

# Special Issue

## Modeling and Simulation for the Electrical Power System

### Message from the Guest Editors

The modern electrical power system is one of the wonders of this fast-growing world and one of the most complex and sophisticated network systems. This Special Issue aims to publish the innovative research in the field of modeling and simulation for electrical power systems. Topics for this special issue include, but are not limited to:

- Modeling and simulation for modern power systems with highly penetrated power converters;
- Modeling for power converters interfaced with renewable energy generation;
- Algorithms for improving modeling and simulation;
- Machine learning techniques used in electrical power systems;
- Numerical and physical arc modeling in electrical power systems;
- Simulation for high-frequency power converters;
- Simulation-based design of energy storage systems and EV chargers;
- Fault detection and diagnosis for electrical power systems;
- Nonlinear behaviors in electrical power systems;
- Stability control for electrical power systems;
- Simulation solutions for motor design and control;
- Modeling and simulation for distributed generation and microgrids;
- Dynamics modeling, estimation, and control.

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### Guest Editors

Prof. Dr. Dongsheng Yu

Dr. Muhammad Junaid

Dr. Samson Yu

Prof. Dr. Yihua Hu

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### Deadline for manuscript submissions

closed (30 November 2023)



## Mathematics

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## About the Journal

### Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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### Editor-in-Chief

Prof. Dr. Francisco Chiclana  
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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).