

ICCIC-2020

International Conference on Contemporary Issues in Computing

Organized by The Electro Inventor, Saraju Villa, 5A Khalisa Kota Pally Birati,
Kolkata-700051, India
On 21st-22nd March 2020.

***** CALL FOR PAPERS *****

SPECIAL SESSION ON

Recent Trends in Condition Monitoring Techniques of Electrical Equipment

SESSION ORGANIZERS:

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SESSION DESCRIPTION:

Over the past few years, electrical utilities all around the globe are primarily interested in asset management and proper utilization of their resources. In order to maximize the service life of electrical equipment, condition monitoring at appropriate intervals is necessary. Considering this aforesaid fact, this special session will be dealing with recent trends and advanced techniques for condition monitoring of different electrical equipment like transformers, insulators, cables, induction motors etc. Recently, application of advanced signal processing and machine learning algorithms (deep learning) has also been found to deliver promising results for condition assessment of electrical equipment. The main aim of the special session is to provide an unique opportunity for students as well as faculty members working in the area of electrical engineering, mechanical engineering, computer science engineering, material science, physics and chemistry to discuss, exchange ideas and also provide some insight into the future diagnostic techniques for condition assessment of electrical equipment.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

- Condition monitoring techniques of transformers, insulators, circuit breakers, cables etc.
- Invasive and non invasive techniques for insulation diagnosis
- Nano-dielectrics and their application
- Diagnostic techniques of DC insulation systems
- Application of signal processing techniques for leakage current analysis of insulators, surge arresters etc.
- Space charge accumulation and measurement techniques
- Partial discharge measurement, detection and classification techniques
- Condition monitoring of rotating machines.
- Detection and classification of induction motor faults

- Bearing fault and gear fault detection of rotating machines using signal processing and machine learning techniques

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **Recent Trends in Condition Monitoring Techniques of Electrical Equipment on or before 1st March,2020**. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT PREPARATION at <http://iccicstm.com/guide.php> and SUBMISSIONS at <http://iccicstm.com/papersub.php>. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify **Recent Trends in Condition Monitoring Techniques of Electrical Equipment** at the top (above paper title) of the first page of your paper.

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