-NANO.pdf](https://www.researchgate.net/profile/Niet-Nietjet/publication/366530786_SMART_DUSTBIN_USING_ARDUINO_NANO/link/s/63a58413a03100368a200cb1/SMART-DUSTBIN-USING-ARDUINO-NANO.pdf) (NIET Journal)

22. Aalok Kumar, Piyush Singh, Abhay Kumar Singh, Akansha, Shikher Saxena, **Dhananjay Singh, Anshuman Singh, Pavan Kumar Shukla, Vinod M Kapse**, “**Design and Implementation of Automatic Fire Sensing and Fire Extinguishing Robot using IoT**”, NIET Journal of Engineering & Technology (NIETJET), Volume 10, Issue summer 2022, pp. 12-17, ISSN: 2229-5828 (Print), [https://www.researchgate.net/profile/Niet-Nietjet/publication/366531156\\_Design\\_and\\_Implementation\\_of\\_Automatic\\_Fire\\_Sensing\\_and\\_Fire\\_Extinguishing\\_Robot\\_using\\_IoT/links/63a583aac3c99660eb99c6bf/Design-and-Implementation-of-Automatic-Fire-Sensing-and-Fire-Extinguishing-Robot-using-IoT.pdf](https://www.researchgate.net/profile/Niet-Nietjet/publication/366531156_Design_and_Implementation_of_Automatic_Fire_Sensing_and_Fire_Extinguishing_Robot_using_IoT/links/63a583aac3c99660eb99c6bf/Design-and-Implementation-of-Automatic-Fire-Sensing-and-Fire-Extinguishing-Robot-using-IoT.pdf)
23. Mohd Shayan, Priyanshu Gairola, Nitin Pawar, Keshav Sharma, **Anshuman Singh, Dhananjay Singh, Pavan Kumar Shukla, Vinod M Kapse**, “**Design & Analysis Various Basic Logic Gates Using Quantum Dot Cellular Automata (QCA)**”, NIET Journal of Engineering & Technology (NIETJET), Volume 10, Issue summer 2022, pp. 5-11, ISSN: 2229-5828 (Print), [https://www.researchgate.net/profile/Niet-Nietjet/publication/366531023\\_Design\\_analysis\\_various\\_basic\\_logic\\_gates\\_usingQuantum\\_Dot\\_Cellular\\_Automata\\_QCA/links/63a5833d097c7832ca5bbf5c/Design-analysis-various-basic-logic-gates-usingQuantum-Dot-Cellular-Automata-QCA.pdf](https://www.researchgate.net/profile/Niet-Nietjet/publication/366531023_Design_analysis_various_basic_logic_gates_usingQuantum_Dot_Cellular_Automata_QCA/links/63a5833d097c7832ca5bbf5c/Design-analysis-various-basic-logic-gates-usingQuantum-Dot-Cellular-Automata-QCA.pdf)
24. **Niraj Agrawal, Anil Kumar Gautam, Karumudi Rambabu**, “**Design and Analysis of Broadband Circularly Polarized Compact Planar Antennas for 2.45 GHz RFID Handheld Reader Applications**”, International Journal of Microwave and Wireless Technologies, Cambridge University Press, Volume 15 Issue 5, pp. 764 – 771, November 2022, <https://doi.org/10.1017/S1759078722001118> (SCI).

### International/National Conference

1. Mohit Singh, Pavan Kumar Shukla, “**Modelling and Simulation of High Frequency Antenna with Amplifier**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
2. Atharva Tyagi, Nisha, “**Review of Advanced Agricultural Activity Monitoring system based on IoT**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
3. Sambhav Jain, Swarnima, “**Road Lane-Lines Detection in Real-Time for Advanced Driving Assistance Systems**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
4. Nidhi Sharma, M. Shekainah, Arnav Kamboj, Sambit Thumb, Ankit Kumar, “**Design and implementation of IOT based smart mirror**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
5. Ashutosh Tiwari, Pradumn Kumar Gupta, “**Design and Analysis of wideband MIMO Antenna Array for 5G Smartphone Applications**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
6. Ankit Raj, Dr. Prasanna Kumar Singh, “**Design and Analysis of Broadband Microstrip Patch Antenna**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
7. Tushar Kant, Khushboo, “**Design and Implementation of Smart Health Monitoring System**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
8. Prakash Narayan Singh, Manish Kumar, “**Design and Implementation of Gesture Controlled Music System**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.

9. Yatender Singh, **Amit Kumar**, “**Design and Implementation of IoT Water Pollution RC Boat**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
10. Shivam Yadav, **Ravi Pandey**, “**Real-Time Image Based Attendance System Using**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
11. Harsh Sharma, **Himanshu Yadav**, “**Text Recognition in Images and Converting Recognized Text to Speech**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
12. Archit Tripathi, **Devendra Pratap**, “**Automated Detection of Skin Cancer Using Deep Learning Technique**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
13. Akshit Malhotra, Ankit Kumar Parasar, Shubham Srivastava, Shubham Chaturvedi, **Neha, Himanshu Yadav**, “**Design of Slotted E-shaped Microstrip Antenna for Wireless Health Applications**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
14. Keshav sharma, **Sarabjeet Kaur**, “**Metamaterial-Based Patch Antenna Design with High Performance and Gain Enhancement**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
15. Chirag Rastogi, **Dr. Prasanna Kumar Singh**, “**Design and Simulation of Microstrip Patch Antenna Array for RFID System**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
16. Ankit Kumar, **Dr. V.K. Pandey**, “**Design and Simulation of C Shaped Microstrip Antenna**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
17. Pawan Kumar, **Md. Raza**, “**Review Paper on Microstrip Patch Antenna**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.

