

Special Issue

Mathematical Methods for Control Systems and Signal Processing with Applications

Message from the Guest Editors

Mathematical methods are crucial in analyzing and managing complex systems, driving advancements in control systems, and signal processing. The application of these methods spans critical areas such as control systems, the modeling of physical systems, failure detection, pattern recognition, and smart infrastructure. With the rise of artificial intelligence (AI), the Internet of Things (IoT), and autonomous systems, the demand for innovative and efficient algorithms continues to grow, making this an exciting and rapidly evolving area of research. Sensorless failure detection in electric motors, ball bearings, gearboxes, power transformers, and electrical grids are some of the applications in which mathematical methods play an essential role. This Special Issue welcomes contributions that advance the application of mathematical methods in system formulation, analysis, and implementation across diverse scientific and engineering fields.

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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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