

## Special Issue on Trends in Remote Sensing of Earth from Space

# CALL FOR PAPERS

Over the past few decades, thousands of satellites have been sent into space on missions to collect data about the earth. Satellites offer a unique opportunity to monitor earth for preparation of weather analyses, forecasts, climate monitoring, and environmental applications. Remote sensing of earth from space permits detailed, descriptive, quantitative, holistic, standardized, global evaluation of the state of the earth in a manner that our actual earthen civilization has never been able to do before. In particular, the ability to gather satellite images continuously to create “movies” of the changing planet is improving the understanding of earth’s dynamic processes and helping society to manage limited resources and environmental challenges. Modern optical sensors have been devised to capture both qualitative imagery and quantitative information, by using a range of different wavebands of light. That means the imagery is often in a familiar “photographic” form, showing the earth from the unique and powerful perspective of space. But it can also contain additional information which helps scientists, researchers, and decision-makers to understand more about the natural and man-made processes occurring on earth. As the resolution of new satellite sensors increases, we can also use this technology for monitoring our own impact on the earth and the movements of people around the planet. Advanced sensors and techniques have been developed to monitor earth from space. Remote sensing techniques to monitor earth have been revolutionized with the launch of ICESat-2, Sentinel-2B, OCO-2, FORMOSAT-2, IKONOS, INSAT-3D, and INSAT-3DR. With the launch of these satellites there have been advances in techniques to monitor earth. In this context, this special issue has been proposed.

Potential topics include but are not limited to the following:

- ▶ Recent satellite missions and advances in sensors
- ▶ Multispectral observations to monitor earth
- ▶ Hyperspectral observations of earth
- ▶ Synergistic use of multisatellite sensors to monitor earth
- ▶ Advanced statistical tools to analyze satellite data
- ▶ Earth observations using combined space and ground input

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Papers are published upon acceptance, regardless of the Special Issue publication date.

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### Submission Deadline

Friday, 9 March 2018

### Publication Date

July 2018