



Name - Dr. Shankar Rakhamaji Madkar

Qualification- M.Tech (Electronics-VLSI) Ph.D (Electronics Engineering)

Experience-19 years 08 months

Portfolio at college level:

1. Placement Coordinator 2009-2025
2. Department NAAC Coordinator
3. In-plant Training Coordinator
4. Lab In-charge, Digital Signal Processing Laboratory

Conferences/FDP attended:

- 1) Faculty development workshop in MPMF Polytechnic, Sion, Mumbai.
- 2) Workshop on UML in K J Somaiya College of Engineering Vidyavihar, Mumbai.
- 3) Mission 10X Workshop 2009 in BVDUCOE Pune
- 4) Mission 10X Workshop -II 2010 in BVCOEW Pune
- 5) Lab view workshop under TEQIP July 2014 in BVDUCOE Pune
- 6) Leadership for teaching faculty in BVDUCOE Pune in 2014
- 7) Workshop on Image & Video Processing by Wavelet Technologies in 2015
- 8) A course on DSP @ IIT Bombay November 2015.
- 9) FDP on GNSS Signal Processing @ Osmania University Hyderabad 2016.
- 10) Symposium on research areas in GNSS signal processing Osmania University Hyderabad 2017.
- 11) FDP on 'DSP and Sensors' NIT Warangal Dec 2018

- 12) Online course on 'Global Leadership for Tomorrow'2020
- 13)Online Course on MATALAB, Deep learning, Machine learning.
- 14) Online FDP on Innovative approaches on Management.2020
- 15) FDP on Drones in IIT Goa in May 2025
- 16) FDP on AI for sustainable development during December 2026 in VIT Pune.

Publications:

1. Hybrid Optimization Algorithm for reliable routing in Wireless sensor Network SP Shankar Madkar, Aparna Patil, Mangal Patil, Anuradha Nigade, Sonali Pawar SSRG International Journal of Electrical Engineering 11 (12), pp. 255-262.
2. Real-Time FPGA Integration for Image Steganography Using Haar wavelet and Least Significant Bit Technique M Patil, S Madkar, J Morbale, H Hemane.
3. Hybrid protocol for Cluster Head selection for energy efficient routing in WSNS Madkar, SA Pardeshi, MS Kumbhar2023 International Conference on Electrical, Electronics, Communication.
4. Hybrid Optimization Algorithm for reliable routing in Wireless sensor Network SP Shankar Madkar, Aparna Patil, Mangal Patil, Anuradha Nigade, Sonali Pawar SSRG International Journal of Electrical Engineering 11 (12), pp. 255-262.
5. Machine Learning Based CH Selection for Energy Efficient Routing in WSNS Madkar, S Pardeshi, MS Kumbhar, 2023 7th International Conference On Computing, Communication, Control And Automation (ICCUBEA).
6. Machine learning based efficient routing protocol in wireless sensor network S Madkar, S Pardeshi, MS Kumbhar Salud, Ciencia y Tecnología 2, 195-195
7. Network Communication Technologies and its Role in Enabling Effective Communication Abdullah Haider Shamsan, Sandeep Balu Raskar, Supratim Saha, Kymbat Suleimenova, Shankar Madkar, Akmaral Sagybekova 2022/4/282022 6th International Conference on Trends in Electronics and Informatics (ICOEI).
8. Design & implementation of smart Ventilator for respiratory Diseases, S K Pawar, AS Nigade, S R Madkar, V P Kaduskar, AS Patil, SV Dhole NACICE2023.
9. Design & Implementation of Wireless Transceiver for Data Acquisition in Wireless Sensor Network Volume 3, Issue 7, July 2013 ISSN: 2277 128X International Journal of Advanced Research in Computer Science and Software Engineering.
10. A comprehensive review of MAC protocols in Wireless sensor networks. S R Madkar, SA Pardeshi ICERI international Conference, TEC, Mumbai
11. Robot Controlled Car Using Wi-Fi Module
12. GSM based Meter Billing System SDSKS Srivastav, S R Madkar

13. Design & implementation of wireless transceiver for data acquisition in wireless sensor network RK Prasad, SR Madkar, 2013, International Journal of Advanced Research in Computer Science and Software Engineering Volume3, Issue7,521-526.
14. The smart handwritten digits recognition using machine learning algorithm, Nachaat Mohamed, R Josphineleela, Shankar Rakhamaji Madkar, J Vasantha Sena, Badria Sulaiman Alfurhood, Bhasker Pant, 2023 3rd international conference on advance computing and innovative technologies in engineering (ICACITE).

Patents/ Copyright: Patent Application No:202611035140

Privacy-Preserving user Authentication Framework using Blockchain and zero-knowledge proof techniques

Projects/ Achievements:

- Received AICTE grant of 3.0 Lacs for conduction of online STTP
- conducted three STTPs on Computer Networking in 2020