Special Issue

Mathematical and Computational Methods for Electrical Engineering

Message from the Guest Editors

The rapid advancement of electrical engineering is increasingly driven by the synergy between mathematics, computational science, and artificial intelligence (AI). Mathematical methods provide the theoretical framework necessary to describe and analyze electrical phenomena, while computational techniques enable the implementation and exploration of these models at scale. The emergence of AI and machine learning further expands this toolkit, allowing engineers to extract insights from large datasets, develop adaptive systems, and optimize performance in dynamic environments. This convergence of disciplines not only enhances the precision and efficiency of engineering solutions but also paves the way for innovations in real-time monitoring, automation, and predictive analytics. This Special Issue aims to highlight recent advances in mathematical modeling, analytical techniques, artificial intelligence (AI), and computational methods that underpin innovations in electrical engineering. By fostering interdisciplinary approaches, this publication will encourage the integration of theoretical foundations with intelligent computational tools to address complex engineering challenges.

Guest Editors

Dr. Nattha Jindapetch

Department of Electrical and Biomedical Engineering, Faculty of Engineering, Prince of Songkla University, Songkhla 90110, Thailand

Prof. Dr. Hiroshi Saito

Department of Computer Science and Engineering, The University of Aizu, Aizuwakamatsu, Japan

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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

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