Special Issue

Computational Intelligence in Image Processing and Pattern Recognition

Message from the Guest Editors

The past decades have witnessed the great success of image processing and pattern recognition in many fields such as image denoising, image synthetization and translation, biometric recognition, etc. Automated image analysis and information extraction from mass real-world data have significantly increased productivity in practical engineering applications. Especially, deep learning and other advanced methods are accelerating the revolution. Computational intelligence will play a key role in the revolution due to its potential power in information processing, decision making and knowledge management. This Special Issue will gather recent advances in both theoretical and practical studies of computational intelligence, emphasizing image processing and pattern recognition. Potential topics include, but are not limited to:

- Image processing, including morphology, filtering and enhancement, etc.;
- Supervised/semi-supervised/unsupervised learning;
- Reinforcement learning;
- Deep learning theory and applications;
- Pattern recognition;
- Computer vision;
- Natural language processing;
- Time-series analysis;
- Data mining.

Guest Editors

Prof. Dr. Xianye Ben

Dr. Peng Zhang

Prof. Dr. Tao Lei

Dr. Lei Chen

Deadline for manuscript submissions

closed (31 March 2024)

MDPI

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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