

## Research Publications:

1. **Md. Sirajuddin**, S. Gnanasaravanan, D. M. A, R. K. Kadu, G. Umamahesh, and A. Siddiqui, "Advanced Deep Learning Frameworks For Intelligent Signal And Image Analysis In Real-Time Applications", IJASIS, pp. 168–182, Mar. 2026, doi: 10.29284/hxdhyt03.
2. Arivarasi, A., Chaitanya Varma, V.K., Dureja, A. **Md. Sirajuddin**. Modified fast gated recurrent neural network for effective automated fault detection in IC engine. Int J Syst Assur Eng Manag (2026). <https://doi.org/10.1007/s13198-025-03134-3>.
3. Shaik Munawar, Potte Mounika, Badise Manoj, **Mohammad Sirajuddin**. (2024). Facial Expression Control System for VLC Media Player. International Journal of Communication Networks and Information Security (IJCNIS), 16(3), 263–270.
4. **Mohammad Sirajuddin**, B. Sateesh Kumar, "Secure Power Aware Hybrid Routing Strategy for Large-Scale Wireless Sensor Networks", International Journal of Computer Networks and Applications (IJCNA), 10(6), PP: 1015-1029, 2023, DOI: 10.22247/ijcna/2023/223695.
5. **Mohammad Sirajuddin**, Dr. B. Sateesh Kumar, Year: 2023, Modified Rijndael Algorithm for Resource-Constrained IoT-Based Wireless Sensor Networks, SIS, EAI, DOI: 0.4108/eetsis.2748.
6. **Sirajuddin, M. .**, & Kumar, B. S. . (2023). Intelligent Secure and Malicious-Free Route Management Strategy for IoT-based Wireless Sensor Networks. International Journal of Intelligent Systems and Applications in Engineering, 11(7s), 369–380. Retrieved from <https://mail.ijisae.org/index.php/IJISAE/article/view/2962>.
7. **Mohammad Sirajuddin**, Dr. B. Sateesh Kumar, " Mitigation of Black Hole and Selective Forwarding Attacks through Active Trust Mechanisms in Wireless Sensor Networks" International Journal of Scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT), ISSN : 2456-3307, Volume 9, Issue 3, pp.329-337, May-June-2023. Available at doi : <https://doi.org/10.32628/CSEIT2390395>.
8. **Mohammad Sirajuddin**, Dr. B. Sateesh Kumar, "Efficient Trust-based Malicious Node Identification and Recovery Technique in Resource-Constrained Wireless Sensor Networks," International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), DOI: 10.17148/IJARCCE.2022.111241.
9. **Mohammad Sirajuddin** and B. Sateesh Kumar, Secure and Efficient Routing Schemes and their Design Challenges in Wireless Sensor Networks, International Journal of Advanced Research in Engineering and Technology, 12(5), 2021, pp. 139-146.
10. **Sirajuddin, Mohammad**. (2021). MACHINE LEARNING TECHNIQUES FOR ROUTING, LOCALIZATION AND QOS FOR FUTURE WIRELESS SENSOR NETWORKS. International Journal of Advanced Research in Computer Science. 12. 15-18. 10.26483/ijarcs.v12i6.6788.
11. **Mohammad Sirajuddin**, B Sateesh Kumar, Malware Detection Approaches and Analysis for the Internet of Medical Things Enabled Healthcare Systems. <http://30534/ijatcse/2021/061062021>, International Journal of Advanced Trends in Computer Science and Engineering Available Online at <https://doi.org/10.30534/ijatcse/2021/061062021>.
12. **Md. Sirajuddin**, International Journal of Innovative Research in Science, Engineering and Technology, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 6, Issue 8, August 2017.
13. **Md. Sirajuddin**, International Journal of Engineering Research in Computer Science and Engineering (IJERCSE) An Implementation of Algorithm based on Back Pressure using Shadow in Wireless Ad Hoc Network , Vol 4, Issue 2, February 2017.

## Papers presented in Conference:

1. **M. Sirajuddin**, R. Thallapalli, S. Munawar, S. Mohmmad, A. Ramesh and R. Sagar, "Secure and Optimized Clustering Framework for Energy-Aware Wireless Sensor Networks," 2025 6th International Conference on Electronics and Sustainable Communication Systems (ICESC), Coimbatore, India, 2025, pp. 561-566, doi: 10.1109/ICESC65114.2025.11212249.
2. Pulluri Sreenivasgoud, **Mohammad Sirajuddin**, Kankanala Sridhar, Rachoori Sagar, Thudum Venkatesh; Prediction and analysis of cricket batsman performance using neural networks. AIP Conf. Proc. 5 June 2024; 2971 (1): 020062. <https://doi.org/10.1063/5.0195963>.
3. Pulluri Sreenivasgoud, K. Sridhar, **Mohammad Sirajuddin**, Thudum Venkatesh, Rachoori Sagar; Analyzing and predicting football match results using deep learning. AIP Conf. Proc. 5 June 2024; 2971 (1): 020042. <https://doi.org/10.1063/5.0195964>.
4. **M. Sirajuddin** and B. S. Kumar, "Efficient and Secured Route Management Scheme Against Security Attacks in Wireless Sensor Networks," 2021 Second International Conference on Electronics and Sustainable Communication Systems (ICESC), Coimbatore, India, 2021, pp. 1045-1051, doi: 10.1109/ICESC51422.2021.9532779.
5. Sirajuddin, M., Sateesh Kumar, B. (2022). Collaborative Security Schemes for Wireless Sensor Networks. In: Kumar, A., Mozar, S. (eds) ICCCE 2021. Lecture Notes in Electrical Engineering, vol 828. Springer, Singapore. [https://doi.org/10.1007/978-981-16-7985-8\\_36](https://doi.org/10.1007/978-981-16-7985-8_36)

## Book Chapters:

Book Chapter Publiised in CRC Press Taylor & Francis Group

**Chapter Title:** Security Issues And Intelligent Solutions For IOMT- Enabled Healthcare Systems

**Book Title:** Handbook of Research on Artificial Intelligence and Soft computing techniques in personalized Health care services.

## Patent Published:

Title of the invention : INTELLIGENT SMART MINE SAFETY SYSTEM WITH REAL TIME ALERTS

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