

## List of Publications

### SCI/SCI-E Index Journals

- Nandanwar, H., & Katarya, R. (2026). Alpha-Net: A dependable and trustworthy deep learning framework for securing industrial internet of things networks against botnet attacks. *Computers and Electrical Engineering*, 131, 110919.
- Nandanwar, H., & Katarya, R. (2025). Secure and Privacy-Preserving Data Sharing in 6G-Enabled Blockchain IoT Healthcare Systems. *Security and Privacy*, 8(6), e70105.
- Nandanwar, H., & Katarya, R. (2025). Privacy-preserving data sharing in blockchain-enabled IoT healthcare management system. *The Computer Journal*, 68(11), 1657-1681.
- Nandanwar, H., & Katarya, R. (2025). Optimized intrusion detection and secure data management in IoT networks using GAO-Xgboost and ECC-integrated blockchain framework. *Knowledge and Information Systems*, 67(10), 9531-9586.
- Nandanwar, H., & Katarya, R. (2025). A hybrid blockchain-based framework for securing intrusion detection systems in internet of things. *Cluster Computing*, 28(7), 471.
- Nandanwar, H., & Katarya, R. (2025). Securing Industry 5.0: An explainable deep learning model for intrusion detection in cyber-physical systems. *Computers and Electrical Engineering*, 123, 110161.
- Nandanwar, H., & Katarya, R. (2024). Deep learning enabled intrusion detection system for Industrial IOT environment. *Expert Systems with Applications*, 249, 123808.
- Nandanwar, H., & Katarya, R. (2024). TL-BILSTM IoT: transfer learning model for prediction of intrusion detection system in IoT environment. *International Journal of Information Security*, 23(2), 1251-1277.

### Scopus Index Conferences

- Kumar, H., Kumar, H., Nandanwar, H., & Katarya, R. (2025, June). Enhancing security and scalability of IoMT systems using blockchain: addressing key challenges and limitations. In 6th International Conference on Deep Learning, Artificial Intelligence and Robotics (ICDLAIR 2024) (pp. 191-202). Atlantis Press.
- Saxena, A., Nandanwar, H., & Katarya, R. (2025, April). Advancing Intrusion Detection Systems for IoT: Techniques, Challenges, and Future Directions. In 2025 4th International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE) (pp. 1-8). IEEE.
- Yeswanth, A. V. S., Nandanwar, H., Sharma, K., & Chauhan, A. (2023, November). A data-driven: Design, modeling analytics approach for smart IoT based air pollution monitoring system. In 2023 Second International Conference on Informatics (ICI) (pp. 1-9). IEEE.
- Kauhsik, B., Nandanwar, H., & Katarya, R. (2023, October). Iot security: A deep learning-based approach for intrusion detection and prevention. In 2023 International Conference on Evolutionary Algorithms and Soft Computing Techniques (EASCT) (pp. 1-7). IEEE.

- Nandanwar, H., & Katarya, R. (2023, March). A systematic literature review: approach toward blockchain future research trends. In 2023 International Conference on Device Intelligence, Computing and Communication Technologies,(DICCT) (pp. 259-264). IEEE.
- Kohli, V., Nandanwar, H., & Katarya, R. (2023). Cracking the Figurative Code: A Survey of Metaphor Detection Techniques. *Data Science and Intelligent Computing Techniques*, 347-359.
- Singh, A., Nandanwar, H., & Chauhan, A. (2022, September). Simulation tools and testbeds for internet of things (iot):“comparative insight”. In 2022 Second International Conference on Computer Science, Engineering and Applications (ICCSEA) (pp. 1-7). IEEE.
- Sharma, K., Anand, H., Nandanwar, H., & Chauhan, A. (2022, January). Taxonomy of routing protocols. In 2022 International Conference for Advancement in Technology (ICONAT) (pp. 1-14). IEEE.
- Nandanwar, H., & Chauhan, A. (2021, October). Comparative study of impact of covid-19 lockdown on aqi parameters across urban india. In 2021 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) (pp. 1-6). IEEE.
- Nandanwar, H., & Chauhan, A. (2021, August). Iot based smart environment monitoring systems: a key to smart and clean urban living spaces. In 2021 Asian Conference on Innovation in Technology (ASIANCON) (pp. 1-9). IEEE.
- Nandanwar, H., Chauhan, A., Pahl, D., & Meena, H. (2020, July). A survey of application of ML and data mining techniques for smart irrigation system. In 2020 second international conference on inventive research in computing applications (ICIRCA) (pp. 205-212). IEEE.
- Meena, H., Nandanwar, H., Pahl, D., & Chauhan, A. (2020, July). IoT based perceptive monitoring and controlling an automated irrigation system. In 2020 11th International conference on computing, communication and networking technologies (ICCCNT) (pp. 1-6). IEEE.