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Sensors, Image, and Signal Processing for Biomedical Applications

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Message from the Collection Editor

Recording information from the human body by measuring signals and taking images is important throughout the entire clinical process covering anamnesis, diagnosis, therapy, and treatment. In addition to proper recording, preprocessing and pre-analyzing signals and information from the patient fusion of quantitative data and qualitative information also play an important role. The field of biomedical imaging and signal processing has been and still is open to new developments in other disciplines and fields such as physics and chemistry, independent of how remote these may first appear—this is highlighted in the example of Kinect and another kind of devices originally developed for gaming rather than imaging.

This issue puts the focus on recent developments in the fields of biomedical, medical, and clinical image and signal processing. These include new sensing methods, approaches to analyzing the recorded images and signals, data fusion methods, and algorithms to obtain new and additional insights.



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Topical Collection



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Message from the Editor-in-Chief

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