

Special Issue

Machine-Learning-Based Process and Analysis of Medical Images

Message from the Guest Editor

The current deep learning models are not robust, and their performance can drop when there is a change in conditions (such as testing with different cohort populations, and scanners), which leads to challenges in deploying deep learning models into real-world clinical applications. The trustworthiness and societal impact of such models have not been explored much. Despite the minimal amount of research carried out to address the limitations of the availability of limited datasets, label efficiency, and lightweight algorithms, these fields have not been fully explored. Therefore, in this Special Issue, we encourage submissions on potential research problems raised by limited datasets, label efficiency, hardware efficiency, and trustworthy and reproducible (training time and testing) deep learning that can prepare for more biomedical applications in future. This Special Issue will be devoted to unveiling the most recent progress in obtaining analytical and numerical solutions to nonlinear differential equations through various methods and to stimulating collaborative research activities.

Guest Editor

Dr. Debesh Jha

Department of Radiology, Northwestern University, Chicago, IL, USA

Deadline for manuscript submissions

closed (31 August 2024)



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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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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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