

Book Chapters:

1. Anurag Shukla, Sarsij Tripathi, Malay Kumar, Arun Chauhan, Chatterjee (2022). Deployment and Analysis of Random Walk and Random Waypoint Mobility Model for WSN-Assisted IoT Hierarchical Framework. Book Chapter in P., Bhadoria, R.S., & Pathak, Y. (Eds.). (2022). 5G and Beyond: The Future of IoT (1st ed.). Chapman and Hall/CRC. <https://doi.org/10.1201/9781003045809>
2. Nawghare, R., Tripathi, S., Vardhan, M. (2021). A Survey on Social Networking Using Concept of Evolutionary Algorithms and Big Data Analysis. In: Gao, XZ., Tiwari, S., Trivedi, M., Mishra, K. (eds) Advances in Computational Intelligence and Communication Technology. Advances in Intelligent Systems and Computing, vol 1086. Springer, Singapore. https://doi.org/10.1007/978-981-15-1275-9_23
3. Agrawal, A., Tripathi, S. (2020). Active Learning Using Margin Sampling Strategy for Entity Recognition. In: Gunjan, V., Senatore, S., Kumar, A., Gao, XZ., Merugu, S. (eds) Advances in Cybernetics, Cognition, and Machine Learning for Communication Technologies. Lecture Notes in Electrical Engineering, vol 643. Springer, Singapore. https://doi.org/10.1007/978-981-15-3125-5_18
4. Shukla, A., Tripathi, S. (2020). An Energy-Efficient Framework Based on Random Waypoint Mobility Model in WSN-Assisted IoT. In: Dutta, D., Kar, H., Kumar, C., Bhadauria, V. (eds) Advances in VLSI, Communication, and Signal Processing. Lecture Notes in Electrical Engineering, vol 587. Springer, Singapore. https://doi.org/10.1007/978-981-32-9775-3_10

5. Patil, K., Nagwani, N.K., Tripathi, S. (2019). Utilizing Clustering Techniques for Improving the Boxplots. In: Verma, S., Tomar, R., Chaurasia, B., Singh, V., Abawajy, J. (eds) Communication, Networks and Computing. CNC 2018. Communications in Computer and Information Science, vol 839. Springer, Singapore. https://doi.org/10.1007/978-981-13-2372-0_11
6. Shukla, A., Tripathi, S. (2019). Analysis of Energy Efficient Framework for Static and Mobile Nodes in WSN-Assisted IoT. In: Prateek, M., Sharma, D., Tiwari, R., Sharma, R., Kumar, K., Kumar, N. (eds) Next Generation Computing Technologies on Computational Intelligence. NGCT 2018. Communications in Computer and Information Science, vol 922. Springer, Singapore. https://doi.org/10.1007/978-981-15-1718-1_23
7. Agrawal, A., Tripathi, S. (2019). Particle Swarm Optimization with Probabilistic Inertia Weight. In: Yadav, N., Yadav, A., Bansal, J., Deep, K., Kim, J. (eds) Harmony Search and Nature Inspired Optimization Algorithms. Advances in Intelligent Systems and Computing, vol 741. Springer, Singapore. https://doi.org/10.1007/978-981-13-0761-4_24
8. Agrawal, P., Anand, V., Tripathi, S., Pandey, S., Kumar, S. (2019). A Solution for Successful Routing in Low–Mid-Density Network Using Updated Azimuthal Protocol. In: Bhattacharyya, S., Hassanien, A., Gupta, D., Khanna, A., Pan, I. (eds) International Conference on Innovative Computing and Communications. Lecture Notes in Networks and Systems, vol 55. Springer, Singapore. https://doi.org/10.1007/978-981-13-2324-9_34
9. Agrawal, A., Tripathi, S. (2018). Euclidean Distance Based Particle Swarm Optimization. In: Sa, P., Bakshi, S., Hatzilygeroudis, I., Sahoo, M. (eds) Recent Findings in Intelligent Computing Techniques . Advances in Intelligent Systems and Computing, vol 709. Springer, Singapore. https://doi.org/10.1007/978-981-10-8633-5_12

