Spatio-Temporal Biomedical Image Analysis

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

The application of biomedical imaging continues to grow, e.g., in relation to diagnostics, understanding of disease progression, molecular subtyping, to treatment planning, therapy response prediction, treatment prognosis assessment, as well as phenotypic assays of gene expression through imaging genetics. Advanced imaging modalities typically result in a series of multidimensional imaging volumes capturing structural/anatomical and functional aspects, both at the spatial and the temporal level. These modalities include the traditional imaging, such as CT, PET, MRI (i.e., perfusion MRI, dynamic susceptibility contrast (DSC) MRI, dynamic contrast enhanced (DCE) MRI), diffusion weighted imaging (DWI), and diffusion tensor imaging (DTI). This Special Issue of *Journal of Imaging* invites reports on recent advances in algorithms for analyzing multidimensional spatiotemporal imaging volumes, including both deep-learning-based data-driven methods and medical physics-based methods.

Special Issue

Editor-in-Chief

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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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