

# IEEE International Conference on Power Electronics, Drives and Energy Systems

IIT Madras, Chennai, India

**18-21 December 2018**



**PEDES 2018**

## Final Call for Papers

### About PEDES 2018

Power Electronics, Drives and Energy Systems (PEDES) is a biennial conference sponsored by four Societies of IEEE - the Industry Applications Society, Power Electronics Society, Industrial Electronics Society and Power and Energy Society. The first edition of the conference was held in 1996 at New Delhi, India. It has subsequently been held in Perth Australia, New Delhi, Bengaluru, Mumbai with the last in the series being held at Thiruvananthapuram in 2016. The eighth in the series i.e. PEDES 2018 will be held in Chennai, India during **18 - 21, December 2018**. The event will be hosted at the Indian Institute of Technology (IIT) Madras in Chennai.

The conference will feature industry sessions, keynotes and special sessions. The three days of the conference are themed towards Electric Vehicles on 19th Dec, Renewable Power on 20th and Industrial Drives on 21st. Keynote talks, Industry sessions and Special Sessions are planned on all three days focusing on the respective theme areas. Tutorials from leading researchers / industry are planned on 18th.

The conference invites submission of original papers in the areas as below. Submissions showing substantial developmental effort, analysis and case studies are also encouraged.

### Regular Sessions

Original technical papers are solicited on the topics pertaining to the scope of the Conference will include, but are not limited to:

**Power Converters:** AC/AC, AC/DC, DC/AC and DC/DC Topologies, modeling and Control

**Electrical Machines:** Modeling, Analysis and Design of rotating and linear machines and electromagnetic devices

**Industrial Drives:** Converters, Operation and Control

**Renewable Energy:** Distributed Power Generation, Control and Grid Interaction

**Smart & Micro Grids:** Modeling and Control, Integration of Multiple Energy Sources, Economics of Smart Grids and Micro grids

**Energy Storage:** Role and Operation in Grids and Microgrids, Charging and Discharging, Battery Management Systems, Battery Engineering, Battery use and reuse

**Power Quality:** Quantification and Estimation of Disturbances in transmission and distribution Networks, Converters and Control for improving power quality.

**Power Flow Control:** Reactive and active power controls, FACTS devices.

**Transportation:** Power Electronics and motor control for xEV Applications, charging methods and standards, Wireless Charging, G2V and V2G applications, Aircraft and space applications, Railway Traction applications.

**EMI:** EMI and EMC issues in Power Electronic System Design and Packaging, Methods of Analysis and filters.

**Components and Devices:** Power Device modeling and Device Drivers, Packaging of Devices, systems and thermal issues, Magnetic materials and Component design, passives and filter designs

**Power Engineering Education:** Teaching concepts in Power Engineering and Laboratory Innovations.

**Policy Issues:** Policies for Distributed Generation, Smart Grids and operation with increased renewable penetration.

### Important Dates

Opening date of submission of digest:

**16-02-2018**

**Submission deadline for digests:**

**20-05-2018**

Acceptance notification of digest:

**16-07-2018**

Final submission of full manuscript:

**17-09-2018**

### Sponsors



All presented papers qualify for submission into IEEE Transactions on Industry Applications