

➤ Research Papers in SCI/SCIE/ESCI Indexed Journals (Published): 17

1. Abhay Katiyar, Dinesh Singh, and Rama Shankar Yadav. "Efficient Misbehaviour Detection (EMD) Scheme in Multi-Hop Cluster based VANET." *International Journal of Intelligent Transportation Systems Research* (2025): 1-24. [ESCI, IF: 1.5]
[DOI: <https://doi.org/10.1007/s13177-025-00557-x>]
2. Sushil Kumar Maurya and Dinesh Singh. "Deceptive reviewer group detection using selfadversarial variational autoencoder: a heterogeneous graph-based approach." *Knowledge and Information Systems* (2025): 1-30. [SCIE, IF: 3.1]
[DOI: <https://doi.org/10.1007/s10115-025-02542-y>]
3. Niharika Keshari and **Dinesh Singh**. "TCV-D: An Approach for Path Selection in Vehicular Task Offloading." *Vehicular Communications* 47 (2024): 100770. [SCI, IF: 5.8]
[DOI: <https://doi.org/10.1016/j.vehcom.2024.100770>]
4. Anil Kumar, Dinesh Singh, and Rama Shankar Yadav. "Entropy-based hybrid sampling (EHS) method to handle class overlap in highly imbalanced dataset." *Expert Systems*: e13679. [SCI, IF: 3.0]
[DOI: <https://doi.org/10.1111/exsy.13679>]
5. Anil Kumar, Dinesh Singh, and Rama Shankar Yadav. "Entropy and improved k-nearest neighbor search based under-sampling (ENU) method to handle class overlap in imbalanced datasets." *Concurrency and Computation: Practice and Experience* 36, no. 2 (2024): e7894, Wiley. [SCI, IF: 2.0]
[DOI: <https://doi.org/10.1002/cpe.7894>]
6. Niharika Keshari, and Dinesh Singh. "FMICA: Future Mobility and Imminent Computation-Aware Task Offloading in Vehicular Fog Environment." *Arabian Journal for Science and Engineering* (2023): 1-24, Springer. [SCI, IF: 2.6]
[DOI: <https://doi.org/10.1007/s13369-023-08451-y>]
7. Sushil Kumar Maurya,, Dinesh Singh, and Ashish Kumar Maurya. "Deceptive opinion spam detection using feature reduction techniques." *International Journal of System Assurance Engineering and Management* 15, no. 3 (2024): 1210-1230, Springer. [ESCI, IF: 2.0]
[DOI: <https://doi.org/10.1007/s13198-023-02208-4>]
8. Anil Kumar, Dinesh Singh, and Rama Shankar Yadav. "Class overlap handling methods in imbalanced domain: A comprehensive survey." *Multimedia Tools and Applications* (2024): 1-48, Springer. [SCIE, IF: 3.6]
[DOI: <https://doi.org/10.1007/s11042-023-17864-8>]
9. Niharika Keshari, Dinesh Singh, and Ashish Kumar Maurya. "DoSRT: A Denial-of-Service Resistant Trust Model for VANET." *Cybernetics and Information Technologies* 23, no. 4 (2023): 165-180. [ESCI, IF: 1.2]
[DOI: <https://doi.org/10.2478/cait-2023-004>]
10. **Dinesh Singh**, Ashish Kumar Maurya, Ranvijay, and Rama Shankar Yadav, "A trust-based clustering approach to form stable clusters in vehicular ad hoc networks," *Journal*

of Ambient Intelligence and Humanized Computing, Springer, pp. 1-20, 2022. [IF: 5.1, SCI]
 [DOI:<https://doi.org/10.1007/s12652-022-03842-9>]

11. Niharika Keshari, **Dinesh Singh**, and Ashish Kumar Maurya, “A survey on Vehicular Fog Computing: Current state-of-the-art and future directions,” *Vehicular Communications, Elsevier*, 2022. [IF: 8.373, SCI]
 [DOI:<https://doi.org/10.1016/j.vehcom.2022.100512>]
12. Sushil Kumar Maurya, **Dinesh Singh**, and Ashish Kumar Maurya, “Deceptive Opinion Spam Detection Approaches: A Literature Survey,” *Applied Intelligence, Springer Nature*, pp. 1-46, 2022. [IF: 5.3, SCI]
 [DOI:<https://doi.org/10.1007/s10489-022-03427-1>]
13. Abhay Katiyar, **Dinesh Singh**, and Rama Shankar Yadav, “Advanced multi-hop clustering (AMC) in vehicular ad-hoc network” *Wireless Networks, Springer* 28 (1), 45-68, 2022. [IF: 3.0, SCI]
 [DOI:<https://doi.org/10.1007/s11276-021-02822-9>]
14. **Dinesh Singh**, Ashish Kumar Maurya, Ranvijay, and Rama Shankar Yadav, “CRLMDA: CRL Minimization and Distribution Algorithm in Cluster-based VANETs,” *International Journal of Communication Networks and Distributed Systems, Inderscience*, 2022. [IF: 1.3, ESCI]
 [DOI:<https://doi.org/10.1504/IJCNDS.2023.130565>]
15. Abhay Katiyar, **Dinesh Singh**, Rama Shankar Yadav, “State-of-the-art approach to clustering protocols in VANET- a survey” *Wireless Networks, Springer*, volume 26, number 7, 2020. [IF: 3.0, SCI]
 [DOI:<https://doi.org/10.1007/s11276-020-02392-2>]
16. **Dinesh Singh**, Ranvijay and R. S. Yadav, “IBMDA: Information Based Misbehavior Detection Algorithm for VANET”, *Journal of High Speed Network, IOS Press*, 26(3), pp 185-207, 2020. [IF: 0.9, ESCI]
 [DOI:[10.3233/JHS-200638](https://doi.org/10.3233/JHS-200638)]
17. **Dinesh Singh**, Ranvijay and R. S. Yadav, “A state-of-art approach to misbehavior detection and revocation in VANET: survey”, *International Journal of Ad Hoc and Ubiquitous Computing, Inderscience*, Vol. 28, No. 2, June 2018. [IF: 0.7, SCIE]
 [DOI:<https://doi.org/10.1504/IJAHUC.2018.092653>]

