Hyperspectral Sensors, Algorithms and Task Performance

Guest Editors:

Dr. Jason G Zeibel
US Army C5ISR Center, 10221 Burbeck Road, Fort Belvoir, VA 22060, USA

Dr. Michal Shimoni
Kuva Space, Otakaari 5, 02150 Espoo, Finland

Deadline for manuscript submissions:
31 August 2024

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

Special Issue

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

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.

Author Benefits

Open Access : free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us