



## IEEE International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED 2025) Call for Tutorials

<b>Jan 31, 2025</b>	<b>- Tutorial Proposal Due</b>
<b>April 01, 2025</b>	<b>- Notification of Acceptance</b>
<b>July 15, 2025</b>	<b>- Full Tutorials Materials Due</b>

The 15<sup>th</sup> Edition of IEEE International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED 2025) seeks to address all aspects of condition monitoring and fault diagnosis of electrical machines, power electronics and drives.

A diverse portfolio of tutorials are solicited for SDEMPED 2025, including: 1) Fundamental knowledge in a particular subfield of condition monitoring of electric machines, power electronics and drives; 2) Advances in reliability of materials & insulators for electric machines, drive systems and components; 3) Industry skillsets or tools on fault diagnosis and condition monitoring of electric machines and drives with knowledge beyond textbooks or academic papers. Technical topics of interest include but are not limited to: fault diagnosis of electrical machines and drives applications in industry applications, algorithms for IoT based solutions, AI-assisted condition monitoring systems, and advancements in fault diagnosis and condition monitoring across various applications. All tutorials will be held on **Sunday, Aug 24, 2025**, either morning or afternoon. Each tutorial is 3 hours long, excluding break times. Each accepted tutorial will receive either one free full registration or with an honorarium of \$1,000 given to the lead instructor, to be split among the contributing instructors. Publication of a technical paper that is related to the tutorial will require a paid full registration. Presenters should be ready to present in-person, if circumstances permit.

One or more of the following elements are strongly encouraged in the tutorial proposals:

1) Industry-led or co-hosted lectures; 2) Interactive instructor-audience approaches, including hands-on; 3) SDEMPED 2025 regionally oriented topics; 4) Collaborative cross-disciplinary topics or teams; 5) Other creative topics or formats that engage the audience.

Factors considered as less attractive to the audience are: 1) Narrowly focused topics; 2) Theory heavy lectures; 3) Similar tutorial topics or teams from the immediate past SDEMPED, IEMDC, ECCE or other major recent conferences in this area; 4) Solicitation of a particular product or service.

Potential topic areas include but are not limited to:

- Fault Diagnostics and Condition Monitoring of Electrical Machines and Drive Systems
- Reliability Assessment of Power Switches, Gate Drives and Passive Components
- Artificial Intelligence (AI) and Machine Learning (ML) based Condition Monitoring, Fault Diagnosis
- AI-Assisted Systems and Digital Twin Technologies for Condition Monitoring Algorithms
- Aging Monitoring Issues of Materials used in Electrical Machines, Drives and Power Switches

**Proposal Submission and Review Process:** All tutorial proposals should be submitted via email to Tutorial Chair: Taner Goktas (taner.goktas@deu.edu.tr). Please complete the tutorial proposal application on this page. A panel of subject matter experts will review the proposals.

