Special Issue

Sensors for Hyperspectral Imaging: Technologies, Methods and Data Processing

Message from the Guest Editor

Hyperspectral imaging is a key image modality with significant application potential in diverse domains, including solving image application issues beyond visual, thermal, and multispectral images. In this Special Issue, we aim to bring together novel tools and technologies for acquisition, processing, and analysing hyperspectral images. We also aim to compile applications of hyperspectral imaging in different domains. This Special Issue has a two-fold focus: 1. New tools and techniques for image acquisition and processing, including (but not limited to):

- Band selection, data compression, information fusion, and data visualization;
- Model/algorithm development using machine learning/deep learning;
- New sensor technology and hardware.

2. Applications of hyperspectral imaging in different domains, including (but not limited to):

- Agriculture: disease, pests, food quality, land condition assessment, etc.;
- Environment: forests, lakes, and damage assessment;
- Defence: survellience, search and rescue, and targeting;
- Medical: lesion and tissue condition analysis;
- Other: mining, archeology, and geology surveys.

Guest Editor

Dr. Subrata Chakraborty

1. School of Science and Technology, Faculty of SABL, University of New England, Armidale, NSW 2351, Australia
2. Centre for Advanced Modelling and Geospatial Information Systems (CAMGIS), University of Technology Sydney, Ultimo, NSW 2007, Australia
3. Griffith Business School, Griffith University, Brisbane, QLD 4111, Australia

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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