

Special Issue

Trends and Prospects in Medical Hyperspectral Imagery

Message from the Guest Editors

Hyperspectral Imaging (HSI) is a technology to identify and estimate the distribution of materials within a captured scene based on the measured surface reflectance at each spectral band. Although initially aimed at remote sensing applications, there is a growing research interest to perform in vivo HSI processing during surgeries to help in discerning between cancerous and healthy tissues and locating tumor margins. The aim of this Special Issue is to introduce to the remote sensing community results and applications of the Hyperspectral Imaging field into medical research. The goal is to provide beyond-state-of-the-art solutions to the challenge of building decision support tools for personalized medicine. Therefore, contributions such as integration of HSI with MRI or IOUS, real-time mapping of brain tumors, intraoperative immersive classification, bio-inspired classification algorithms, in vitro and ex vivo HSI analysis from resected samples or high-performance real-time HSI processing platform implementations, among others, are expected.

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