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call for papers

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Distribute, Integrate, and Electrify with Power Electronics

The PEDG 2024 is an international symposium sponsored by the IEEE Power Electronics Society (PELS) and hosted by the Luxembourg Institute of Science and Technology (LIST). Following enlightening symposiums in Charlotte, Xi'an, Croatia, Kiel, and Shanghai, which attracted around 300 participants each, the 15th IEEE International Symposium on Power Electronics for Distributed Generation Systems (PEDG 2024) will convene in the picturesque city of Luxembourg. This event provides an international platform for discussing how our expertise in power electronics can transform distribution systems, leading us towards a more sustainable future.

PEDG 2024 promises a dynamic fusion of plenary speeches, tutorials, and technical sessions. These sessions will delve deep into the theory, analysis, design, and deployment of power electronics for distributed generation, energy storage, and sustainable sources.

All the PEDG 2024 papers will earn EI-indexing and inclusion in IEEE Xplore. Selected papers will be considered for publication in special issues or sections of IEEE PELS journals, including JESTPE and TPEL. Moreover, student travel grants and best paper awards await you!!

TRACK 1 | Power Electronics for Sustainable Sources

Advancements in power converters/controls for diverse sustainable sources and hydrogen technologies, efficient power conversion using innovative technologies, applications of solid-state transformers in dc distribution/transmission, and the monitoring and protection standards of distributed generation systems.

TRACK 2 | Energy Storage in Distributed Power Systems

Power electronics in energy storage systems and electric vehicles, including their application in batteries, supercapacitors, hybrid storage systems, and vehicle charging, alongside energy management strategies for system planning, sizing, and diverse case solutions.

TRACK 3 | Power Systems Driven by Power Electronics

Power electronics in microgrids and nanogrids, distributed generation, and as power stations, addressing topics such as grid interconnection, islanded operation, electric power quality impacts and mitigation, grid forming, demand response, and strategies for high distributed generation penetration and renewable forecasting.

TRACK 4 | Emerging Topics

New power semiconductors, cybersecurity, AI, big data, policy issues, and realtime simulation in renewable energy systems, with a particular focus on their roles in power electronics-based distributed and sustainable generation systems.

Important dates

Digest Submission Due

January 31, 2024

Notifications of Acceptance

March 31, 2024

Final Paper Due

April 30, 2024

Submit your contributions

Digest in English, no more than **Five Double-Column Pages** (including references). For detailed guidelines on the **Extended Abstract Templates and Submission Process**, visit our website:

https://www.pedg2024.lu/call_for_papers

Contact: pedg2024@list.lu