Recent Applications and Techniques of Hyperspectral Imaging in Remote Sensing

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Message from the Guest Editor

Hyperspectral imaging (HSI) has been regarded as an emerging and rapidly developing advanced technology, and its related research and development has also been widely used in various fields, such as agricultural food safety and inspection, land use, land cover classification, ecological/environmental monitoring, and military defense. It is a pity that HSI in some areas is still in the early stages of development in this field, as people have not yet understood its applications.

The aim of this Special Issue is to focus on:

(1) Recent applications of HSI: smart agriculture including detection of diseases, crop growth monitoring, pest and disease identification, farming management, quality evaluation, smart manufacturing including defect detection and product grading, environmental monitoring including toxic wastes and water pollution, food safety including grading and inspection, forest and plantation including species classification etc.

(2) Techniques of HSI including algorithm design, architecture, and implementation: anomaly detection, target detection, band selection, dimensionality reduction, sparse representation, deep learning, image classification, hyperspectral unmixing etc.

Special Issue

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Message from the Editor-in-Chief

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