

Special Issue

Applications of Partial Differential Equations in Image Analysis

Message from the Guest Editors

During the last number of years, there has been a significant increase in the level of interest in image morphology, full-color image processing, image data compression, image recognition, and knowledge-based image analysis systems. Image analysis is the extraction of meaningful information from images; mainly from digital images by means of digital image processing techniques. Some techniques which are used in digital image processing include: partial differential equations (anisotropic diffusion), image restoration (denoising-deblurring), image filtering, image reconstruction, image segmentation, neural networks, etc. The present Special Issue "Applications of Partial Differential Equations in Image Analysis" is dedicated to researchers working in the fields of qualitative and quantitative analysis of nonlinear evolution equations and their applications in image analysis. Both analytical studies as well as simulation-based studies will be considered. Moreover, this Special Issue gives an opportunity for researchers and practitioners to communicate their ideas.

Guest Editors

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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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