

LIST OF PUBLICATIONS

Journal Articles(SCI/SCIE/Scopus):

1. Pushpak Shukla, Jitendra Kumar, Shailendra Shukla "UE Localization and UAV-BS Placement via GPR-Aided RSSI-TOA Fusion With a Lightweight Q-Learning Controller", IEEE Networking Letters, 2025.
2. Uma, K. M., and Shailendra Shukla. "Energy and performance-aware workflow scheduler using dynamic virtual network resource optimization under edge-cloud platform." Computers and Electrical Engineering 123 (2025): 110085 [Elsevier, I.F: 4.9].
3. Shukla, Pushpak, Shailendra Shukla, and Amit Kumar Singh. "Trajectory-Prediction Techniques for Unmanned Aerial Vehicles (UAVs): A Comprehensive Survey." IEEE Communications Surveys & Tutorials (2024).[IEEE, I.F: 46.7].
4. Singh, Uday, Shailendra Shukla, and Manoj Madhava Gore. "Functional connectivity and graph embedding-based domain adaptation for autism classification from multi-site data." Arabian Journal for Science and Engineering 50.10 (2025): 7389-7408 [Springer, I.F: 2.9].
5. Shukla, Pushpak, and Shailendra Shukla. "Exploring the potential of deep regression model for next-location prediction." Knowledge and Information Systems 66.7 (2024): 4093-4124. [Springer, I.F: 3.1].
6. Singh, Uday, Shailendra Shukla, and Manoj Madhava Gore. "Detection of autism spectrum disorder using multi-scale enhanced graph convolutional network." Cognitive Computation and Systems 6.1-3 (2024): 12-25. [Institution of Engineering and Technology (IET), IF:1.3]
7. Shukla, Shailendra. "Angle based critical nodes detection (ABCND) for reliable industrial wireless sensor networks." Wireless Personal Communications 130.2 (2023): 757-775. [Springer, I.F: 2.2].
8. Sharma, P., Nisha, Shukla, S., Vasudeva, A. (2024). An era of mobile data offloading opportunities: a comprehensive survey. Mobile Networks and Applications, 29(1), 13-28. [Springer, I.F: 3.8].
9. Shukla, Shailendra. "Target node selection for data offloading in partially connected vehicular ad hoc networks." International Journal of Ad Hoc and Ubiquitous Computing 42.2 (2023): 113-123.[inderscience].
10. Shukla, Shailendra. "Reliable critical nodes detection for Internet of Things (IoT)." Wireless Networks 27.4 (2021): 2931-2946.[Springer, I.F: 3]
11. Sharma, Prince, Shailendra Shukla, and Amol Vasudeva. "Data offloading via optimal target set selection in opportunistic networks." Mobile Networks and Applications 26.3 (2021): 1270-1280. [Springer, I.F: 3.8].
12. Sharma, Prince, Shailendra Shukla, and Amol Vasudeva. "Trust-based opportunistic network offloaders for smart agriculture." International Journal of Agricultural and Environmental Information Systems (IJAEIS) 12.1 (2021): 37-54.
13. Rangra, Abhilasha, Vivek Kumar Sehgal, and Shailendra Shukla. "A novel approach of cloud based scheduling using deep-learning approach in E-Commerce domain." International Journal of Information System Modeling and Design (IJISMD) 10.3 (2019): 59-75.

14. Shukla, S., Misra, R., Prasad, A. (2017). Efficient disjoint boundary detection algorithm for surveillance capable WSNs. *Journal of Parallel and Distributed Computing*, 109, 245-257. [Elsevier, I.F: 3.8]
15. Shukla, Shailendra, Rajiv Misra, and Abhishek Agarwal. "Virtual coordinate system using dominating set for GPS-free adhoc networks." *Annals of Telecommunications* 72.3 (2017): 199-208. [Springer, I.F 1.9]
16. Shukla, Shailendra, Nishant Kumar, and Rajiv Misra. "Impact of bloom filter on infection rate in epidemic forwarding for ICNs." *Wireless personal communications* 75.4 (2014): 2165-2180. [Springer, I.F: 2.2]
17. Misra, Rajiv, Shailendra Shukla, and Vivek Chandel. "Lightweight localization using trilateration for sensor networks." *International Journal of Wireless Information Networks* 21.2 (2014): 89-100. [Springer, I.F: 1.2].
18. Shukla, S., Misra, R. "Angle-Based Double Boundary Detection in Wireless Sensor Networks." *Journal of Networks*, 2014.
19. Singh, Uday, Shailendra Shukla, and Manoj Madhava Gore. "A Systematic Survey of Technology Driven Diagnosis for Autism Spectrum Disorder." *SN Computer Science* 6.7 (2025): 870.

