Special Issue

Hyperspectral Sensors, Algorithms and Task Performance

Message from the Guest Editors

This Special Issue examines the interaction between hyperspectral sensor hardware and algorithmic and processing advances. Specifically, it aims to answer the following questions: What currently limits the state of the art in spectral sensor hardware and processing? What is the minimum quality that spectral sensors must meet? Can any manner of sensor artifact be overcome with a sufficiently good algorithm and processor? Does hyperspectral sensor design drive algorithm development or vice versa? What is the impact of hyperspectral processing acquisition mode and calibration scheme on algorithm development?
keywords

- hyperspectral sensor
- imaging spectroscopy
- neural network
- sensor calibration
- sensor artifacts
- spectrometer
- machine learning
- target detection and identification

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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.

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