Special Issue

Advances in Pattern Recognition and Image Analysis

Message from the Guest Editors

We live in a society where digital technology is everywhere and in every aspect of our lives, with new and advanced usages being constantly proposed. This has set off a growing need to develop novel algorithms and integrated approaches to not only efficiently, but also accurately retrieve information from the quickly accumulated data. Pattern recognition has generated research interests since the early years of computer science and plays an important role in understanding the patterns and regularities in data. Image analysis is an exciting research area with roots in machine learning and artificial intelligence. Recent developments in neural networks show that some models can perform well in image classification and recognition. To address the challenges brought up by digital data, more research needs to be conducted in pattern recognition and image analysis. Therefore, in this Special Issue, we aim to include original and recent work or reviews in methodologies, technologies or applications.

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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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