Special Issue

Recent Advances in Neural Networks and Applications

Message from the Guest Editors

Topics of interest include but are not limited to the following:

- Processing of signals from sources of various types, including the use in machine-learning-based applications.
- Processing of noisy signals (including the creation of systems for processing heavily noise signals).
- Recognition of sounds and speech in difficult conditions (noise, long distance, and so on), including conversation analysis.
- Collection of datasets and training of neural network models.
- Data markup using artificial intelligence, including for automating data preparation for applied tasks.
- A combination of different types of algorithms within computer vision and machine learning systems.
- Detection and identification of objects in a complex environment.
- Autonomous semantic segmentation, classification and identification of objects, and division into sub-objects, including in real time.
- Event analysis using video analytics systems.
- Evaluation of the quality of neural network models of machine learning without testing in a real environment, including systems tested without user participation.
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Guest Editors

Dr. Ryumin Dmitry

St. Petersburg Federal Research Center of the Russian Academy of Sciences (SPC RAS), 199178 St. Petersburg, Russia

Dr. Ivanko Denis

St. Petersburg Federal Research Center of the Russian Academy of Sciences (SPC RAS), 199178 St. Petersburg, Russia

Deadline for manuscript submissions

closed (31 October 2023)

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).

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