

Special Issue

Mathematical Analysis on Automated Electric Systems

Message from the Guest Editors

This Special Issue is devoted to the consideration and discussion of problems in the field of mathematical tools development and implementation to suit the needs of electrical grid monitoring and control system automation. Such systems are developed for the purpose of optimizing the mode and improving the efficiency of electrical grids' operations. The design of a new generation of grids requires the improvement of control and monitoring systems and the automation of power production, transmission and distribution; in other words, the complete digitalization of power grids is required. The purpose of this Special Issue is a scientific and technical exchange in the field of mini and micro grid control and monitoring; in particular, PMU-based control, power consumption control, power equipment asset management, PMU-based power equipment monitoring and diagnostics, adaptive relay protection, and automation system design and implementation.

Guest Editors

Dr. Stepan Dmitriev

Prof. Dr. Alexander S. Tavlintsev

Prof. Dr. Sergey I. Semenenko

Deadline for manuscript submissions

closed (15 July 2023)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/79451

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)



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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).