Due to efficient and flexible acquisition, Unmanned Aerial Vehicles (UAVs) have been involved in an increasing number of remote sensing applications for Earth observation (e.g., precision agriculture, disaster management, etc.). On the one hand, UAVs can be equipped with several onboard sensors, including optical, thermal, multispectral, hyperspectral, Laser, SAR, etc., providing timely and wealth data. These data sources, on the other hand, can complement satellite or airborne data, especially for small observed areas with much higher spatial resolution. However, all these advantages generate a number of challenges for the analysis and interpretation of UAV data. In this Special Issue, we welcome methodological contributions in terms of novel UAV data processing/interpretation algorithms as well as their recent applications to relevant scenarios from UAV.

We invite you to submit the most recent advancements in (but not limited to) the following topics:
- UAV-based imaging, e.g., laser scanning, hyperspectral imaging, and thermal imaging
- Methods for UAV-based data processing, e.g., noise reduction, calibration, sharpening, data compression, feature extraction, dimension reduction, etc.
- UAV-based image classification, change detection and target detection
- Fusion of UAV data with other data sources
- Real time processing on UAV-based platform
- UAV-based applications, e.g., agriculture, forestry, surveillance, etc.
- Technique reviews on the related topics

Schedule

January 1, 2020	Submission system opening
June 30, 2020	Submission system closing
2020	Publication date

Format
All submissions will be peer reviewed according to the IEEE Geoscience and Remote Sensing Society guidelines. Submitted articles should not have been published or be under review elsewhere. Submit your manuscript on http://mc.manuscriptcentral.com/jstars, using the Manuscript Central interface and select the "UAV-Based Remote Sensing Data Processing and Applications" special issue manuscript type. Prospective authors should consult the site http://www.grss-ieee.org/publication-category/jstars/ for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format. For a template in this format please consult the site http://www.ieee.org/publications_standards/publications/authors/author_templates.html. Please note that as of January 1, 2020, J-STARS will become a fully open-access journal, charging a flat rate of $1250 for each paper.

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