

# IEEE SDEMPED 2021

## Call for Papers

IEEE International Symposium on Diagnostics for  
Electric Machines, Power Electronics and Drives (SDEMPED)

**August 22-25, 2021 Dallas, TX, USA**

**Conference Venue:** Embassy Suites by Hilton, Grapevine

The topics of interest include, but are not limited to:

### **ELECTRIC MACHINES and DRIVES**

- Fault diagnosis and condition monitoring of electrical machines and drive systems
- Electrical, mechanical and thermal models for machine reliability and fault analysis
- Fault tolerant electric machines, drives and control schemes
- Advances in reliability of materials & insulators for electric machines, drive systems and components

### **POWER ELECTRONICS and COMPONENTS**

- Reliability assessment and condition monitoring of Si and WBG power devices, passive components and batteries
- Failure mechanism and modes, identification of fault precursors, and accelerated aging techniques

### **ALGORITHMS**

- Lifetime modelling and RUL estimation tools
- IoT solutions, sensor data transfer and on-chip/cloud data processing, data analytics and information fusion
- Artificial intelligence and machine learning assisted solutions for fault detection, diagnosis and prognosis
- System/parameter identification tools, signal processing techniques, observers...

### **SYSTEMS & APPLICATIONS**

- Reliability and condition monitoring advancements in various applications: Transportation, grid-tied systems, renewable energy systems, robotics etc.

### **IMPORTANT DATES**

All Submissions Open:	October 1, 2020
Tutorial and Special Session Proposal:	January 15, 2021
Manuscripts Submission Deadline:	March 1, 2021
Final Acceptance Notification:	April 30, 2021
Final Draft Submissions:	June 1, 2021

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