10. Ojha, R.P., Yadav, R.S., Tripathi, S. (2013). Secure Real Time Scheduling on Cluster with Energy Minimization. In: Singh, K., Awasthi, A.K. (eds) Quality, Reliability, Security and Robustness in Heterogeneous Networks. QShine 2013. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 115. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-37949-9_78
11. Prakash, A., Tripathi, S., Verma, R., Tyagi, N., Tripathi, R., Naik, K. (2010). A Cross Layer Seamless Handover Scheme in IEEE 802.11p Based Vehicular Networks. In: , *et al.* Contemporary Computing. IC3 2010. Communications in Computer and Information Science, vol 95. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-14825-5_8
12. Tripathi, S., Yadav, R. S., Ranvijay,, & Jana, R. L. (2013). Resource Management in Real Time Distributed System with Security Constraints: A Review. In N. Bessis (Ed.), *Development of Distributed Systems from Design to Application and Maintenance* (pp. 230-251). IGI Global. <https://doi.org/10.4018/978-1-4666-2647-8.ch014>.

Journal papers:

1. Riju Bhattacharya and Naresh Kumar Nagwani and Sarsij Tripath, (2022). A hybrid approach for predicting missing follower–followee links in social networks using topological features with ensemble learning. *Data Technologies and Applications* © Emerald Publishing Limited 2514-9288 DOI: <https://doi.org/10.1108/DTA-02-2022-0072> **(IF: 1.667, SSCI, Scopus)**.
2. Shubhra Dwivedi, Manu Vardhan & Sarsij Tripathi (2022). Defense against distributed DoS attack detection by using intelligent evolutionary algorithm, *International Journal of Computers and Applications*, 44:3, 219-229, DOI: 10.1080/1206212X.2020.1720951. **(2.0 (2020) CiteScore Scopus)**
3. Agrawal A, Tripathi S, Vardhan M, Sihag V, Choudhary G, Dragoni N (2022). BERT-Based Transfer-Learning Approach for Nested Named-Entity Recognition Using Joint Labeling. *Applied Sciences*. 2022; 12(3):976. <https://doi.org/10.3390/app12030976> **(IF:2.838, SCIE, Scopus)**
4. Dwivedi, S., Vardhan, M. & Tripathi, S (2021). Building an efficient intrusion detection system using grasshopper optimization algorithm for anomaly detection. *Cluster Comput* 24, 1881–1900. <https://doi.org/10.1007/s10586-020-03229-5>. **(IF:1.906, SCIE, Scopus)**
5. Agrawal, A., Tripathi, S. & Vardhan (2021), M. Multicore based least confidence query sampling strategy to speed up active learning approach for named entity recognition. *Computing* (2021). <https://doi.org/10.1007/s00607-021-01000-1> **(IF:2.495, SCI, Scopus)**

6. Dwivedi, S., Vardhan, M. & Tripathi, S (2021). Multi-Parallel Adaptive Grasshopper Optimization Technique for Detecting Anonymous Attacks in Wireless Networks. *Wireless Pers Commun* 119, 2787–2816 (2021). <https://doi.org/10.1007/s11277-021-08368-5> (IF:1.671, SCIE, Scopus)
7. Agrawal, A., Tripathi, S. & Vardhan(2021), M. Active learning approach using a modified least confidence sampling strategy for named entity recognition. *Prog Artif Intell* 10, 113–128 (2021). <https://doi.org/10.1007/s13748-021-00230-w>. (ESCI, Scopus)
8. Agrawal, A., Tripathi, S (2021). Particle swarm optimization with adaptive inertia weight based on cumulative binomial probability. *Evol. Intel.* 14, 305–313 (2021). <https://doi.org/10.1007/s12065-018-0188-7>. (ESCI, Scopus)
9. Agrawal, Ankit, Tripathi, Sarsij, and Vardhan, Manu (2021). ‘Uncertainty Query Sampling Strategies for Active Learning of Named Entity Recognition Task’. *Intelligent Decision Technologies*, vol. 15, no. 1, pp. 99-114, DOI: 10.3233/IDT-200048. (ESCI, Scopus).
10. Bhattacharya, R., Nagwani, N. K., & Tripathi, S. (2021). A Comparative Study of Graph Kernels and Clustering Algorithms. *International Journal of Multimedia Data Engineering and Management (IJMDEM)*, 12(1), 33-48. <http://doi.org/10.4018/IJMDEM.2021010103>. (ESCI, Scopus).
11. Dwivedi, S., Vardhan, M. & Tripathi, S (2020).. Incorporating evolutionary computation for securing wireless network against cyberthreats. *J*