➤ **Research Papers in Scopus-Indexed/International Journals: 06**

1. Sushil Kumar Maurya and **Dinesh Singh**. "Enhancing deceptive reviewer and review detection in e-commerce: analyzing ensemble Attention-based deep learning models." *Multimedia Tools and Applications* (2025): 1-32.
 [DOI: <https://doi.org/10.1007/s11042-025-20922-y>]
2. Ashish Kumar Maurya, AnshulMeena, **Dinesh Singh**, and Vinay Kumar, “An Energy-efficient Scheduling Approach for Memory-intensive Tasks in Multi-core Systems,” *International Journal of Information Technology, Springer* pp.1-9, 2022.
 [DOI:<https://doi.org/10.1007/s41870-022-01042-4>]

3. Ashish K. Maurya, **Dinesh Singh**, and Ajeet Kumar, "Performance Comparison of DSR, OLSR and FSR Routing Protocols in MANET Using Random Waypoint Mobility Model," *International Journal of Information and Electronics Engineering*, Vol.3, No.5, September 2013.
[\[DOI:10.7763/IJIEE.2013.V3.353\]](https://doi.org/10.7763/IJIEE.2013.V3.353)
4. Ashish K. Maurya, Ashish Kumar, and **Dinesh Singh**, "RWP Mobility model based performance evaluation of OLSR and LAR1 routing protocols in MANET," *International Journal of Computer Networks & Communications*, AIRCCSE, Vol. 3, No. 6, pp.145-156, 2011.
[\[DOI:10.5121/ijcnc.2011.3609\]](https://doi.org/10.5121/ijcnc.2011.3609)
5. Ashish K. Maurya, **Dinesh Singh**, "Median Predictor Based Data Compression Algorithm for Wireless Sensor Network," *International Journal of Computer Applications* (0975-8887) Volume 24–No.6, June 2011.
[\[DOI:10.47893/IJSSAN.2011.1014\]](https://doi.org/10.47893/IJSSAN.2011.1014)
6. Ashish K. Maurya, **Dinesh Singh**, "Simulation based Performance Comparison of AODV, FSR and ZRP Routing Protocols in MANET," *International Journal of Computer Applications* (0975–8887) Volume 12–No.2, November 2010.
[\[DOI:10.5120/1651-2220\]](https://doi.org/10.5120/1651-2220)

➤ Research Papers in International Conferences: 14

1. Rahul Yadav and Dinesh Singh. "An Intelligent Hybrid Framework Combining DNN, MCTS, and GNN for Robust Ransomware Detection" 7th International Conference on Machine Learning, Image Processing, Network Security, and Data Science (MIND-2025), December 12–14, 2025, MNIT Jaipur, India.
2. Sushil Kumar Maurya, Sumar Gupta and **Dinesh Singh**. "Exploring Sequential Information in Twitter Spam Detection: A Deep Learning Perspective." 3rd IEEE International Conference on Computer, Electronics, Electrical Engineering and their applications (IC2E3 2025), May 15-16, 2025, NIT Srinagar Garhwal, India.
3. Niharika Keshari, AnchalYadav, and **Dinesh Singh**. "MPS: Multihop Path Selection method for Vehicular Fog Computing." In 2023 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), pp. 720-725. IEEE, 2023.
4. Abhay Katiyar, Nikeet Kumar Keshari, **Dinesh Singh**, and Rama Shankar Yadav. "Location Based Routing in Multi-hop Clustering Based Network Structure of VANET." In 2022 IEEE 11th International Conference on Communication Systems and Network Technologies (CSNT), pp. 415-421. IEEE, 2022.
[\[DOI:10.1109/CSNT54456.2022.9787631\]](https://doi.org/10.1109/CSNT54456.2022.9787631)
5. Niharika Keshari, TejasSubhashchandra Gupta, and **Dinesh Singh**. "Particle Swarm Optimization based Task Offloading in Vehicular Edge Computing." In 2021 IEEE 18th India Council International Conference (INDICON), pp. 1-8. IEEE, 2021.
[\[DOI:10.1109/INDICON52576.2021.9691758\]](https://doi.org/10.1109/INDICON52576.2021.9691758)
6. Abhay katiyar, **Dinesh Singh**, and R.S.Yadav, "A Dynamic Single-hop clustering Algorithm (DSCA) in VANET" 11th International Conference on Computing,

Communication and Networking Technologies (ICCCNT), July 3, 2020, IIT Khargpur, India.

