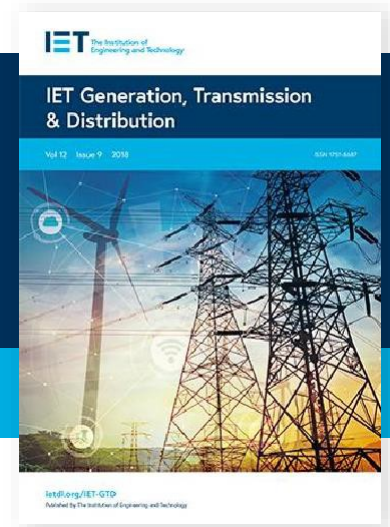


# IET Generation, Transmission & Distribution

## Call for Papers

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Editor-in-Chief: Prof Christian Rehtanz, TU Dortmund, Germany  
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## Special Issue on: Recent Trends of Power Flow Control in Power System Networks

The electric power supply systems are widely interconnected, involving connections inside utilities' own territories which extend to inter-utility interconnections and then to inter-regional and international connections. This is done for economic reasons, to reduce the cost of electricity and to improve reliability of power supply. These interconnections are needed because, apart from delivery, the purpose of the transmission network is to pool power plants and load centers in order to minimise the total power generation capacity and fuel cost. The transmission interconnections enable taking advantage of diversity of loads, availability of sources, and fuel price in order to supply electricity to the loads at minimum cost with a required reliability. Extensive researches are being performed on recent trends for power flow control within and in-between power system networks.

The emphasis of this Special Issue is on advanced design and modelling studies of current power flow control technologies within and in-between power system networks and emerging technologies including Artificial Intelligence for modelling, control and optimisation of power flow controllers.

Topics of interest include, but are not limited to:

- Power Flow Control in Grid Operation and Management
- FACTS Devices based Power Flow Control
- HVDC Systems for power flow control of interconnected power systems
- HVDC integration within AC grids
- Optimal Power Flow Control
- Variable Frequency Transformer (VFT)
- Flexible Asynchronous AC Link (FASAL) System
- Impacts of Distributed Generation, storages and new loads (e.g. EV) on Transmission and Distribution System Power Flow Control
- Power Flow Control for congestion management and in Electricity Market
- Test systems for Simulation and Analysis of Power Flow Control in Power System Networks

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