

Special Issue

Mathematical Innovations in Electrical Engineering: Theory, Methods and Applications

Message from the Guest Editors

Advanced mathematical methods are foundational to contemporary electrical engineering, leading to significant breakthroughs in both theoretical understanding and practical applications. This Special Issue aims to highlight the critical role of mathematical methods in advancing the theory and practice of electrical engineering. It seeks to bring together original research that demonstrates how mathematical modeling, analysis, and computational techniques contribute to solving complex problems in areas such as electrical circuit analysis, power system analysis, electrical machines and drives, electromagnetics, control systems, power electronics, and signal processing. We welcome contributions that explore both theoretical developments and practical implementations, including but not limited to optimization techniques, differential equations, numerical methods, stochastic processes, and machine learning models applied to electrical engineering challenges. Interdisciplinary works that bridge mathematics with emerging technologies such as smart grids, electrical machine design, microgrids, and renewable energy systems are especially encouraged.

Guest Editors

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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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