



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (Under Tier - I), ISO 9001:2015 Certified Institution,

Approved by AICTE, New Delhi. and Affiliated to JNTUK, Kakinada

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DEPARTMENT OF INFORMATION TECHNOLOGY

Secure Network System Research Group

INTRODUCTION:

The **Secure Networked Systems Research Group** in the Department of **Information Technology** at Laki Reddy Bali Reddy College of Engineering is dedicated to promoting research in the field of network and information security. The group focuses on developing secure, reliable, and efficient networked systems to address modern cybersecurity challenges. The research group works on areas such as network security, cryptography, cloud security, intrusion detection systems, data protection, and privacy-preserving technologies. It aims to design and implement solutions that protect digital infrastructure from cyber threats and ensure safe communication across networks.

With well-equipped laboratories and modern computing facilities, the group provides strong technical support for both students and faculty to explore emerging trends in secure networking technologies. The faculty members guide students in carrying out research projects, publishing papers in reputed journals, and participating in workshops and seminars. Through continuous learning, collaboration, and innovation, the Secure Networked Systems Research Group strives to build strong expertise in cybersecurity and create a secure digital future.

OBJECTIVES OF THE SECURE NETWORKED SYSTEM RESEARCH GROUP

- **To promote research in secure networked systems** and modern cybersecurity technologies.
- **To develop strong security solutions** to protect networks, data, and digital infrastructure from cyber threats.
- **To encourage students and faculty to participate in research projects** related to network security, cryptography, and cloud security.
- **To publish quality research papers** in reputed journals and conferences in the field of cybersecurity.
- **To organize workshops, seminars, and guest lectures** on current trends in network and information security.

- **To collaborate with industry and academic institutions** for knowledge sharing and practical exposure.
- **To support students in applying for research grants and funded projects** in secure networking technologies.
- **To create a secure and innovative research environment** within the Department of Information Technology.

Members of Intelligent Computing System Research Group

S.NO	NAME OF MEMBER	DESIGANTION
1	Dr. Phaneendra K	Coordinator
2	Dr. G. Rajendra	Members
3	Dr. K. Venu Gopal	
4	Mrs. M. Hema Latha	
5	Mr. V.V. Krishna Reddy	
6	Mr. Ch. Sambasiva Rao	
7	Mr. B. Sarath Chandra	
8	Mr. Rajesh Reddy Muley	
9	Mr. M. Vijay Kumar	
10	Mr. Ch.Poorna Venkata Srinivasa Rao	
11	Mr. Bhanu Pratap Reddy B	
12	Mr. B. Ravindra Chanti Babu	
13	Mrs. T. Karuna Latha	

SCIE

1) Reddy, A. V., Mallick, P. K., Kumar, S., Mishra, D., Reddy, P. A., & **Chindam, S.** (2025). Meerkat-Optimised SENet Approach: Advancements in Retinal Fundus Image Augmentation and Classification. Arabian Journal for Science and

Engineering, 50(19), 15235-15279. <https://doi.org/10.1007/s13369-025-10548-5>
(August 26-2025) (Q1)

Journals

1) **Kumar, M. V.**, Matlapudi, T., Ulliboina, P. S., Ponnamm, S. S. S., Sravani, L. S., Gunnam, D. R., & Bhimireddy, V. S. (2025). A deep learning approach with data augmentation for robust SAHS classification from nasal pressure signals. International Journal of Information Technology, 1-8. <https://doi.org/10.1007/s41870-025-02665-z> (July 30-2025) (Q2)

Scopus Conference Proceedings

1) **Hema Latha, M.**, Hema Kalyani, C., Ankitha, S., & Ashok, P. (2024, June). Intelligent Recipe Recommendation System with Health Insights Using Transfer Learning and Ensemble Learning. In International Conference on Data Analytics & Management (pp. 563-574). Singapore: Springer Nature Singapore.

