

# 2024 IEEE 7TH INTERNATIONAL CONFERENCE ON CONDITION ASSESSMENT TECHNIQUES IN ELECTRICAL SYSTEMS

(CONFERENCE RECORD # 60527)

# IEEE CATCON 2024

22 – 24 NOV, 2024, KOLKATA, INDIA

**SUBMISSION DEADLINE:**  
11:59 PM IST | MAY 31, 2024

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### Conference Deadlines:

- Paper submission link opens in website: **20th February, 2024**
- Paper submission closes: **31st May, 2024**
- Notification of acceptance: **7th August, 2024**
- Final Camera-ready paper submission: **15th October, 2024**

### BECOME A SPONSOR:

As the 2024 IEEE 7th International Conference on Condition Assessment Techniques in Electrical Systems (CATCON 2024) approaches, we invite organizations to join us as sponsors and be an integral part of this prestigious event. Your support will contribute significantly to the success of the conference and help advance the field of condition monitoring and assessment.

### SPONSORSHIP CATEGORIES:

We offer three distinct sponsorship categories, each providing a unique opportunity to showcase your commitment to the field and gain valuable visibility:

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- Six complimentary conference registrations
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### WHY SPONSOR CATCON 2024?

Sponsoring CATCON 2024 provides a unique platform to showcase your organization's commitment to innovation, research, and technological advancements in the electrical systems domain. It is an unparalleled opportunity to connect with industry leaders, researchers, academics, and practitioners from around the world.

By becoming a sponsor, you not only contribute to the success of the conference but also gain valuable exposure to a diverse and influential audience. Your brand will be prominently featured in conference materials, reaching a wide spectrum of professionals engaged in condition assessment techniques.

### HOW TO BECOME A SPONSOR:

To seize this opportunity and become a sponsor for CATCON 2024, please contact our General Chair at [sivaji.juee@gmail.com]. We look forward to partnering with organizations that share our vision for advancing knowledge and innovation in electrical systems.

**Join us in shaping the future of condition assessment techniques – become a sponsor of CATCON 2024!**

### SPONSORS AT A GLANCE:

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Conference Website: <https://www.catcon2024.com>

2024 IEEE 7th International Conference on Condition Assessment Techniques in Electrical Systems (CATCON 2024) is organized by the Dielectrics and Electrical Insulation Society (DEIS) Chapter of IEEE Kolkata Section. It will be held during November 22-24, 2024, in Kolkata, India.

This conference is being organized for the seventh time, which is in line with the present day requirements in the global scenario of various condition assessment techniques for a variety of electrical systems. Its goal is to provide a broad coverage and dissemination of fundamental research in condition monitoring and assessment among researchers, academics, industry and practitioners. Around 150 delegates are expected to attend and will be one of the biggest gatherings in this field of research. The technical program of 2024 IEEE CATCON will consist of tutorials, invited talks, posters and oral presentations. **Accepted and presented papers will be sent to IEEE for archival and publication in IEEE Xplore® Digital Library.** Research papers describing original work on theories, methodologies, abstractions, algorithms, industry applications and case studies are invited. IEEE CATCON 2024 will not consider abstracts but will consider full papers within the scope of the conference for review.

### THE TOPICS INCLUDE BUT ARE NOT LIMITED TO

#### Track 1:- Condition Assessment of Electrical Equipment and Machines

Condition Monitoring of Solid, Liquid, Gas, and Composite Insulation in Electrical Equipment using Time-Domain and Frequency-Domain Techniques, Dielectric Ageing Mechanisms and their assessment, Nano-Dielectrics, Noise and Vibro-Acoustic Monitoring, Optical Monitoring, Flow, Pressure, Temperature Monitoring, On-line and Real-time Condition Monitoring, Thermography, Modeling and Simulations for Condition Monitoring, Condition Monitoring of Electrical Machines including insulation and allied Instrumentation System.

#### Track 2:- Condition Monitoring Applications using AI and Machine Learning and Allied Techniques

AI-Powered Condition Monitoring, Machine Learning for Fault Detection, Real-time Anomaly Detection, Deep Learning for Equipment Health Assessment, Ensemble Methods for Power System Diagnostics, Pattern Recognition for Fault Classification and Grid Monitoring, Data Mining in Transmission and Distribution Networks, Image Processing for Substation Assessment, Energy-Efficient Computing for Grids, Ubiquitous Computing in Power System Monitoring, Distributed Computing in Substation Health, Adaptive Computing for Grid Condition Assessment.

#### Track 3:- Condition Monitoring applications for Industry including Power Systems and Intricate Electrical Systems

Strategic Planning and Asset Management, Complex Interconnected and Interdependent Systems of Systems (SoS), Gas Insulated Systems (GIS), DC Insulation Systems, Issues related to Smart Grid and Industry Applications, Monitoring Systems and Measuring Devices for High Voltage Power Apparatus, Transmission Lines and Power Generating Units, Power Quality Monitoring and Assessment, Monitoring and Operation of Micro-grids, Condition Assessment of Power System Components employing Power Electronics and Drives, Monitoring of Power System Components involving Renewable Energy Sources, Damage and Failure Analysis, Fault and Cyber Threat Tolerant Power System, Stability, Operation, Planning, Prognostics, and Condition Assessment related to Phasor Monitoring Unit, SCADA, FACTS, TCSC, Active Power Filters, Energy Conversion. Condition Monitoring of LV, MV, HV and UHV Cables and Accessories including AC and DC Cable Systems.

#### Track 4:- Advanced Condition Assessment Applications involving interdisciplinary research

Condition Monitoring of Bioengineering and Biomedical Systems, Advanced Signal Processing for Power System Monitoring, Data-Driven Analytics for Condition Assessment, Integrated Sensor Fusion Methods, Power System Condition Monitoring using Intelligent Diagnostics, Multi-Sensory Approach to System Monitoring, Optimal Asset Management Strategies, Quantitative Risk Assessment in Power Networks, Cyber-Physical Integration for Condition Assessment, Reliability Engineering in Integrated Power Systems.



### Conference Venue:

The conference will be held in the Jadavpur University Main Campus, which is at the heart of Kolkata, one of the largest metropolitan cities of India.

### Local Host:

High Voltage Laboratory, Jadavpur University.

### CONTACT

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