



Advanced Signal Processing Methods in Spectral Imaging

Multi-spectral imaging is known an important increase of interest, from both the research community and the industry. Multi-spectral images are divided into different categories, including InfraRed (IR), TeraHertz (THz), Millimeter Wave (MMW), Ultra-violet (UV) and Visible light (UV-VIS). Images from each one of these sub-categories have their own characteristics that make them attractive to specific applications. It should be noticed that these characteristics are, not only used to develop new applications, but are also used to improve the appearance of the corresponding image in case it is available; for instance, image filtering, dehazing, image classification, object detection, object recognition and tracking, and spectral information processing to mention a few applications of multi-spectral on visible spectrum images.

This is a satellite special session of the 10th International Conference on Image and Graphics (ICIG) (<http://icig2019.csig.org.cn/>), which will be carried out in Beijing, China, on August 23-25, 2019.

Please submit your paper via the submission site http://icig2019.csig.org.cn/?page_id=93 and select the special session of “Advanced Signal Processing Methods in Spectral Imaging” marked with “ICIGASPMISI”.

This special issue aims to present recent advances in signal and image processing algorithms and their application to different areas using spectral imaging. The following spectral imaging information processing and application topics will be covered, but this Special Issue is not limited to only these topics:

- Infrared imaging
- Terahertz imaging
- Millimeter Wave imaging
- Ultra-violet imaging
- Hyperspectral image processing
- Spectral information processing
- Image filtering
- Image dehazing
- Image classification
- Object detection
- Object recognition and tracking

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