

Special Issue

Mathematical Approaches to Image Processing with Applications

Message from the Guest Editor

Image processing is a set of techniques that have been developed over the last 30 years in such a way that they are increasingly more complex and their applications more diverse. Several authors include the acquisition of the image within image processing as an important phase with an important mathematical load due to the models of calibration that intervene, which needs to be more effective and efficient every time. Thus, the mathematical modeling of each application and the algorithms designed ad-hoc for the extraction of characteristics or simply for the measurement of some parameters of the image are of special interest to the scientific community. In addition, it is not only important to extract characteristics, but all possible classification or regression models, once the characteristics have been extracted, which can establish decision patterns. This is where machine learning and/or deep learning models come in. For all these reasons, this Special Issue will collect works of special relevance in the different phases of image processing, with special emphasis on the different mathematical approaches addressed.

Guest Editor

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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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