Hyperspectral Remote Sensing from Spaceborne and Low Altitude Aerial/Drone-Based Platforms — Differences in Approaches, Data Processing Methods, and Applications

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Message from the Guest Editors

Dear Colleagues,

In the last two decades, several important space-borne hyperspectral and multispectral sensors have been launched by different space agencies. Due to the lack of global coverage of space-borne hyperspectral sensors; routine aircraft-based and drone-based hyperspectral surveys are carried out in different countries using different advanced hyperspectral either multispectral sensors. Capability of collecting high spatial and spectral resolution data with optimum spectral fidelity, have led to new applications especially in geology, geomorphology, hydrology and environments. Machine or artificial intelligence processing can be used to understand and utilize the higher-order variation of field grade spectral data collected using these low-altitude airborne sensors to automate spectral feature-based target detection. It is now important to capitalize on the comparative the potential of space-borne and airborne hyperspectral and multispectral remote sensing datasets based on analyzing different applications that have been addressed by hyperspectral/multispectral data from different platforms to identify the specificity of each of these two platforms.

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Special Issue

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Message from the Editor-in-Chief

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