

Special Issue

Industrial IoT and Computing Based on Mathematical Methods

Message from the Guest Editors

The rapid proliferation of Industrial Internet of Things (IIoT) technologies is revolutionizing manufacturing, supply chain management, and industrial automation. This transformation generates unprecedented volumes of heterogeneous data that require sophisticated mathematical frameworks for effective analysis, optimization, and decision-making.

We welcome contributions addressing mathematical foundations for IoT data analytics, including but not limited to machine learning algorithms for sensor networks, optimization methods for resource allocation, graph theory applications in network topology, statistical models for predictive maintenance, signal processing techniques for real-time monitoring, and mathematical frameworks for edge computing architectures.

We particularly encourage submissions that demonstrate practical implementations, provide theoretical insights into computational complexity, or propose novel mathematical approaches to address challenges in industrial IoT environments. This Special Issue aims to bridge the gap between theoretical mathematics and practical industrial computing solutions, fostering innovation in the era of Industry 4.0.

Guest Editors

Dr. Paskorn Champrasert

Department of Computer Engineering, Faculty of Engineering, Chiang Mai University, Chiang Mai 50200, Thailand

Prof. Dr. Chonho Lee

Department of Information Science and Engineering, Okayama University of Science, Okayama 700-8530, Japan

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

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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.

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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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).