Special Issue

Mathematical Methods for Image Processing and Computer Vision

Message from the Guest Editors

Advances in the field of digital Image Processing and Computer Vision (IPCV) have contributed to the development of virtually every branch of science for which imaging technologies are applicable. This collaboration has led to the realization of unimaginable problem-solving capabilities that closely resemble (up to a certain level) common human vision tasks and behaviors. Typical applications include object recognition and tracking, autonomous navigation, accident prevention, face detection and recognition, security and surveillance, medical diagnoses, the remote sensing of the environment, and many more. IPVC has empowered digital machines to manipulate, transform, enhance, extract, and analyze image semantics by using both classical mathematical models and artificial intelligence schemes, such as Deep Neural Networks. These IPVC systems represent a valuable asset for the automation of image and vision-related tasks in various domains, enhancing their accuracy, efficiency, and decision-making capabilities in real-time.

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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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