



# IEEE 8th International Conference on Condition Assessment Techniques in Electrical Systems

**Conference Dates:**  
December 18-20, 2026

**Location:**  
Dept. of Electrical Engineering  
Indian Institute of Technology (Indian  
School of Mines), Dhanbad, Jharkhand, India  
826004

**Important Dates:**  
Full- paper submission opens: April 15, 2026  
Full-paper submission deadline: July 15, 2026  
Acceptance Notification: October 15, 2026

**General Chairs:**  
Prof. Sukanta Das, IIT(ISM), Dhanbad  
Prof. Sivaji Chakravorti, Jadavpur University  
Prof. C.C. Reddy, IIT Ropar

**Organizing Chair:**  
Prof. A. Baral, IIT(ISM), Dhanbad

**Organizing Co-Chairs:**  
Prof. P.K. Nayak, IIT(ISM), Dhanbad  
Prof. G. Shankar, IIT(ISM), Dhanbad  
Prof. A.S. Hati, IIT(ISM), Dhanbad

Prof. B. Chatterjee, TPC Chair  
Jadavpur University

Prof. B.K. Naick, Finance Chair  
IIT(ISM), Dhanbad

**Dr. T. Bhavani Shanker, Industry Chair**  
Former Additional Director, CPRI

## Call for Papers

Welcome to the 8th ed of IEEE International Conference on Condition Assessment Techniques in Electrical Systems (CATCON 2026), which will be held at the Department of Electrical Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand, India. The conference is planned to be in-person, from Friday to Sunday, December 18-20, 2026.

The CATCON conference series was initiated to provide a specialized technical platform addressing issues concerning diagnostics, monitoring, and reliability assessment of electrical power assets, with strong relevance to the core interests of IEEE Dielectrics and Electrical Insulation Society (DEIS). Over the years, CATCON has evolved into a well-established technical conference series, with seven successful editions organized across leading academic institutions in India. To date, seven editions of CATCON have been successfully organized at premier academic institutions across India.

## Major Topics:

- PD, dielectric response, and on-line diagnostics
- Space charge, DC aging, polarity reversal
- Bushings, transformers, liquid insulation monitoring
- Pollution, corona, surface degradation
- Modeling of UHVAC/HVDC insulation stress
- PD, PDC, dielectric spectroscopy
- Thermal, environmental, mechanical aging
- Transformers and oil-filled equipment
- RUL estimation and degradation modeling
- Converter-fed motor insulation diagnostics
- Fast switching, dv/dt-induced aging
- Traction, EV charging, DER insulation challenges
- Performance-reliability modeling
- AI/ML for PD and dielectric data interpretation
- Physics-informed ML, digital twins
- Aging-aware prognostics and RUL estimation
- Decision support for networked assets
- High-frequency stress, EMI, insulation aging
- Embedded sensing, online monitoring
- Advanced materials for converter environments, Nanodielectrics
- SSTs, IoT-based frameworks

For more information about IEEE CATCON 2026 and Tourist interest in and around Dhanbad scan