

## Academic Session (2021-2022)

### International/National Journals

1. Altaf Alam, **Laxman Singh**, Zainul Abdin Jaffery, Yogesh Kumar Verma, Manoj Diwakar, “**Distance-Based Confidence Generation and aggregation of classifiers for unstructured road detection**”, Journal of King Saud University – Computer and Information Sciences (Elsevier), Volume 34, Issue 10, Part A, Pages 8727-8738, IF-6.9, Print ISSN: 1319-1578 Online ISSN: 2213-1248, Sept 2021, <https://doi.org/10.1016/j.jksuci.2021.09.020> (SCIE)
2. Gayatri Sakya, Chhaya Dalela, **Laxman Singh**, Anuj Jain, “**Machine Learning Based MAC Protocol Design for Pipeline Leakage Detection in Smart City Project**”, Journal of Discrete Mathematical Sciences and Cryptography, Recent Trends in Network Security and Artificial Intelligence, Volume 24, Issue 5, Pages 1283-1292, Print ISSN: 0972-0529 Online ISSN: 2169-0065, Sept 2021, <https://doi.org/10.1080/09720529.2021.1932915> (SCI)
3. **Laxman Singh**, Altaf Alam, K. Vijay Kumar, Devendra Kumar, Parvendra Kumar, Zainul Abdin Jaffery, “**Design of Thermal Imaging-Based Health Condition Monitoring and Early Fault Detection Technique for Porcelain Insulators Using Machine Learning**” Environmental Technology & Innovation, Volume 24, 102000, Online ISSN: 2352-1864, IF-7.1, November 2021 <https://doi.org/10.1016/j.eti.2021.102000> (SCIE).
4. Prasenjit Das, Jay Kant Pratap Singh Yadav, **Laxman Singh**, “**Deep Learning based Tomato’s Ripe and Unripe Classification System**”, International Journal of Software Innovation, Volume 10, Issue 1, Pages: 20, ISSN: 2166-7160, IF-0.6, March 2022, [10.4018/IJSI.292023](https://doi.org/10.4018/IJSI.292023) (SCOPUS)
5. Manoj Singh Adhikari, Yogesh Kumar Verma, **Laxman Singh**, Manoj Bhatt, “**Analysis of DCTLDMOS on SOI for Power Amplifier Applications**”, Silicon, Springer, Volume 14, Issue 18, Pages: 12349–12356, Electronic ISSN 1876-9918, Print ISSN 1876-990X, IF-3.4, May 2022, <https://doi.org/10.1007/s12633-022-01938-7> (SCIE).

6. J Dafni Rose, K Vijaya Kumar, **Laxman Singh**, Sudhir Kumar Sharma, “**Computer-Aided Diagnosis for Breast Cancer Detection and Classification Using Optimal Region Growing Segmentation with Mobilenet Model**”, Concurrent Engineering (Sage Publication), Volume 30, Issue 2, pp. 181–189, ISSN: 1063-293X Online ISSN: 1531-2003, April 2022, <https://doi.org/10.1177/1063293X221080518> (SCIE).
7. **Laxman Singh**, Altaf Alam, “**An Efficient Hybrid Methodology for an Early Detection of Breast Cancer in Digital Mammograms**”, Journal of Ambient Intelligence and Humanized Computing, May 2022, Springer <https://doi.org/10.1007/s12652-022-03895-w> (SCIE).
8. M. Ramanan, **Laxman Singh**, A. Suresh Kumar, A. Suresh, A. Sampathkumar, Vishal Jain, Nebojsa Bacanin, “**Secure Blockchain Enabled Cyber- Physical Health Systems Using Ensemble Convolution Neural Network Classification**”, Computers and Electrical Engineering, (Elsevier), Volume 101, 108058, Online ISSN: 1879-0755 Print ISSN: 0045-7906 IF-4.3, May 2022 <https://doi.org/10.1016/j.compeleceng.2022.108058> (SCIE).
9. Anju Mishra, **Laxman Singh**, Mrinal Pandey, Sachin Lakra, “**Image Based Early Detection of Diabetic Retinopathy: A Systematic Review on Artificial Intelligence (AI) Based Recent Trends and Approaches**”, Journal of Intelligent & Fuzzy Systems, vol. 43, Issue 5, pp. 6709-6741, ISSN 1064-1246 (P) ISSN 1875-8967 (E), IF-2 June 2022 <https://doi.org/10.18280/ts.390232> (SCIE).
10. Jay Kant Pratap Singh Yadav, **Laxman Singh**, Zainul Abdin Jaffrey, “**A Robust Automatic Fingerprint Recognition System Using Multi-Connection Hopfield Neural Network**”, Traitement du Signal, Volume 39 Issue 2, pp.683-694, ISSN: 0765-0019 (print); 1958-5608 (online), IF-1.9, April 2022 <https://doi.org/10.18280/ts.390232> (SCIE).
11. Raj Kumar Goel, Chandra Shekhar Yadav, Shweta Vishnoi, **Laxman Singh**, Praveen Pachauri, “**Team Cognition Approach in Agile Software Development**”, Journal of Engineering Science and Technical Review, Volume 14, Issue 4, pp. 18 – 25, ISSN: 1791-2377, Sept 2021,

