



Statistical Biomedical Signal and Image Processing and Understanding: 2nd Edition

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Message from the Guest Editor

Dear Colleagues,

Statistical methods, applied to image analysis, are an important research topic in the field of image processing. Medical and biological images are natural images where statistical processing approaches could help doctors and biologists to better understand, detect and diagnose using computer-based methods. Recently, deep learning techniques have given an impressive performance in recognition and classification tasks. Therefore, a great number of research studies turned to use neural networks to address the recent trend of machine learning. This Special Issue focuses on new statistical methods applied to signal and images in the biomedical field, including all biomedical modalities, and it welcomes submissions of theoretical or application-based approaches related, but not limited, to:

- Multi-dimensional imaging;
- Medical images filtering;
- Restoration;
- Segmentation and registration;
- Feature extraction and image description;
- Classification tools for image-based diagnosis;
- Methods in diagnosis optimization;
- Computer-aided diagnosis systems and methods;
- Deep learning





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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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