

Sri Shridevi Charitable Trust (R.) SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

Sira Road, Tumkur - 572 106, Karnataka, India. Phone: 0816 - 2212629 | Pinvin 1 (16, 6 - 22 (2 52 1, 56) 1 (1 81 M | Telefax: 0816 - 2212628

ESTD: 2002 (Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

NAME: Dr. REKHA H

Designation: Professor & HOD Department: Information Science and Engineering

Date of Joining	7 th July 2023		
Professional Experience	Teaching	Industry	Research
Daperience	18	4	10

Contact Details		
Email ID	rekhah.girish@gmail.com	
Telephone	9844040350	
Google Scholar	XqhOHZoAAAAJ	
Research ID	HPG-9538-2023	
ORCID	0000-0002-4769-4551	
Vidwan -ID	379463	

Academic Background

- Ph. D. in Computer Science and Engineering from Shri Siddhartha Academy of Higher Education, Tumkur
- M. Tech. in Computer Science and Engineering from VTU, Belagaum •
- **B.E.** in Computer Science and Engineering from Bangalore University •

Areas of Interest		
Network Security	Artificial Intelligence	
Machine Learning	Blockchain Technology	

Significant Publications

- **Papers Published in Journals -9**
- Rekha H. and Siddappa M., "Hybrid deep learning model for attack detection in internet of things". Service Oriented Computing Applications 16, 293-312 (2022). https://doi.org/10.1007/s11761-022-00342-8,

Springer London Publisher (SCIE /Scopus Indexed journal/ ACM digital library/SCImago)

Rekha H. & Siddappa M., "Blockchain Mechanism-Based Attack Detection in IoT with Hybrid Classification and Proposed Feature Selection", Cybernetics and Systems, 2023

https://doi.org/10.1080/01969722.2023.2166266

Taylor & Francis online Publisher, (SCIE/Scopus Indexed)

• Rekha H. and Dr. M. Siddappa.," Model Checking M2M and Centralized IOT authentication Protocols". First International Conference on Artificial Intelligence, Computational Electronics and Communication System (AICECS 2021), October 2021.

https://iopscience.iop.org/article/10.1088/1742-6596/2161/1/012042

IOP: Journal of Physics: Conference Series, Jan 2022. (Scopus indexed open access journal)

- Rekha H and Shalini P. M. (March 2016) "Secure Data Storage and Control Access Allowance in Cloud with Authority". International Journal of Engineering Research & Technology,
- "A Novel Skin Disease Detection Technique Using Machine Learning", International Journal on Recent and Innovation Trends in Computing and Communication, ISSN: 2321-8169 Volume: 11 Issue: 10s DOI: <u>https://doi.org/10.17762/ijritcc.v11i10s.7607</u>, September 2023
- "Mind Control Robotic Arm: Augmentative and Alternative Communication in the Classroom Environment", International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169 Volume: 11 Issue: 10s , DOI: <u>https://doi.org/10.17762/ijritcc.v11i10s.7649</u>, September 2023
- Eficient user association strategy for maximizing use satisfaction and resource utilization in heterogeneous cloud radio access networks, International Journal of Electrical and Electronics Research, 12, 160-166, 2024, https://doi.org/10.37391/IJEER.120123
- "MRI intracranial neoplasm localization using convolution Neural Network based Residual block ResUnet: A systematic approach", International Journal of Electrical and Electronics Research, 11, 1128-1135, 2023, <u>https://doi.org/10.37391/ijeer.110433</u>
- "MEMS based Wearable Smart-Glove and its Application of Gesture Detection and Sign Language Classification for Vocally Impaired with Integrated Health Monitoring System", International Journal of Intelligent Systems and Applications in Engineering, 495–502, 2024, https://ijisae.org/index.php/IJISAE/article/view/5162

Presented in Conferences -7

- Rekha H. and M. Siddappa. "Internet of Things: Device Security Challenges and Solutions for Smart City Applications". *International Conference on Multidisciplinary Technologies & Challenges in Industry* 4.0(ICMTCI-4.0), at East Point College of Engineering & Technology, Bengaluru, Karnataka, September 2020
- Rekha H "2.4 GHz Operational PSI-Shaped Patch antenna design for multipurpose Applications". Second IEEE International conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN 2023) at IFET college of Engineering on 21st and 22nd April 2023. (Scopus indexed)
- An IoT-Based CNN Model for Patients in ICU Beds During the COVID-19 Outburst, 2023 International Conference on Data Science and Network Security (ICDSNS), 22 September 2023, https://doi.org/10.1109/ICDSNS58469.2023.10244881
- Diabetic Retinopathy Fundus Image Classification using MSCSO based Optimization with Fuzzy Support Vector Machine, 22 September 2023, 22 September 2023, <u>https://doi.org/10.1109/ICDSNS58469.2023.10245043</u>
- "Enhancing Apple Leaf Diagnosis Through Deep Learning Techniques", 2023 4th International Conference on Smart Electronics and Communication (ICOSEC), 16 October 2023, <u>https://doi.org/10.1109/ICOSEC58147.2023.10275936</u>
- "Comparative Study of Deep Learning Techniques for Automated Classification of Lung Diseases", 2023 4th International Conference on Smart Electronics and Communication (ICOSEC), 16 October 2023,

https://ieeexplore.ieee.org/document/10275936, https://doi.org/10.1109/ICOSEC58147.2023.10276053

- Rekha H. and M. Siddappa." Model Checking M2M and Centralized IOT authentication Protocols". *First International Conference on Artificial Intelligence, Computational Electronics and Communication System (AICECS 2021)*, October 2021.
- Patents Published (Numbers and Description) Automatic Biological Vermi Compost Maker (Granted on 12.7.2023), https://www.registereddesign.service.gov.uk/find/6292761

Achievements

- Appointed as a BOE member for CSE Board at VTU, Belagaum
- Recognized as a BOE in IS board at SSIT, Tumkur
- Recognized as an examiner for Ph. D. viva voce at Adichunchanagiri University
- Recognized as a BOS member for CSE Board at East West college of Engineering, Bangalore
- Reviewer for International Conference on Knowledge Engineering and Communication Systems.
- Reviewer for Artificial Intelligence review
- Reviewer for Springer Nature journals
- Professional Membership in ISTE