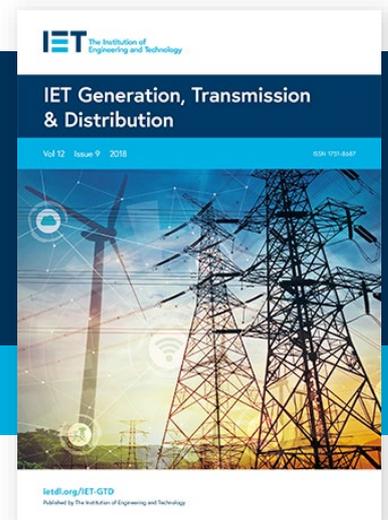


IET Generation, Transmission & Distribution Call for Papers



Submission Deadline: 31st December 2022 | **Publication Date:** October 2023

Editors-in-Chief: Prof Christian Rehtanz, TU Dortmund, Germany
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Special Issue on:

Selected Papers from the International Conference on Renewable Energies and Smart Technologies (REST-22)

This conference aims to bring researchers, engineers, and key stakeholders interested in cutting-edge findings in REST to share and discuss advances and developments in these fields. Therefore, it aims to assist academicians, business executives, researchers, scientists, companies, communities, and agencies to keep up to date on new developments in their specialist fields and join forces in finding alternative energy solutions to current environmental and climate issues.

The ongoing energy transition calls for a shift to clean energy and technologies. In parallel, fostering innovations over the last decade has shifted energy production from the centralised to distributed sources and how the system operates with a broader, and complex infrastructure. Long-term energy scenarios have become invaluable tools to facilitate international debate and guide national policymaking to accelerate the sustainable energy transition over the coming decades.

Topics of interest include, but are not limited to:

- Data management, forecasting, and optimisation for energy systems
- Conventional and innovative-based renewable energy sources (RESs)
- Inverter-based RESs, i.e., wind and solar, grid forming/following RES
- Distribution grid observability, automation, and supply quality
- Frequency regulation and control under high penetration of RESs
- Energy management- prosumers, energy communities, and aggregators
- Network digitalisation and smart metering infrastructures
- Flexibility services and demand response programs
- Security of supply and generation adequacy in renewable-based systems
- Protection schemes, islanding, and microgrids operation
- Decision-making under uncertainty in distribution networks
- Electrification and application of renewable energies in transportation sectors, e.g., electric vehicles and marine energy systems
- Electrification of the heat/cooling sectors
- Application of ICT and data-driven methods for power system automation

This Special Issue is open only to invited papers from the REST-22 Conference.

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