Special Issue

Advances in Image Analysis: Shapes, Textures and Multifractals

Message from the Guest Editor

Multifractal descriptors are increasingly being used as texture features in various imaging and machine learning applications. The singularity spectrum of intensity variations in an image has been shown to contain highly useful information on subtle texture characteristics needed for effective identification and classification of regions of interest. Several new texture feature extraction methods based on multifractal analysis have been recently reported in the field of medical image processing. These include algorithms for microcalcification detection in mammograms, analysis of tissue structures in histopathological images, emphysema classification in CT images, feature enhancement in ultrasound videos, and mammographic breast density estimation. This Special Issue aims to promote further research into the field of texture analysis and classification using multifractal measures and descriptors, and provides a forum for publishing original research papers on their applications in image analysis.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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