



Planning, Operation and Control of New Power Systems

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Message from the Guest Editor

Dear Colleagues,

The new power system dominated renewable energy plays an essential role in providing the human being a clean, sustainable and low-carbon energy future across the world. However, the uncertain, intermittent and low-inertia nature of renewable generation impose great challenges on the construction, operation and regulation of power systems. It needs to make the transition to new power systems both technologically feasible and economically affordable, on their planning, operation and control.

Topics of interest for publication include, but are not limited to:

- Pathways to the low/zero carbon energy future
- Power & energy system planning with high-penetrated renewable power
- Siting and sizing of various storages including batteries, pumped hydro, hydrogen...
- Optimal Power & energy system operation with uncertainty
- Market tools to promote renewable power integration
- Control of the low-inertia power generation and power systems
- Advanced protection techniques for power electronics dominating power systems
- AI methods and applications in power systems





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Message from the Editor-in-Chief

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