<http://www.jestr.org/downloads/Volume14Issue4/fulltext31442021.pdf> (SCOPUS)

12. Jay Yadav, **Laxman Singh**, Zainul Abdin Jaffery, “**Optimization of Hopfield Neural Network for Improved Pattern Recall and Storage using Hamming Distance and Lyapunov Energy Function**”, International Journal of Fuzzy System Applications, Vol. 11 Issue 2, ISSN: 2156-177X EISSN: 2156-1761 May 2022 [10.4018/IJFSA.296592](https://doi.org/10.4018/IJFSA.296592) (SCOPUS)
13. Jugal Kishore Bhandari, Yogesh Kumar Verma, **Laxman Singh**, Santosh Kumar Gupta, “**A Novel Design of High-Performance Hybrid Multiplier**”, Journal of Circuits, Systems and Computers, Vol. 31, No. 15, 2250268, ISSN (print): 0218-1266 ISSN (online): 1793-6454 IF-1.5 June 2022 <https://doi.org/10.1142/S0218126622502681> (SCIE).
14. **Shilpee Patil**, Anil Kumar Singh, **Vijay Kumar Pandey**, Binod Kumar Kanaujia, Anil Kumar Pandey, “**A Simple and Compact Broadband Circularly Polarized Circular Slot Antenna for WLAN/Wimax/DBS Applications**”, Frequenz –Berlin, Volume 76 Issue 3-4, pages: 209-219, ISSN: 2191-6349 IF-1.1, Oct 2021. <https://doi.org/10.1515/freq-2021-0118> (SCIE).
15. Sonal Gupta, **Shilpee Patil**, Chhaya Dalela and Binod Kumar Kanaujia, “**Circularly Polarized Parasitic Patch Slot Antenna Using I-Tree Fractal Defected Ground Structure for CA Band Applications**”, DE GRUYTER, Frequenz, Volume 76 Issue 7-8, pages: 409-419, ISSN: 2191-6349 IF-1.1, March 24, 2022, <https://doi.org/10.1515/freq-2021-0199> (SCIE)
16. Mohit Sharma, Himanshu Chauhan, Harsh Rakesh Yadav, Jatin Kumar, **Nidhi Sharma**, “**Home Automation System Using Zigbee Protocol**”, International Journal of Advances in Engineering and Management (IJAEM), Volume 3, Issue 7 July 2021, pp: 389-392, ISSN: 2395-5252 IF-7.429, [10.35629/5252-030710621065](https://doi.org/10.35629/5252-030710621065) (SCOPUS)
17. S. Kamilya, Y.P Singh, Y.V Tyagi, Y.Singh, **Nidhi Sharma**, “**Design and Implementation of Auto Intensity Controlling System For Home Automation Applications Using IoT**”, EPRA International Journal of Research and Development

(IJRD), Volume: 7, Issue: 5, pp: 212-215, ISSN: 2455-7838, IF-1.241, May 2022,  
<https://doi.org/10.36713/epra10273> (PEER - REVIEWED)

18.S. Kamilya, Y.P Singh, Y.V Tyagi, Y.Singh, Nidhi Sharma, “**Design and Implementation of Auto (Light) Intensity Controlling System Using IoT and Without IoT**”, EPRA International Journal of Multidisciplinary Research (IJMR), Volume: 8, Issue: 4, ISSN: 2455-3662, IF-1.188 April 2022,  
<https://doi.org/10.36713/epra9854> (PEER - REVIEWED)

19.Ghanshyam Singh, Sachin Kumar, Binod Kumar, Kanaujia, Vijay Kumar, Pandey, “**Design and Implementation of a Compact Tri – Band Four – Port Multiple – Output Antenna**”, International Journal of RF and Microwave Computer Aided Engineering, Vol. 32 Issue 8, Online ISSN:1099-047X Print ISSN:1096-4290, IF-1.7, May 2022, <https://doi.org/10.1002/mmce.23218> (SCI).

