



an Open Access Journal by MDPI

# Modeling and Simulation for the Electrical Power System

Guest Editors:	Message from the Guest Editors
Prof. Dr. Dongsheng Yu	Dear Colleagues,
Dr. Muhammad Junaid Dr. Samson Yu	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.
Prof. Dr. Yihua Hu	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
Deadline for manuscript	limited to:
closed (30 November 2023)	<ul> <li>Modeling and simulation for modern power systems with highly penetrated power converters;</li> <li>Modeling for power converters interfaced with renewable energy generation;</li> <li>Algorithms for improving modeling and simulation;</li> <li>Machine learning techniques used in electrical power systems;</li> <li>Numerical and physical arc modeling in electrical power systems;</li> <li>Simulation for high-frequency power converters;</li> <li>Simulation-based design of energy storage systems and EV chargers;</li> <li>Fault detection and diagnosis for electrical power systems;</li> <li>Nonlinear behaviors in electrical power systems;</li> <li>Stability control for electrical power systems;</li> <li>Simulation solutions for motor design and control;</li> </ul>
	<ul> <li>Modeling and simulation for distributed generation and microgrids;</li> </ul>

 Dynamics more ng estimation and contro Special successive







an Open Access Journal by MDPI

# **Editor-in-Chief**

#### Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

### Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The iournal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering sociology. particularly those that and 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.

# **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions. **High Visibility:** indexed within Scopus, SCIE (Web of Science), RePEc, and other databases. **Journal Rank:** JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

# **Contact Us**

*Mathematics* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/mathematics mathematics@mdpi.com X@MathematicsMDPI