- Supercomput* 76, 8691–8728 <https://doi.org/10.1007/s11227-020-03161-w>. (IF:2.474, SCIE, Scopus)
12. Shubhra Dwivedi, Manu Vardhan, Sarsij Tripathi (2020), An effect of chaos grasshopper optimization algorithm for protection of network infrastructure, *Computer Networks*, Volume 176, 2020,107251,ISSN 1389-1286, <https://doi.org/10.1016/j.comnet.2020.107251> (IF:5.493, SCIE, Scopus)
 13. Shukla, A., Tripathi, S (2020). A multi-tier based clustering framework for scalable and energy efficient WSN-assisted IoT network. *Wireless Netw* 26, 3471–3493 <https://doi.org/10.1007/s11276-020-02277-4>. (IF:2.602, SCI, Scopus)
 14. Shukla, A., Tripathi, S (2020). An Effective Relay Node Selection Technique for Energy Efficient WSN-Assisted IoT. *Wireless Pers Commun* 112, 2611–2641 <https://doi.org/10.1007/s11277-020-07167-8>(IF:1.671, SCI, Scopus)
 15. Dwivedi, S., Vardhan, M., Tripathi, S (2020). *et al.* Implementation of adaptive scheme in evolutionary technique for anomaly-based intrusion detection. *Evol. Intel.* 13, 103–117. <https://doi.org/10.1007/s12065-019-00293-8>. (ESCI, Scopus)
 16. Dwivedi, S., Vardhan, M. & Tripathi, S. (2020). Distributed Denial-of-Service Prediction on IoT Framework by Learning Techniques. *Open Computer Science*, 10(1), 220-230. <https://doi.org/10.1515/comp-2020-0009>. (IF:0.648,ESCI, Scopus)
 17. Pandey, S., Jain, R., Tripathi, S. et al (2019). KMHSO: k-Means and Harmony Search-Based Optimization Algorithm for Relay Node Selection in Smart

- Transportation System. *Natl. Acad. Sci. Lett.* 42, 503–507 (2019).
<https://doi.org/10.1007/s40009-019-00792-3> (IF:0.788, SCIE, Scopus)
18. Shukla, A. S., & Tripathi, S. (2019). A Matrix-Based Pair-Wise Key Establishment for Secure and Energy Efficient WSN-Assisted IoT. *International Journal of Information Security and Privacy (IJISP)*, 13(3), 91-105.
<http://doi.org/10.4018/IJISP.201907010106>. (ESCI, Scopus)
19. Vinay Surendra Yadav, Sarsij Tripathi, A.R. Singh(2018), Bi-objective optimization for sustainable supply chain network design in omnichannel, *Journal of Manufacturing Technology Management* Volume 30 Issue 6. (ESCI, Scopus)
20. Shukla, Anurag and Tripathi, Sarsij.(2018) ‘An Optimal Relay Node Selection Technique to Support Green Internet of Things’. *Journal of Intelligent & Fuzzy Systems*, vol. 35, no. 2, pp. 1301-1314, 2018, DOI: 10.3233/JIFS-169674. (IF:1.737, SCIE, Scopus)
21. Shukla, A., & Tripathi, S. (2018). A Survey on Next generation Computing IoT Issues and Challenges. *Int J Pure Appl Math*, 118(9), 45-64. (Scopus)
22. Vinay Surendra Yadav, Sarsij Tripathi & A.R. Singh | Duc Pham (Reviewing Editor) (2017) Exploring omnichannel and network design in omni environment, *Cogent Engineering*, 4:1, DOI: [10.1080/23311916.2017.1382026](https://doi.org/10.1080/23311916.2017.1382026). (SCIE, Scopus)
23. Shukla, A., & Tripathi, S. (2016). Security in Internet of Things. *International Journal of Control Theory and Applications (IJCTA)*, 9(41), 743-752. (Scopus)

