National and International Conference:

1. **Lukesh Parida** & Sumedha Moharana, "An optimized strategy for estimating the rate of hydration of concrete using PZT sensors", In ***10th ECCOMAS Thematic Conference on Smart Structures and Materials,*** **Patras, Greece.**
2. Mayank Kamal, **Lukesh Parida** & Sauvik Banerjee, "Application of electromechanical impedance and particle swarm optimization for probabilistic damage localization of weld cracks in portal steel frame", In ***SPIE Smart Structures + NDE 2025, Vancouver, B.C., Canada.***
3. **Lukesh Parida,** Mayank Kamal & Sauvik Banerjee, "Probabilistic Damage Localization and Uncertainty Analysis of Weld Cracks in Portal Steel Frame Based on Vibration and Electromechanical Impedance Technique", In ***15th International Workshop on Structural Health Monitoring (IWSHM 2025),*** **Stanford University, USA.**
4. **Lukesh Parida,** Sumedha Moharana & Sourav Kumar giri, "Machine Learning Based Optimization Techniques for Predictive Strength of High Performance Concrete: Enhancing Sustainable Development", In ***IABSE Congress 2023, New Delhi.***
5. **Lukesh Parida,** Amer Iliyas Rather & Sauvik Banerjee, "Feasibility of Monitoring Bond Integrity in GFRP-Concrete Members Using Impedance-Based Monitoring Systems: A Novel Power Spectral Based Approach", In ***34th Annual Conference and Exhibition on Nondestructive Evaluation & Enabling Technologies (NDE 2024),*** **Chennai, India**. (Best Presentation Award)
6. **Lukesh Parida,** Bhavini Garg, Sumedha Moharana, Sourav Kumar Giri & Sauvik Banerjee, "Application of Extreme Learning Machine (ELM) Algorithm for Predicting Life Expectancy of Concrete Structures Using Nondestructive Test Results: A Comparative Study", In ***34th Annual Conference and Exhibition on Nondestructive Evaluation & Enabling Technologies (NDE 2024),*** **Chennai, India.**
7. **Lukesh Parida** & Sumedha Moharana , "Electromechanical impedance techniques for novel sn-ag alloy bond layer damage detection using experimental and numerical modelling", In ***International Conference on Condition Assessment, Rehabilitation & Retrofitting of Structures (CARRS) 2023*****, Indian Institute of Technology (IIT) Hyderabad.** (Best Presentation Award)
8. **Lukesh Parida,** Sumedha Moharana & Sourav Kumar Giri , "Detection and Prediction of Bond Degradation for Piezo Impedance based Structural Health Monitoring (PISHM) Using Hybrid Deep Learning Model", In ***4th Structural Integrity Conference and Exhibition (SICE) 2022*****, Indian Institute of Technology (IIT) Hyderabad.**
9. **Lukesh Parida** & Sumedha Moharana, " Multisensing Integration of Piezoelectric Sensors for The Health Monitoring of Constructional Steel Rebar: A Baseline Approach", In ***Young Researchers Conclave 2023, CSIR-CRRI, New Delhi.*** (Best Poster award).
10. **Lukesh Parida** & Sumedha Moharana, "Application of Deep Learning Approach for Predicting Electromechanical Impedance Signal of Steel- Concrete Bond Failure: Baseline Free Approach", In ***9th International Workshop of Civil Structural Health Monitoring*****, CSHM-9 2024.**
11. **Lukesh Parida** & Sumedha Moharana, "Monitoring and damage detection of construction steel structure using piezo transducer for electro-mechanical impedance techniques", In ***2nd International Conference on Materials, Mechanics & Structures (ICMMS 2022),*** In **NIT Calicut**.
12. **Lukesh Parida** & Sumedha Moharana, "Strength evaluation and prediction of cement concrete by deep learning classification using nondestructive test results", In ***NDE 2021- conf. & Exhibition***, 9-11 Dec 2021, **Bengaluru, India.**
13. **Lukesh Parida,** Mayank Kamal & Sauvik Banerjee, "A Robust Data Driven Framework for The Automated Identification of Weld Damage in Portal Steel Frames Using Impedance- Based Diagnostics", In ***34th Annual Conference and Exhibition on Nondestructive Evaluation & Enabling Technologies (NDE 2024),*** **Chennai, India.**
14. **Lukesh Parida,** Sumedha Moharana & Rajalaxmi Pati, "Comprehensive Review on Advances in Artificial Intelligence for Prediction of Bond Strength Between Reinforcement and Concrete", In ***NCINTCE 2023, Bhubaneswar.***
15. **Lukesh Parida** & Sumedha Moharana, "Machine Learning Approach for Predicting Impedance Signatures of Construction Steel Structures in Various Tensile Pull Actions", In ***2nd International Conference on "Construction Materials and Structures (ICCMS-2022),*** jointly organized by ***NIT Calicut, University of Bath, Purdue university.***
16. **Lukesh Parida** & Sumedha Moharana, "Flexural Bond Strength Measurement of reinforced concrete structure Using Piezo Impedance-Based SHM (PISHM): A Review", In ***4th Structural Integrity Conference and Exhibition (SICE) 2022***, Indian Institute of Technology (IIT) Hyderabad.
17. Mayank Kamal, **Lukesh Parida** & Sauvik Banerjee, "A novel Bayesian-optimized Gaussian mixture model classifier for weld damage detection in steel portal frames under limited impedance- based experimental data", In ***2nd International Conference on Condition Assessment, Rehabilitation & Retrofitting of Structures (CARRS) 2023***, **IIT Roorkee.**