

Special Issue

Multispectral and Hyperspectral Imaging: Progress and Challenges

Message from the Guest Editors

Hyperspectral imaging opens the door to promising new fields. Today, applications can be found in: **Precision agriculture** (early detection of diseases and pests, optimized management of inputs, yield estimation, etc.); **Ecosystem management** (species mapping for sustainable management, disease detection, biomass mapping, environmental changes, etc.); **Environmental monitoring** (ocean analysis, coastal zone monitoring, pollutant detection, etc.); **Agri-food industry** (quality control, automated sorting, etc.); **Cultural heritage preservation** (artwork analysis, detection of hidden structures, material characterization, etc.); **Healthcare** (non-invasive diagnosis, surgical monitoring, tissue analysis, etc.); **Defense and security** (detection of stealth coatings and camouflage, monitoring of industrial activities, mine detection, etc.). All these applications rely on the synergy between imaging systems (optical assemblies, sensors, acquisition electronics, and preprocessing) and advanced data processing techniques. This special issue provides a snapshot of the latest advances in hyperspectral technologies and their applications, and thus covers all aspects of the field.

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About the Journal

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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