[DOI:[10.1109/ICCCNT49239.2020.9225285](https://doi.org/10.1109/ICCCNT49239.2020.9225285)]

7. Utkarsh Garg, SachinAgarwal, Shubham Gupta, Ravi Dutt, and **Dinesh Singh**. "Prediction of emotions from the audio speech signals using MFCC, MEL and Chroma." In 2020 12th International Conference on Computational Intelligence and Communication Networks (CICN), pp. 87-91. IEEE, 2020.
[DOI:[10.1109/CICN49253.2020.9242635](https://doi.org/10.1109/CICN49253.2020.9242635)]
8. Harshit Kumar and **Dinesh Singh**. "Smart Certificate Revocation List Exchange in VANET." In 2020 12th International Conference on Computational Intelligence and Communication Networks (CICN), pp. 210-214. IEEE, 2020.
[DOI:[10.1109/CICN49253.2020.9242643](https://doi.org/10.1109/CICN49253.2020.9242643)]
9. Ravi Pratap Singh and **Dinesh Singh**, "Trust based Congestion Control Algorithm in VANET", 2nd international Conference on Advanced Informatics for computing Research (ICAICR-2018), July 14-15, 2018, Shimla, India.
[DOI:https://doi.org/10.1007/978-981-13-3143-5_43]
10. **Dinesh Singh**, Ranvijay and R. S. Yadav. "NWCA: A New Weighted Clustering Algorithm to form Stable Cluster in VANET." In Proceedings of the Second International Conference on Information and Communication Technology for Competitive Strategies, p. 20. ACM, 2016.
[DOI:<https://doi.org/10.1145/2905055.2905226>]
11. Alok Kumar, **Dinesh Singh**, Jay Ram Singh, Rupesh Kumar Dewang "Historical Feedback based Misbehaviour Detection (HFMD) Algorithm," 2016 2nd International Conference on Computational Intelligence and Networks (CINE), Bhubaneswar, 2016, Bhubaneswar, Odisha, India.
[DOI:[10.1109/CINE.2016.11](https://doi.org/10.1109/CINE.2016.11)]
12. Jay Ram Singh, **Dinesh Singh**, Alok Kumar, Rupesh Kumar Dewang, "A Single-Hop Based Fast Certificate Revocation Protocol in VANET," 2016 2nd International Conference on Computational Intelligence and Networks (CINE), Bhubaneswar, 2016, Odisha, India.
[DOI:[10.1109/CINE.2016.12](https://doi.org/10.1109/CINE.2016.12)]
13. Ashish k. Maurya, **Dinesh Singh**, Ajeet Kumar, RiteshMaurya, "Random Waypoint Mobility Model based Performance Estimation of On-Demand Routing Protocols in MANET for CBR Applications," 2014 International Conference on Computing for Sustainable Global Development (INDIACoM), IEEE, 2014.
[DOI:[10.1109/IndiaCom.2014.6828080](https://doi.org/10.1109/IndiaCom.2014.6828080)]
14. **Dinesh Singh**, Ashish K. Maurya, Anil K. Sarje, "Comparative Performance Analysis of LANMAR, LAR1, DYMO and ZRP Routing Protocols in MANET using Random Waypoint Mobility Model," Electronics Computer Technology (ICECT), 2011 3rd International Conference on. Vol. 6. IEEE, 2011.
[DOI:[10.1109/ICECTECH.2011.5942051](https://doi.org/10.1109/ICECTECH.2011.5942051)]

➤ **Book Chapters: 02**

1. **Dinesh Singh**, Ashish Kumar Maurya, Rupesh Kumar Dewang, and NiharikaKeshari, “A Review on Internet of Multimedia Things (IoMT) Routing Protocols and Quality of Service,” In: Shukla et al. (eds.), Internet of Multimedia Things (IoMT): Techniques and Applications, Academic Press, Elsevier, Chapter 1, pp. 1-29, 2022. [ISBN: 978-0-323-85845-8]
[DOI:<https://doi.org/10.1016/B978-0-32-385845-8.00006-X>]
2. Ashish Kumar Maurya, and **Dinesh Singh**, “IoT Enabling Platforms,” In: Wiley Editorial (Author), Internet of Things, An Indian Adaptation: Concepts and Applications. Wiley, Chapter 4, pp. 93-122, 2021. [ISBN: 9789354247842]
[\[https://www.wileyindia.com/internet-of-things-an-indian-adaptation-concepts-and-applications.html\]](https://www.wileyindia.com/internet-of-things-an-indian-adaptation-concepts-and-applications.html)