20.Ghanshyam Singh, Sachin Kumar, Binod Kumar, Kanaujia, Vijay Kumar, Pandey, “**Design and Performance Analysis of a Frequency Recognition Four – Element Multiple – Input – Multiple – Output Antenna**”, AEU – International Journal of Electronics and Communications, Vol. 146 Issue 1, 154118, Print ISSN: 1434-8411 Online ISSN: 1618-0399 IF-3.2, March – 2022  
<https://doi.org/10.1016/j.aeue.2022.154118> (SCI)

21.Hritik Sharma, Mansi Neolia, Jyoti Baisoya, Nidhi, Dr. Pavan Kumar Shukla" A **Review Paper on Design of Graphene Based DRA**", International Journal of Multidisciplinary Innovative Research, Volume 2, Number 2, pp. 44-49. ISSN: 2583-0228, Apr 2022  
[https://ijmir.org/doc/papers05no\\_sforijmirvol\\_2no\\_2apr2022/Paper%206\\_Jyoti.pdf](https://ijmir.org/doc/papers05no_sforijmirvol_2no_2apr2022/Paper%206_Jyoti.pdf) (SCOPUS)

22.Shilpee Patil, Vinod Kapse, Shruti Sharma, Anil Kumar Pandey, “**Low Profile Wideband Dual-Ring Slot Antenna for Biomedical Applications**”, Proceedings of Engineering and Technology Innovation, vol. 19, pp. 38-44,  
<https://doi.org/10.46604/peti.2021.7790> (SCOPUS).

23. Raman Batra, **Vinod Kapse**, Harsh Awasthi, Amit Yadav, Rajnish Kumar, “**Occupational Health Hazards for Employees in the Leather Industry**”, European Economic Letters, Vol 11, Issue 1, pp. 26-32, ISSN 2323-5233, December 2021, <https://eelet.org.uk/index.php/journal/article/view/280/236>, (PEER REVIEWED)
24. **Vinod M Kapse**, Niyati Shukla, Narendra Pratap Singh, Smita Singh, Swarupanjali Padhi, “**Coal Mining: A Study on the Health and Safety Assessment of Worker in India**”, European Economic Letters, Vol 12, Issue 1, pp. 23-31, ISSN 2323-5233, June 2021, <https://www.eelet.org.uk/index.php/journal/article/view/287/243>, (PEER REVIEWED)
25. Raman Batra, **Vinod Kapse**, Amit Yadav, Simran Kaur, “**Entrepreneur’s Organization: A Systematic Analysis of Job Stress Arises on Employees**”, European Economic Letters, Vol 11, Issue 1, pp. 33-41, ISSN 2323-5233, December 2021, <https://eelet.org.uk/index.php/journal/article/view/281/237>, (PEER REVIEWED)

### International/National Conference

1. Nidhi Agnihotri, Prabhat Biswal, Prateek Raj, Kamalakar Srivastava, **Dhananjay Singh, Mona Devi**, “**Review Paper on Technologies Used for Social Distance Monitoring and Prevention of COVID-19 Transmission**”, National Conference on Advanced Research Trends in Engineering (NCARTE-25-26 March 2022).
2. Nidhi Agnihotri, Prabhat Biswal, Prateek raj, Kamalakar Srivastava, **Mona Devi**, “**Design and Implementation of Social Distancing Monitoring Robot with Face Mask and Temperature detection using IoT and its Applications**”, International Conference on The Emerging Technologies in Computing (ICETC-24-25 February 2022).
3. **Garima Shukla**, Ketan Gupta, Rahul Singh, Aviral Devgan, Amarjeet Yash, **Laxman Singh**, “**Understanding the Mechanism of Some Important Heterostructures for Optoelectronic Application**”, International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES) IEEE Conference, Electronic ISBN:978-1-6654-8004-8 Print on Demand(PoD) ISBN: 978-1-6654-8005-5 May 2022, [10.1109/CISES54857.2022.9844326](https://doi.org/10.1109/CISES54857.2022.9844326)



