

CALL FOR PAPERS

Biomedical Signal Processing and Control

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Editor-in-Chief: Prof. Robert Allen

Special issue title:

Biomedical Image Restoration and Enhancement

Guest Editors:

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Prof. Li Chen (Wuhan University of Science and Technology, Wuhan, China)

Aim and Scope

Biomedical imaging is critically important for diagnosis, therapy and discovery in both clinical and pre-clinical scenarios. There are a number of critical issues regarding the restoration and enhancement of images captured by biomedical imaging systems, such as Poisson noise and space variant point spread functions. Such effects are often neglected in conventional image restoration algorithms. The special issue is therefore dedicated to the subject of biomedical image restoration and enhancement techniques, mainly in suppression of highly structured or correlated noise and artifacts for biomedical imaging systems.

This special issue aims to look back at the classical topic of biomedical image restoration and enhancement from a new perspective, by inspiring more research endeavor in the area of image processing, and emphasizing the challenges for implementing image processing algorithms in biomedical imaging scenarios.

Topics of interest (but are not limited to)

- Image degradation modeling and image quality evaluation
- Deblurring and denoising
- Interpolation, super-resolution, and mosaicing
- Registration, multi-frame image restoration
- Inpainting and image synthesis
- Applications in MRI, PET, SPECT, microscopy imaging, etc

Important dates

Submission of manuscripts: January 1, 2012
First decision notification: April 1, 2012
Submission of revised papers: May 15, 2012
Final Acceptance/Rejection notice: July 1, 2012

Submission guidelines

Papers will be evaluated based on their suitability for the special issue, originality, novelty and overall quality. The submitted papers must be written in English of good quality and describe original research which has not been published nor currently under review by other journals or conferences. Previously published conference papers should be clearly identified by the authors (at the submission stage) and an explanation should be provided of how such papers have been extended for this special issue. All submitted papers will be peer-reviewed by at least two independent reviewers. All manuscripts and any supplementary material (e.g. animations) should be submitted through the Elsevier Editorial System (EES). The EES website is located at: www.elsevier.com/locate/bspc/.

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