18. Divesh Shahi, **Shikha Singh**, “**IoT Virtual Doctor Robot with IV Bag Monitoring and Alert System**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
19. Shubham Pandey, **Anshu Kumar**, “**Design and Analysis of Car Prediction Model**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
20. Anurag, **Dheeraj Tripathi**, “**Bandwidth Enhancement of Microstrip Patch Antenna Using IE3D Software**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
21. Dhruv Kumar Jha, **Dr. Dhananjay Singh**, “**Design of Multitasking Robot**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
22. Naveen kumar, **Dr. Kumod Kumar Gupta**, “**Design of Multimodality Imaging System using Machine Learning**”, International Conference on Emerging Technologies and Innovations, March 1 - 2, 2023.
23. **Garima Shukla**, Arju Malik, Paramanand Sharma, Dolly Sharma, “**A Survey: Improvement of QoS Via Load Balancing Approach in Parallel Distributed System**”, 2nd International Conference on “Advancement in Electronics & Communication Engineering, 27 Jul 2022, <http://dx.doi.org/10.2139/ssrn.4174041>
24. Aradhna Saini; Gaurav Dhuriya; Sofia K Pillai; **Garima Shukla**; Urvashi Agrawal; Hemant Kasana, “**Impact of Internet of Things (IoT) in Healthcare: Challenges and Application**”, 3rd International Conference on Electronics and Sustainable Communication Systems (ICESC) IEEE, **Electronic ISBN: 978-1-6654-7971-4 DVD ISBN: 978-1-6654-7970-7 Print on Demand (PoD) ISBN: 978-1-6654-7972-1**, 17-19 Aug. 2022, [10.1109/ICESC54411.2022.9885404](https://doi.org/10.1109/ICESC54411.2022.9885404)
25. Achyutan Mishra, **Pavan Kumar Shukla**, Neelesh Kumar Gupta, Ankur Sharma, Rajesh Singh, “**Smart Energy Monitoring using Internet of Things: Opportunity and Challenges**”, 3rd International Conference on Pervasive computing



and social networking (ICPCSN 2023) IEEE, **Electronic ISBN: 979-8-3503-2284-2**  
**Print on Demand (PoD) ISBN: 979-8-3503-2285-9**, June 19 - 20, 2023,  
[10.1109/ICPCSN58827.2023.00196](https://doi.org/10.1109/ICPCSN58827.2023.00196)

26. **Pavan Kumar Shukla**, Sharmila, Apranjali Singh, Nilofar Shaikh, Ankur Sharma, Rajesh Singh, “**Air Pollution Monitoring by Indulging AI and IOT for Environmental Protection**”, 3rd International Conference on Pervasive computing and social networking (ICPCSN 2023) IEEE, **Electronic ISBN: 979-8-3503-2284-2** **Print on Demand (PoD) ISBN: 979-8-3503-2285-9**, June 19 - 20, 2023,  
[10.1109/ICPCSN58827.2023.00197](https://doi.org/10.1109/ICPCSN58827.2023.00197)

27. **Pavan Kumar Shukla**, Apranjali Singh, Sharmila, Ankur Sharma, Praveen Kumar Malik, Samta Kathuria “**Technological Power Impersonation in MOOC Learning**”, 3rd International Conference on Pervasive computing and social networking (ICPCSN 2023) IEEE, **Electronic ISBN: 979-8-3503-2284-2** **Print on Demand (PoD) ISBN: 979-8-3503-2285-9**, June 19 - 20, 2023, [10.1109/ICPCSN58827.2023.00091](https://doi.org/10.1109/ICPCSN58827.2023.00091)

28. Neelesh Kumar Gupta, Achyutanand Mishra, **Pavan Kumar Shukla**, Ankur Sharma, Shweta Pandey, “**Smart Environment Monitoring using Internet of Things and Big Data**”, 3rd International Conference on Pervasive computing and social networking (ICPCSN 2023) IEEE, **Electronic ISBN: 979-8-3503-2284-2** **Print on Demand (PoD) ISBN: 979-8-3503-2285-9**, June 19 - 20, 2023, [10.1109/ICPCSN58827.2023.00198](https://doi.org/10.1109/ICPCSN58827.2023.00198)

29. Vivek Kumar, Hitesh Singh, Kumud Saxena, Boncho Bonev, Ramjee Prasad, **Vinod M Kapse**, “**Machine Intelligence Method for Rain Classification by Using Signal Strength for Designing of 6G Networks**”, 30th National Conference with International Participation (TELECOM), pp. 1-4, Electronic ISBN:978-1-6654-8212-7, Print on Demand(PoD) ISBN:978-1-6654-8213-4, [10.1109/TELECOM56127.2022.10017308](https://doi.org/10.1109/TELECOM56127.2022.10017308)

30. S Srinivasan, **Ashutosh Kumar Singh**, “**A Comparative Study of Artificial Intelligence and Machine Learning In 5G Innovation**”, International Conference on Futuristic Technologies (INCOFT), Electronic ISBN: 978-1-6654-5046-1 Print on

Demand(PoD)      ISBN:      978-1-6654-5047-8,      November      2022  
[10.1109/INCOFT55651.2022.10094493](https://doi.org/10.1109/INCOFT55651.2022.10094493)

31. **Kanika Jindal**, Vedansh Bhardwaj, Sonu Ray, Umar Parvez, Vishal Raj, “**Compare The Performance of Machine Learning Classifiers for Misinformation Detection**”, 5th International Conference on Contemporary Computing and Informatics (IC3I), Page(s): 1284 – 1289, **Electronic ISBN: 979-8-3503-9826-7 Print on Demand(PoD) ISBN: 979-8-3503-9827-4**, December 2022 [10.1109/IC3I56241.2022.10072306](https://doi.org/10.1109/IC3I56241.2022.10072306)