Special Issue

Mathematical Methods and Applications for Artificial Intelligence and Computer Vision

Message from the Guest Editors

Recent advances in machine learning and pattern recognition have sparked a revolution in many fields of artificial intelligence. Automated extraction of knowledge from Big Data has led to myriad accomplishments in science and technology. In particular, computer vision has dramatically benefited from deep learning and other advanced methods. Mathematical models are a key factor to the success of these strategies since they enable a quantitative understanding of the underlying learning processes, as well as provide a principled, solid foundation for the evaluation of such approaches. This Special Issue will focus on recent theoretical and applied studies of computational intelligence and related fields, emphasizing computer vision. Topics include but are not limited to:

- Supervised learning;
- Unsupervised learning;
- Reinforcement learning;
- Deep learning;
- Pattern recognition;
- Image analysis and enhancement;
- Computer vision;
- Natural language processing;
- Time-series analysis;
- Data mining.

Guest Editors

Prof. Dr. Ezequiel López-Rubio

Dr. Esteban J. Palomo

Prof. Dr. Enrique Domínguez

Deadline for manuscript submissions

closed (15 February 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.

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