Computational Intelligence in Image Processing and Pattern Recognition

Guest Editors:

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Deadline for manuscript submissions:
closed (31 March 2024)

Message from the Guest Editors

Dear Colleagues,

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.

Special Issue

Editor-in-Chief

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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.

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