

List of Publications

Journals

1. Sweta A, Kaushik A, Upgraded DV-Hop algorithm based on polynomial approximation [UDV-PA] and multiverse optimization for WSN. Peer-To-Peer Networking and Applications (2026) (Accepted) [Q2]
2. Agrawal, A., Kaushik, A. Localization using Seagull Optimized APIT in 3-Dimensional Wireless Sensor Network. Journal of Supercomputing 81, 1354 (2025). <https://doi.org/10.1007/s11227-025-07812-8> [Q2]
3. Shakya A, Kaushik, A. TAGA-FLEACH: Energy-efficient and secure clustering in WSNs using trust-aware GA-FLEACH with dead-hole monitoring. Ad Hoc Networks, Volume 178, 103990 (2025). <https://doi.org/10.1016/j.adhoc.2025.103990>. [Q1]
4. Tanwar, K. & Kaushik, A. Machine Learning Driven Centroid Localization Algorithm for Wireless Sensor Networks. Peer-To-Peer Networking and Applications 18, 246 (2025). <https://doi.org/10.1007/s12083-025-02026-4> [Q2]
5. Warade, A. & Kaushik, A. Improved 3D DV-Hop Algorithm Using scatteredness Between Beacon nodes for Calculation of the hopsize for Stochastic Wireless sensor Network(2025)Physica Scripta.<https://doi.org/10.1088/1402-2d4896/Ade8b7>[Q2]
6. Verma, R.K., Jain, S. & Kaushik, A. A Comparative Study and Survey of Chain-Based Routing Protocols in Wireless Sensor Networks. Journal of Supercomputing 81, 1076 (2025). <https://doi.org/10.1007/s11227-025-07412-6> [Q2]
7. Mani, V., Kaushik, A. Three-Dimensional DV-Hop Based on Improved Adaptive Differential Evolution Algorithm. Journal of Supercomputing (2024). <https://doi.org/10.1007/s11227-024-06432-Y> [Q2]
8. Kaushik, A., Lobiyal, D.K. & Kumar, S. Improved 3-Dimensional DV-Hop Localization Algorithm based on Information of Nearby Nodes. Wireless networks (2021). <https://doi.org/10.1007/s11276-020-02533-7> [Q2]
9. Kaushik A, Lobiyal D.K., Localization in Mobile Wireless Sensor Networks using Drones. Transactions on Emerging Telecommunication Technologies. 2021; e4213. <https://doi.org/10.1002/ett.4213> [Q2]

Conferences

10. Kaushik A., Lobiyal D.K. (2021) Enhanced Three-Dimensional DV-Hop Algorithm. In: Tuba M., Akashe S., Joshi A. (eds) ICT Systems and Sustainability. Advances in Intelligent Systems and Computing, vol 1270. Springer, Singapore. http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-981-15-8289-9_25
11. Kaushik A, Lobiyal D.K., "Localization in Wireless Sensor Networks using a Mobile Anchor and Subordinate Node". Lecture Notes in Computer Networks, Springer. http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-981-33-6173-7_12 [Q4]
12. Kaushik, Abhinesh. "Multiple Hole Detection in Wireless Underground Sensor Networks." In Communication and Computing Systems: proceedings of the 2nd International Conference on Communication and Computing Systems (ICCCS 2018), December 1-2, 2018, Gurgaon, India, p. 157. CRC Press, 2019. <https://doi.org/10.1201/9780429444272>