



# CALL FOR PAPER

## 2023 The 4th International Conference on Power and Electrical Engineering

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 Singapore
  November 3-5, 2023

**Submission Deadline**  
**September 7, 2023**

**Notification Deadline**  
**September 26, 2023**

**Registration Deadline**  
**October 5, 2023**

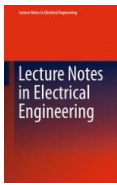
## Track 3: Transformer Design, Analysis, and Fault Diagnosis

Chair: Assoc. Prof. Dezhi Chen, Shenyang University of Technology, China

### Brief Introduction


Electromagnetic devices such as power transformers and reactors are among the most important pieces of equipment in the power system and are the basis for ensuring the reliability of the power supply. When the power grid is rich in a large number of DC and harmonics, the transformer will have a serious bias magnetic saturation phenomenon, resulting in increased magnetic leakage of the core, increased loss of metal structural parts, increased temperature rise, local overheating, insulation damage, noise increase, vibration intensification, and other consequences. Therefore, how to reduce the loss and temperature rise of the transformer, reduce the vibration and noise under the premise of ensuring the performance of the power transformer, and diagnose the fault of the transformer to ensure the safe and stable operation of the transformer is of great significance.

### Publication

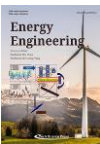


Accepted papers will be published into the **Lecture Notes in Electrical Engineering** (Electronic ISSN: 1876-1119) as a proceedings book volume.

Indexed by **Ei Compendex, Scopus**, etc.

 **Springer**

### Special Issue-Energy Engineering



Selected registered papers with proper extension will be recommended for potential publication in **Energy Engineering**.  
**ISSN: 0199-8595 (Print), 1546-0118 (Online).**

Indexing: **Ei Compendex/Engineering Village (Elsevier); Scopus (Elsevier)**; etc.

### Topics

- ◆ Characteristic Analysis and Application of New Material in Transformer
- ◆ Optimistic Methods for Transformer Design
- ◆ Analysis of Transformer Electromagnetic Fields, Temperature Distribution, Vibration, and Noise
- ◆ Design and Manufacturing of Online Detection Devices for Transformer
- ◆ Application of New Intelligent Algorithms in Transformer Fault Diagnosis

### Submission Methods

- ◆ Online Electronic System: [http://confsys.iconf.org/index.php/submit/paper/track\\_id/20/short\\_url/icpee2023.html](http://confsys.iconf.org/index.php/submit/paper/track_id/20/short_url/icpee2023.html)
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 Abstract Template

**Full Paper Note: No less than 8 pages(10 pages preferred, 15 pages maximum)**  
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