



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC with 'A' Grade & 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 COMPUTER SCIENCE & ENGINEERING

Network and Cloud Computing Security Research Group

INTRODUCTION:

The Network and Cloud Computing Security Research Group in the Department of Computer Science and Engineering at Laki Reddy Bali Reddy College of Engineering is dedicated to advancing research in the fields of secure networks and cloud infrastructure. The group focuses on topics like cryptographic protocols, network security, cloud data protection, intrusion detection systems, and privacy-preserving technologies. Equipped with modern laboratories and high-performance computing resources, the group enables both students and faculty to explore security challenges in emerging network architectures and cloud platforms.

Guided by a team of highly qualified faculty members, the research group encourages active participation in cutting-edge research. By organizing workshops, guest lectures, and seminars with industry and academic experts, the group keeps its members updated on the latest developments in the field. Additionally, the faculty supports students in publishing research papers in reputable journals and applying for research grants, fostering an environment of innovation and knowledge sharing.

Objectives of the Network and Cloud Computing Security Research Group

1. **To design and develop secure network models and cloud computing architectures** to protect against cyber threats and ensure data privacy.
2. **To conduct faculty and student colloquiums** for the exchange of ideas and knowledge on recent advancements in network and cloud security.
3. **To organize workshops, faculty development programs (FDPs), and guest lectures** by experts from industries and research institutions on security technologies and their applications.
4. **To utilize available research infrastructure and produce high-quality publications** on network and cloud security.
5. **To submit research proposals** for funding from agencies like AICTE, UGC, and DST to further network and cloud security research.
6. **To encourage students and faculty** to engage in research activities and submit papers to reputed SCIE, Scopus, and UGC-listed journals.
7. **To enhance the quality of B.Tech projects** by integrating secure cloud and networking practices into project development.

Members of Network and Cloud Computing Security Research Group:

S.NO	Name of the Member	Designation
1.	Dr. Y. Vijay Bhaskar Reddy	Coordinator
2.	Dr.M.Srinivasa Rao	Members
3.	Dr. D. Veeraiah	
4.	Dr. B. Siva Rama Krishna	
5.	Dr. G.V. Suresh	
6.	Dr. S. Govindu	
7.	Mr. T.N.V.S. Praveen	
8.	Mr.N.Srikanth	
9.	Mr.O.Venkata Siva	
10.	Mr.P.Rajasekhar	
11.	Mrs. M. Gayathri	
12.	Mrs. N .Venkata Padmavathi	
13.	Mr. Y. Praveen Kumar	
14.	Mr. D. Sainath	
15.	Mr. MD. Sajeena	

