Unmanned Aerial Vehicle Based Hyperspectral Imaging for Earth Observation

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Message from the Guest Editors

Small form factor hyperspectral sensors (< 10 kg) (HSI) mounted on unmanned aerial vehicles have rapidly evolved over the last decade and now they have shown potential for next-phase Earth Observation applications—satellite products calibration/validation, forestry, agriculture, biodiversity, geology, inland and costal ecosystems, etc. Currently, UAV-HSI provides up to ~550 contiguous spectral bands, usually encompassing the visible and near infrared (400nm–900 nm) and short-wave-infrared (900nm–2500nm) regions, capturing hyperspectral imagery at ultra-high spatial resolution, e.g., 1cm–10cm. The goal of this Special Issue is to publish papers (original research articles and reviews) focused on the use of UAV-HSI for Earth Observation applications, following best practices and protocols to generate reliable hyperspectral imagery, i.e., geometrically and radiometrically corrected imagery.

Special Issue

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Message from the Editor-in-Chief

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