

16TH IEEE INTERNATIONAL CONFERENCE

Power Electronic Devices and Systems

CALL FOR PAPERS

IEEE PEDS 2027 | 25–27 August 2027 | Singapore

Sponsor: IEEE Singapore Section IA/PEL Joint Chapter



Authors are invited to submit original research and application papers in power electronic devices and systems.

SCOPE INCLUDES, BUT NOT LIMITED TO:

POWER ELECTRONICS

- Converter topologies, modulation and control
- Electrification and motion control
- Renewable energy, storage and charging
- Passive components, EMI and thermal management

SYSTEMS & APPLICATIONS

- Smart grids, microgrids and distributed energy
- Power quality, stability and protection
- Transportation electrification
- Industrial, aerospace and consumer applications

POWER DEVICES

- Si, SiC, GaN and emerging power devices
- Power ICs, modules and gate drivers
- Packaging, integration and thermal design
- Reliability, testing and condition monitoring

EMERGING TECHNOLOGIES

- Modelling, simulation, HIL and digital twins
- AI and data-driven control
- Sustainable and resilient design
- Biomedical engineering, rehab systems
- Education, laboratories development

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IMPORTANT DATES

Regular Paper Submission: **31 March 2027**

Acceptance Notification: **15 May 2027**

Late Paper Submission: **1 May 2027**

CONFERENCE VENUE

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