

2026 IEEE 8th ICDCM

in Xi'an, Shaanxi Province, China

June 12-14 2026

Call for Papers

The 8th IEEE International Conference on DC Microgrids (ICDCM) will be held on June 12-14, 2026 in Xi'an, China. This conference, sponsored by the IEEE Power Electronics Society (PELS) and organized by Xi'an Jiaotong University, serves as a premier global platform for showcasing groundbreaking research and advancements in DC microgrid technologies. Bringing together researchers, engineers, and industry professionals, the event fosters collaboration and knowledge exchange in this rapidly evolving field. Attendees can expect a technical program featuring keynote speeches, tutorials, sessions and excursions.

Important Dates

Digest submission due: ~~Jan 11, 2026~~ Feb 10, 2026

Notification of acceptance: Mar 20, 2026

Final paper submission: Apr 15, 2026

Prospective authors are invited to submit 2-page digests in English, following instructions on the website (www.icdcm2026.com).

Topics

(include but not limited to)

Power Electronics Technologies

- Power electronics devices
- Converters (AC-DC, DC-DC, solid-state transformers, energy routers, etc.)
- Converter control and stability
- High-efficiency power conversion
- Reliability, health management and fault diagnosis
- Protection and fault-ride through
- EMI design and control
- Standards for converters

System Technologies

- System architectures
- System control and stability
- Protection techniques and hardware
- System security and resiliency
- Islanding detection and operation
- Hybrid AC and DC microgrids
- Standards, policies, and regulations

Existing and Emerging DC Applications

- Distribution and sub-transmission
- Integration of renewables and energy storages
- Transportation electrification
- Electric vehicle charging infrastructure
- Remote and rural nano-grids
- Conventional and AI data centers
- Smart buildings and homes
- Industrial and commercial systems
- Shipboard, aviation and space

Other Advanced Technologies

- Modeling and simulation techniques
- Communication and digitalization
- Measurement and sensing techniques
- AI, big data, digital twins and cloud
- Wireless power transfer

Publication

The conference proceedings will be submitted for inclusion to IEEE xplora online digital library and EI Compendex database.