

Introduction to the Special Issue on “Oceanic and Coastal Remote Sensing” of *Journal of Marine Science and Technology*

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The ocean covers three quarters of the surface of the Earth and is a major factor affecting the climate. Coastal areas that join land and sea are shaped by many processes: uplift and subsidence, the wearing down of land by erosion, and the redistribution of material by sediment transport and deposition. To measure or detect the ocean is greatly challenging because it changes all the time. As the result of rapid data acquisition and uniform quality of global data set, remote sensing plays an important role in all aspects of coastal and oceanic science. Important sensors include optical imagers, multi- and hyper-spectrometers, thermal and microwave radiometers, LIDAR and radar. Inferred quantities include coastal changes, ocean color, sea surface temperature and salinity, sea surface height, ocean surface winds, bathymetry, and so on. This special issue will consolidate a wide variety of papers on the sensor technology and applications of coastal and oceanic remote sensing.

This JMST special issue is associated with the 22nd International Symposium on Remote Sensing (ISRS 2015), which was held from April 22-24, 2015 in Tainan, Taiwan. Since 2012, the ISRS symposium series have officially been co-organized yearly by the following three societies: the Korean Society of Remote Sensing (KSRS), the Chinese Society of Photogrammetry and Remote Sensing (CSPRS), and the Remote Sensing Society of Japan (RSSJ). ISRS has become not only the most prominent remote sensing symposium in East Asia but also one of the most successful co-organized by academic societies of three countries. More than 330 participants from 14 countries attended ISRS2015. In total, 228 papers were presented in 36 oral and 2 poster sessions, which covered a wide range of fields within the realm of remote sensing.

This special issue has been particularly arranged to cover the innovative applications of coastal and oceanic remote sensing. As a result of a careful review process, more than ten papers have been accepted for publication. The papers presented in this special issue involve the following topics:

- Remote sensing of internal wave and current velocity;
- Intertidal sediment classification and marine debris detection;
- Ocean color and sea ice monitoring;
- Technique of underwater measurement.

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