# **Special Issue**

## Hyperspectral Imaging for Environmental Monitoring

### Message from the Guest Editors

Hyperspectral imaging (HSI) has emerged as a powerful tool for optical data collection, enabling high-resolution spectral analysis across a range of diverse applications. This Special Issue will explore recent advancements in HSI technology, data processing techniques, and deployment within real-world applications. Whilst HSI can be used within a plethora of applications for highresolution optical data collection, this Special Issue will focus upon its use within environmental monitoring applications. Example applications may include air pollutants, soil and agriculture, biodiversity and ecosystem health, climate change research, and glacial and cryosphere studies. However, this list of applications is open-ended, as long as submissions fall within the theme of environmental monitoring. We welcome contributions on novel HSI designs. improvements in spatial and spectral resolution, and deployment within environmental monitoring applications. Research on the integration of HSI with machine learning and AI for hyperspectral data analysis, as well as fundamental laboratory-based measurements, is also encouraged.

### **Guest Editors**

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#### Deadline for manuscript submissions

20 November 2025



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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

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