4. Ojasvi Asthana, Pankaj Bhakuni, Prashansa Srivastava, Satyabrat Singh, **Kanika Jindal**, “**Sign Language Recognition Based on Gesture Recognition/Holistic Features Recognition: A Review of Techniques**”, 2nd International Conference on Innovative Practices in Technology and Management (ICIPTM) IEEE Conference, Electronic ISBN: 978-1-6654-6643-1 Print on Demand (PoD) ISBN: 978-1-6654-6644-8, Feb 2022 [10.1109/ICIPTM54933.2022.9754140](https://doi.org/10.1109/ICIPTM54933.2022.9754140).
5. **Nidhi Sharma**, “**Design a High-Speed, Low Power Mac Unit for DSP Applications Using Verilog**”, AECE-2022 conference, May 2022.
6. **Nidhi Sharma**, “**Design and Implementation of High Speed Low Power Mac Unit with Proposed Mixed Adder for the DSP Applications**”, 4th International conference on computing and communication- (IC3 3rd and 4th June 2022).
7. Himani Sharma, **Nidhi Sharma**, **Surya Deo Choudhary**, “**Designing Adiabatic Techniques for Logic Circuits.**”, International Conference of Modern Electronics devices and communication systems (MEDCOM-Oct – 2021).
8. Rishabh Khanna, Divyanshi Srivastava, Priya Mishra, Sugandh Kumar, **Dhananjay Singh**, **Anshuman Singh**, **Pavan Kumar Shukla**, **Vinod M Kapse**, B Mohapatra, “**Design of Dual Slot Microstrip Antenna for Wireless Application**”, 3rd International Conference on Intelligent Engineering and Management (ICIEM), IEEE, pp. 1-4, Electronic ISBN:978-1-6654-6756-8, Print on Demand(PoD) ISBN:978-1-6654-6757-5, April 2022, [10.1109/ICIEM54221.2022.9853201](https://doi.org/10.1109/ICIEM54221.2022.9853201).
9. Preeti Arora, Vinod M Kapse, Sapna Sinha, Saksham Gera, “**An analytical study for Pneumonia Detection towards building an intelligent system using Image Data Generator**”, 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)(ICRITO), IEEE, **Electronic ISBN:978-1-6654-1703-7, CD:978-1-6654-1702-0, Print on Demand(PoD) ISBN:978-1-6654-1704-4**, [10.1109/ICRITO51393.2021.9596434](https://doi.org/10.1109/ICRITO51393.2021.9596434)
10. Preeti Arora, Saksham Gera, **Vinod M Kapse**, “**Diagnosis of Lung segmentation for Chest X Ray images using XGBoost**”, 9th International Conference on Reliability,

Infocom Technologies and Optimization (Trends and Future Directions)(ICRITO), IEEE, Electronic ISBN:978-1-6654-1703-7, CD:978-1-6654-1702-0, Print on Demand(PoD) ISBN:978-1-6654-1704-4, [10.1109/ICRITO51393.2021.9596557](https://doi.org/10.1109/ICRITO51393.2021.9596557).

11. Hitesh Singh, Vivek Kumar, Kumud Saxena, Boncho G Bonev, Ramjee Prasad, **Vinod M Kapse**, “**Computational Intelligent method for Cloud Layer Classification using Millimeter Wave Technology for Designing of 6G Network**”, 57th International Scientific Conference on Information, Communication and Energy Systems and Technologies (ICEST), IEEE, pp. 1-3, Electronic ISBN:978-1-6654-8500-5, Print on Demand(PoD) ISBN:978-1-6654-8501-2, June 2022, [10.1109/ICEST55168.2022.9828677](https://doi.org/10.1109/ICEST55168.2022.9828677).
12. Preeti Arora, **Vinod M Kapse**, Sapna Sinha, Saksham Gera, “**Number Plate Recognition System Using Convolutional Neural Network**”, 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)(ICRITO), IEEE, pp. 1-5, **Electronic ISBN:978-1-6654-1703-7, CD:978-1-6654-1702-0, Print on Demand(PoD) ISBN:978-1-6654-1704-4**, September 2021, [10.1109/ICRITO51393.2021.9596134](https://doi.org/10.1109/ICRITO51393.2021.9596134)
13. Saher Jawaid Ansari, **Priyanka Verma**, **Surya Deo Chaudhary**, “**High Performance Wallace Tree Multiplier Design using Novel 8-4 Compressor Implementation for Image Processing**”, Proceedings of First International Conference on Computational Electronics for Wireless Communications ICCWC (Springer), 03 January 2022, [10.1109/ICACCCN51052.2020.9362889](https://doi.org/10.1109/ICACCCN51052.2020.9362889)