Special Issue

Algorithms for Biomedical Image Analysis and Processing

Message from the Guest Editors

The large number of applications that rely on biomedical images increases the demand for efficient, accurate, and reliable algorithms for biomedical image processing and analysis, especially with the rising complexity of imaging technologies and the huge number of images to be processed. This Special Issue aims to bring together both original research articles and topical reviews on algorithms for biomedical image processing and analysis techniques. Some basic techniques include deblurring, noise cleaning, filtering, 3D reconstruction from projection, segmentation, etc. Submissions are welcome for algorithms based both on traditional approaches and on new machine learning techniques. Potential topics include but are not limited to:

- Medical image analysis and processing;
- Microscopy and histology image analysis and processing;
- Computer-aided detection;
- Computer-aided diagnosis;
- Imaging biomarkers;
- Reconstruction in emission tomography;
- Computerized cell tracking;
- Machine and deep learning for biomedical imaging;
- Methods for combined imaging technologies.

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About the Journal

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

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