JOURNALS

1. **“Revolutionizing vascular health through the temporal convolutional transformer for drug screening and model evolution”**, Rajendra Kumar G, **D. Veeraiah**, **J. Nageswara Rao**, Venkata Nagaraju T, Ramaswamy M, A. Rajaram, Biomedical Signal Processing and Control(**Q1**,Impact factor:1.28,H index:108), Volume 95, Part B, September 2024, ISSN NO .17468094, 17468108
<https://doi.org/10.1016/j.bspc.2024.106390>
2. **“Evaluating the Performance of Vascular Feature Extraction Boosting Algorithm for Peripheral Arterial Disease Detection”**, **B. Siva Rama Krishna**, Ch. N. Santhosh Kumar, B.V. Subba Rao, V. Rama Krishna, Rajendra Kumar G, and **J. Nageswara Rao**, International Journal of Pattern Recognition and Artificial Intelligence(**Q3**), Nov-24, ISSN (print): 0218-0014 | ISSN (online): 1793-6381.
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3. **“Anomaly based intrusion detection using ensemble machine learning and block-chain”**, **M. Srinivasa Rao**, Sk Nazma, K Nava Chaitanya, T Ambica, Dr. V.V. Jaya Rama krishnaiah, Dr. B. Srinivasa Rao, IAES International Journal of Artificial Intelligence (IJ-AI) (H-index:22, **Q3**, Impact Factor:0.37) ,vol-13, Issue-3, Pg.no: 2754-2762,Sept-2024,ISSN/e-ISSN:2089-4872/2252-8938.
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4. **“Machine Learning Algorithm For Rapid Object Detection Based On Color Features”**, B. V. Satish Babu, **D. Veeraiah**, P Navya, Ramu K, Lakshmi Ramani B, Swarupa Rani B, N Chandra Sekhar, ASEAN Engineering Journal(H-index:8,**Q2**, Impact factor:0.58), 31 August 2024, 14: 3 (2024) 183-189, E ISSN 2586–9159.
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5. **“A Deep Learning Approach for Detecting Malware Using Auto encoder”**, Venu Madhav P, Ch. Satya Keerthi N.V.L, S. Surekha, R. Sujatha, **D. Veeraiah**, E Ramesh, Lakshmi B., IAENG International Journal of Computer Science(H-index:28, **Q3**, Impact factor:0.28), Volume 51, Issue 8, Aug-24, Pages 1051-1059, ISSN: 1819-9224 (online version); 1819-656X (print version).
https://www.iaeng.org/IJCS/issues_v51/issue_8/index.html
6. **“Exploring Machine Learning Methods for Intrusion Detection System: A Deep Dive Into Techniques, Datasets, and Persistent Challenges”**, Sk. Johny Basha, **D. Veeraiah**, Sumalatha L, Journal of Theoretical and Applied Information Technology, Vol.102. No. 22, 30 November 2024, ISSN: 1992-8645, E-ISSN: 1817-3195.
<http://www.jatit.org/volumes/Vol102No22/20Vol102No22.pdf>.

1. **“Tomato Guard: A Predictive Model for Disease Prediction and Treatment Recommendation in Tomato Plants “**, Shaik Johny Basha; **D. Veeraiah**; B. Snigdha Dev, C.S.L. Hymavathi, I. Govardhan, 3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC-2024), Jul-24, Date of Conference: 05-07 June 2024 Salem, India, Electronic ISBN:979-8-3503-7519-0 Print ISBN:979-8-3503-7520-6.
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2. **“Enhancing Communication for Deaf and Dumb Individuals through Sign Language Detection: A Comprehensive Dataset and SVM-Based Model Approach”**, **D.Veeraiah**;, Shaik Johny Basha, K Sree Deepthi, T Sathvik, P Ganesh, 2024 3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC), Jul-24, Salem, India, Electronic ISBN:979-8-3503-7519-0, Print ISBN:979-8-3503-7520-6.
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3. **“Advancing Multiple Sclerosis Diagnosis: A CNN Approach for Personalized Therapy”**, S. J. Basha **D. Veeraiah**, P. C. Kumar and P. C. Kesava Reddy, 2024 10th International Conference on Advanced Computing and Communication Systems (ICACCS), Date of Conference: 07-09 August 2024, pp. 1926-1931, "Electronic ISBN:979-8-3503-7994-5 Print ISBN:979-8-3503-7995-2"
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4. **“Task Scheduling Using TVIW-PSO in Cloud Computing”**, **B. Siva Rama Krishna**; T. Murali Krishna; J. Bhavya Sri; B.Vishnu Priya, 2024 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), Date of conference :Jul-24, Electronic ISBN :979-8-3503-8944-9/979-8-3503-8943-2,
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7. **“The Versatility of Keyloggers: Data Retrieval and Covert Tracking Techniques”**, **Rajasekhar P**; Jahnvi P; Swathi R; Rohit B, 2024 International Conference on Expert Clouds and Applications (ICOECA), Date of Conference: 18-19 April 2024, Conference Location: Bengaluru, India, Date Added to IEEE Xplore: 05 August 2024, Electronic ISBN:979-8-3503-8579-3, ISBN:979-8-3503-8580-9.
DOI: [10.1109/ICOECA62351.2024.00050](https://doi.org/10.1109/ICOECA62351.2024.00050)
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