2) 4) **Kumar, M. V.**, Gudar, R. R., Sandeep, J. S., Rao, K. H., & Nayak, N. K. (2025, July). An Ensemble Deep Learning Model Using CNN, LSTM and Autoencoder for EEG-Based Parkinson's Disease Classification. In 2025 International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3) (pp. 1-6). IEEE. DOI: 10.1109/ISAC364032.2025.11156572.

5) **Kumar, M. V.**, Vamsi, S., Mokshagna, A. T., Pavani, E., & Rao, G. S. (2025, July). Deep Learning-based Student Engagement Detection using CNN, Mobile Net, ResNet50, VGG16. In 2025 International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3) (pp. 1-5). IEEE. DOI: 10.1109/ISAC364032.2025.11156385.

6) **Reddy, V. K.**, Raju, M. N., Rani, V. B., Kumar, V. S., & Kolli, C. S. (2025, July). AGDPM-Net: Hybrid Ensemble Framework for Genetic Disorder Prediction. In 2025 International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3) (pp. 1-5). IEEE. DOI: 10.1109/ISAC364032.2025.11156678.

- 7) **Muley, R. R.**, Reddy, P. A., Chakravarthi, M. A., Ramakrishna, K. V. S. S., & Chavala, S. (2025, May). A Smart Dress Code Monitoring System Leveraging Transfer Learning With YOLOV11. In 2025 International Conference on Advancements in Smart, Secure and Intelligent Computing (ASSIC) (pp. 1-5). IEEE. DOI: [10.1109/ASSIC64892.2025.11158570](https://doi.org/10.1109/ASSIC64892.2025.11158570).
- 8) **Muley, R. R.**, Maddali, M., & Ponnamm, D. N. S. (2025, July). Hybrid Deep Learning Model for Skin Cancer Classification: Integrating PSO-Tuned CNN with Stacking Ensemble Learning. In 2025 International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3) (pp. 1-6). IEEE. DOI: [10.1109/ISAC364032.2025.11156757](https://doi.org/10.1109/ISAC364032.2025.11156757)
- 9) **Munnangi, H. L.**, Avuluri, R. R., Sugriva, D. P., & Vanjarapu, M. (2025, July). Deep Learning-based Blood Group Classification from Fingerprint Biometrics. In 2025 International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3) (pp. 1-5). IEEE. | DOI: [10.1109/ISAC364032.2025.11156779](https://doi.org/10.1109/ISAC364032.2025.11156779).
- 10) **Gurram, R.**, Anil, B., & Teja, M. (2025, July). Adaptive Indoor Air Quality Monitoring System using Iot Sensors And Deep Learning. In 2025 International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3) (pp. 1-5). IEEE. | DOI: [10.1109/ISAC364032.2025.11156482](https://doi.org/10.1109/ISAC364032.2025.11156482).
- 11) **Kanakamedala, P.**, Sunkara, V. M., Kumar, J. R., Kumar, P. J. S., Reddy, M. B., & Rajendra, G. (2025, July). Attention U-Net for Segmentation of Pancreatic Neuroendocrine Neoplasms in Computer Tomograph. In 2025 International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3) (pp. 1-6). IEEE. DOI: [10.1109/ISAC364032.2025.11156429](https://doi.org/10.1109/ISAC364032.2025.11156429).
- 12) **Kanakamedala, P.**, Sunkara, V. M., Kumar, J. R., Reddy, M. B., & Prasad, D. D. (2025, July). Shrimp Disease Classification and Medicine Recommendation using Deep Learning Techniques. In 2025 International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3) (pp. 1-6). IEEE. DOI: [10.1109/ISAC364032.2025.11156739](https://doi.org/10.1109/ISAC364032.2025.11156739).

14) Sahith, R., Gaddam, S. R., Reddy, P. V., Ganesh, D., Kosuri, G. V., & Thanukula, **K. L.** (2025, August). Ultrasonic Bioacoustics and Deep Learning for Early Plant Disease Prediction. In 2025 3rd International Conference on Sustainable Computing and Data Communication Systems (ICSCDS) (pp. 1713-1718). IEEE. DOI: 10.1109/ICSCDS65426.2025.1116773.