

## Research Publications MNR University 2025

1. Venkataraman, H., Nidamanuri, J., Dittakavi, A. V., Y, R. V. P., Trestian, R., & Nguyen, H. (2025). DTMA: visual object inspection and mechanism for digital twin with robotic arm. *Signal, Image and Video Processing*, 19, Article 852. <https://doi.org/10.1007/s11760-025-04134-3>
2. Hembram, D. K., Tripathy, S. N., Reddy, C. H. N., Dansana, D., Naveed, Q. N., Khan, S., Kareemullah, M., & Emma, A. F. (2025). IoT driven smart health monitoring for heart disease prediction using quantum kernel enhanced sardine diffusion and CNN. *Scientific Reports*, 15(1), Article 17306. <https://doi.org/10.1038/s41598-025-99990-x>
3. Kumari, M. P., & Nidamanuri, J. (2025). Biomimetic Robotic System for Efficient Larva Removal in Paddy Fields: A Simulation-Based Study. In *Proceedings of the 2025 17th International Conference on COMmunication Systems and NETworks (COMSNETS)* (pp. 233-240). IEEE. <https://doi.org/10.1109/COMSNETS63942.2025.10885746>
4. Nidamanuri, J., Kalasagond, A., Reddy, K. R., & Durgaprasad, S. (2025). Integrated LLM Based Reasoning for safe and Efficient Decision Modeling in Assisted Driving. In *Proceedings of the 2025 17th International Conference on COMmunication Systems and NETworks (COMSNETS)* (pp. 112-118). IEEE.
5. Nidamanuri, J., Aditya, S., Varma, P. N., & Kamireddi, S. K. (2025). AI Infused Underwater Analysis for Enhanced Coral Species. In *Proceedings of the 2025 12th International Conference on Computing for Sustainable Global Development (INDIACom)* (pp. 412-418). IEEE.
6. Ravulakollu, K. K., Yanna, K., Sathwik, T. L. V. P., Apoorva, N., Seeker, R., & Kumar, R. (2025). Indian Sign Language Detection Using Lightweight Architecture. *Journal of Visual Communication and Image Representation*, 99, 104-115
7. Ravulakollu, K. K., Reddy, G. S. N., Jadhav, M., Batti, V., Vupputuri, V. K., & Polishetty, R. K. (2025). Limited Training Approach To Model Latent Fingerprint Data For Time-Constrained Solutions. In *Proceedings of the 2025 17th International Conference on COMmunication Systems and NETworks (COMSNETS)* (pp. 90-95). IEEE. <https://doi.org/10.1109/COMSNETS63942.2025.10885690>

8. Kalikivayi, L., Mohandas, A., & Kalikivayi, V. (2025). Impact of face mask usage on physiological and histological ocular surface features of hydrogel and silicone hydrogel contact lens wearers. *Oman Journal of Ophthalmology*, 18(3), 328–335. [https://doi.org/10.4103/ojo.ojo\\_34\\_25](https://doi.org/10.4103/ojo.ojo_34_25)
9. Theja, N., Chaitanya, C., Pushpa, V., Sudheendra, S., Kumar, S., & Satyananda Siva, S. (2025). Exploring the frontiers of machine learning in radiology: A comprehensive review of applications, advancements, and the challenges that lie ahead. *Biosciences Biotechnology Research Asia*, 22(1). <https://doi.org/10.13005/BBRA/3343>
10. Mahaboob Vali Shaik, Munni Shaik, Jayaram G, Vijaya Shekar Kola, Skandha Harshita S, Swarna deepak Kuragayala and John basha shaik. (2025). Correlation Between Glycaemic Conditions With Sirt-1 Gene Expression Levels in the Progression Of Diabetic Retinopathy. *International Journal of Retina*, 8 (2).
11. Mahaboob Vali Shaik, Munni Shaik, John basha shaik, Jayaram G, Babulal S, Nissi Molli, Swarna and Deepak Kuragayala (2025). Tumor necrosis factor alpha gene polymorphism in respiratory failure patients with diabetic patients who undergoing treatment at intensive care unit. *Archives of Advances in Biosciences* (2025), Volume 16, Issue 1, Pages 1–9.
12. Rajiv Kumar, Nagesh Sali and John basha shaik (2025). Study on Liver Enzymes as an Early Predictor of Complicated Dengue Fever in a Tertiary Care Hospital. *Research Journal of Medical Sciences* 18, 709-712.