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25. BP Chaurasia, SK Gupta, S Tripathi (2014), “ A Review on Quality of Service (QoS) in Vehicular Ad Hoc Networks (VANETs).” International Journal of Advanced Research in Computer Science, Vol 5 Issue 7.
26. Sarsij Tripathi & Meenu Madan(2014), “Use of Artificial Neural Network in Stock Exchange Market”, International Journal of Innovations & Advancement in Computer Science IJIACS ISSN 2347 – 8616 Volume 2, Issue 4 March 2014,pp:23-26.
27. Arun Prakash, Sarsij Tripathi, Rajesh Verma, Neeraj Tyagi, Rajeev Tripathi, and Kshirasagar Naik (2011), “Vehicle Assisted Cross layer handover scheme in NEMO based VANETs (VANEMO) “,International Journal of Internet Protocol Technology (IJIPT) Inderscience, UK, Vol. 6, Nos. ½, pp. 83—95, 2011, DOI:10.1504/IJIPT.2011.040617. (Scopus)
28. Sarsij Tripathi, Rama Shankar Yadav, Ranvijay, Rajib L. Jana (2011), “Resource Management in Real Time Distributed System with Security Constraints: A Review”, International Journal Of Distributed System and Technology (IJDST) IGI Global Publication, Vol. 2 Issue2, PP: 38-58, 2011, DOI: 10.4018/jdst.2011040103. (ESCI,Scopus)

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Conference Publications:

1. P. K. Mishra, A. K. Mishra and S. Tripathi (2019), "Relay Selection Scheme for Dynamic Network Scenario in Multi-hop D2D Communication," *2019 IEEE 4th International Conference on Computer and Communication Systems (ICCCS)*, 2019, pp. 538-542, doi: 10.1109/CCOMS.2019.8821780.
2. K. Patil, N. K. Nagwani and S. Tripathi (2018), "A Parametric Study of Partitioning and Density Based Clustering Techniques for Boxplot Generation," *2018 3rd International Conference for Convergence in Technology (I2CT)*, 2018, pp. 1-5, doi: 10.1109/I2CT.2018.8529468.
3. Rajib Lochan Jana, R. S. Yadav and S. Tripathi (2010), "Window based security-sensitive scheduling for real-time application on cluster," *2010 First International Conference On Parallel, Distributed and Grid Computing (PDGC 2010)*, 2010, pp. 199-204, doi: 10.1109/PDGC.2010.5679893.
4. S. Tripathi, R. S. Yadav and R. L. Jana (2010), "Adaptive security improvement using dynamic window concept for real time tasks on cluster," *2010 International Conference on Computer and Communication Technology (ICCCT)*, 2010, pp. 661-666, doi: 10.1109/ICCCT.2010.5640461.
5. Prakash, A., Tripathi, S., Verma, R., Tyagi, N., Tripathi, R., Naik, K. (2010). A Cross Layer Seamless Handover Scheme in IEEE 802.11p Based Vehicular Networks. In: , *et al.* Contemporary Computing. IC3 2010. Communications in

Computer and Information Science, vol 95. Springer, Berlin, Heidelberg.
https://doi.org/10.1007/978-3-642-14825-5_8

6. S. Tripathi, R. S. Yadav and R. P. Ojha (2009), "A Utilization Based Approach for Secured Real Time Applications on Clusters," *2009 International Conference on Advances in Computing, Control, and Telecommunication Technologies*, 2009, pp. 433-438, doi: 10.1109/ACT.2009.112.