Conferences:

1. Uma, K. M., and Shailendra Shukla. "Effective Planning Algorithm for Meeting Parallel Scientific Application Deadline Requirements in Edge-Cloud Platform." 2025 National Conference on Communications (NCC). IEEE, 2025. 31th National Conference on Communications (IIT Delhi)
2. Shukla, Pushpak, and Shailendra Shukla. "Unmanned Aerial Vehicle (UAV) Based Disaster Detection and Crowd Sensing Using Deep Learning Models." Proceedings of the 26th International Conference on Distributed Computing and Networking (ICDCN). 2025. (IIT Hyderabad)
3. Gaur, Samta, J. Sathish Kumar, and Shailendra Shukla. "A Comparative Assessment of CNN-Sigmoid and CNN-SVM model for Forest Fire Detection." 2024 IEEE 9th International Conference for Convergence in Technology (I2CT). IEEE, 2024.
4. Singh, Uday, Shailendra Shukla, and Manoj Madhava Gore. "An improved feature selection algorithm for autism detection." 2022 IEEE 9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON). IEEE, 2022.
5. Sharma, Prince, Shailendra Shukla, and Amol Vasudeva. "Trust-based incentive for mobile offloaders in opportunistic networks." 2020 International Conference on Smart Electronics and Communication (ICOSEC). IEEE, 2020.
6. Shukla, Shailendra, et al. "Defending against increased rank attack on RPL in low-power wireless networks." 2018 Fifth International Conference on Parallel, Distributed and Grid Computing (PDGC). IEEE, 2018.
7. Rangra, Abhilasha, Vivek Kumar Sehgal, and Shailendra Shukla. "Sentiment Analysis of Tweets by Convolution Neural Network with L1 and L2 Regularization." International Conference on Advanced Informatics for Computing Research. Springer Singapore, 2018.

8. Sharma, Prince, and Shailendra Shukla. "Optimal target set selection via opinion dynamics." 2018 Fifth International Conference on Parallel, Distributed and Grid Computing (PDGC). IEEE, 2018.
9. Kumar, Arvind, Rakesh Matam, and Shailendra Shukla. "Impact of packet dropping attacks on RPL." 2016 Fourth International Conference on Parallel, Distributed and Grid Computing (PDGC). IEEE, 2016.
10. Misra, Rajiv, Shailendra Shukla, and Vivek Chandel. "Lightweight Software Model for Target Localization in Wireless Sensor Networks." 2013 IEEE International Conference on Distributed Computing in Sensor Systems. IEEE, 2013.
11. Misra, Rajiv, Shailendra Shukla, and B. M. Baveja. "Vehicular communication via compass labeling." 2011 IEEE Consumer Communications and Networking Conference (CCNC). IEEE, 2011.
12. Misra, Rajiv, and Shailendra Shukla. "Social network aware routing for delay tolerant networks." International Conference on Advances in Computing and Communications. Berlin, Heidelberg: Springer Berlin Heidelberg, 2011..

Books:

1. Saha, Suman, and Shailendra Shukla. *Advanced Data Structures: Theory and Applications*. CRC Press, 2019. **[Textbook]**
2. Shukla, S., Singh, A.K., Srivastava, G. *Internet of Multimedia Things (IoMT): Techniques and Applications*. Elsevier, 2022. **[Editedbook]**
3. Saha, Suman, and Shailendra Shukla. *Algorithms for Smart World Technologies: A Comprehensive Guide to Applications in AI, IoT, and Automation for Electrical and Computer Engineers*. Wiley; 1st edition (in production) (30 June 2026) **[Textbook]**

Chapters Published

- Shailendra Shukla, Asheesh Kumar Mani Tripathi, Amit Kumar Singh (2022). Chapter: *Energy Efficient Data Communication in Internet of Multimedia Things (IoMT)*. In book: *Internet of Multimedia Things (IoMT)*. ISBN: 978-0-323-85845-8. Publisher: Academic Press.