

IEEE Transactions on Power Systems

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The mission of the *IEEE Transactions on Power Systems* is to serve the whole Power System community, including researchers, practitioners, educators and students, by publishing and disseminating insightful research results of lasting value.

Scope:

IEEE Transactions on Power Systems (TPWRS) welcomes papers on the education, analysis, operation, planning, and economics of electric generation, transmission, and distribution systems for general industrial, commercial, public, and domestic consumption, including the interaction with multi-energy carriers. The focus of TPWRS is the power system from a systems viewpoint instead of components of the system. It has five (5) key areas within its scope including:

1. Power System Analysis, Computing, and Economics,
2. Power System Dynamic Performance,
3. Power System Operations,
4. Power System Planning and Implementation,
5. Power Engineering Education.

TPWRS's editorial philosophy is to promote research, innovation, and exchange for the power engineering community. We believe the purpose of paper review and publication is to stimulate further development or applications by others. Therefore, if a paper has adequate contributions, is technically sound, and does not mislead readers, it deserves a chance for publication by TPWRS. We are working to make the review processes as clear and as fair as possible, improving the experiences for both authors and reviewers.

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Technical Areas & Associated Topics

Technical Areas & Associated Topics

Topics within the journal scope:

POWER SYSTEM ANALYSIS, COMPUTING, AND ECONOMICS

- Power system modelling
- Power system analysis (e.g., load flow formulations and implementation)
- Techno-economic aspects of congestion management and redispatch
- Development of data and scenarios for system expansion
- Transmission and distribution system analysis
- Techno-economic aspects of Risk management
- Reliability and resilience
- Uncertainty and probability
- Stochastic system and optimization applications
- Intelligent system applications
- Computing applications

POWER SYSTEM DYNAMIC PERFORMANCE

- Power system dynamic modeling: components and systems
- Power system stability: phenomena, analysis, and techniques
- Power system stability controls: design and applications
- Power system dynamic measurements
- Power system interaction with conventional and renewable generators
- Dynamic security assessment: techniques and applications, risk-based methods

POWER SYSTEM OPERATIONS

- Emerging methods for restructured systems
- Transmission system operation and security
- Distribution system operation
- Energy control centers
- Static and dynamic state estimation
- Transmission and distribution system control

POWER SYSTEM PLANNING & IMPLEMENTATION

- Computational techniques and analytical methods for system planning
- Generation system resource planning
- Transmission system expansion and planning
- Distribution system expansion and planning
- Customer products and services planning and implementation
- Industry restructuring planning
- Integrated and distributed resource planning
- Techno-economic aspects of Integrated resource planning
- Load forecasting, management and aggregation

POWER ENGINEERING EDUCATION

- New instruction methods (software/internet/laboratory/combined with research)
- Virtual classrooms/laboratories
- Distance education
- Life-long learning

Examples of topics out-of-scope:

- Power quality: harmonics, flicker, voltage dips, voltage sags, etc.
- Protection: all types of protection relays, circuit breakers, fuses, protection coordination, etc.
- Fault current calculations
- Grounding
- Lightning protection
- Fast electromagnetic phenomena excluding inverter-driven power system stability
- Smart sensors, smart meters, AMI infrastructures
- Blockchain technologies
- Rural electrification
- Energy communities
- Platforms for local trading
- Market specific aspects of congestion management and redispatch
- Market specific aspects of risk management
- Policy, socioeconomic and macroeconomic and regulatory aspects of resource planning
- Global power system economics, principles of market organization and cost structure

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