

Special Issue

Modeling, Simulation, and Analysis of Electrical Power Systems

Message from the Guest Editors

We invite submissions to the Special Issue of Mathematics on Modeling, Simulation, and Analysis of Electrical Power Systems.

An electric power system is a network of interconnected electrical devices, components, and electrical systems used to generate, transmit, and distribute electric power. Power system analysis is needed to ensure the reliable, safe, and successful operation and planning of electrical power systems design. These require mathematical calculations, modeling, and simulations which are carried out to verify that the electrical system can work as intended and withstand the expected stresses so that it is protected from failure.

This Special Issue invites contributions to developing novel system modeling, simulation, and analysis related to electrical power systems. Topics of interest include but are not limited to, optimal power flow, energy management, energy forecasting, load forecasting, optimization under uncertainty for power systems fault analysis, machine learning/deep learning for power system planning, novel metaheuristic optimization methods for optimization, harmonic analysis, dynamic and transient analysis.

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Deadline for manuscript submissions

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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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