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Remote Sensing of Coastal Aquatic Environments: Technologies, Techniques and Applications (Remote Sensing and Digital Image Processing) by Richard L. Miller (Editor), Carlos E. Del Castillo (Editor), Brent A. McKee (Editor) & 0 more.
ISBN-13: 978-9048167920. ISBN-10: 9048167922.

Remote Sensing of Coastal Aquatic Environments ...

The aquatic coastal zone is one of the most challenging targets for environmental remote sensing. Properties such as bottom reflectance, spectrally diverse suspended sediments and phytoplankton communities, diverse benthic communities, and transient events that affect surface reflectance (coastal blooms, runoff, etc.) all combine to produce an optical complexity not seen in terrestrial or open ocean systems.

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Remote sensing of coastal and marine ecosystems is particularly challenging. Up to 90% of the signal received by the sensors in orbit comes from the atmosphere. Additionally, dissolved and suspended constituents in the water column attenuate most of the light received through absorption or scattering.

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Aquatic color radiometry remote sensing of coastal and inland water bodies is of great interest to a wide variety of research, management, and commercial entities as well as the general public.

Aquatic color radiometry remote sensing of coastal and ...

In the first part several conceptual and technical issues of applying remote sensing and geospatial technologies in the coastal environment are examined. The second part showcases some of the latest developments in the use of remote sensing and geospatial technologies when characterizing coastal waters, submerged aquatic vegetation, benthic ...

Remote Sensing And Geospatial Technologies For Coastal ...

This Special Issue on “ Remote Sensing in Coastal Environments ” is specifically aimed at addressing challenges related to assessing, quantifying, and monitoring near-shore shallow marine and open ocean processes, ecosystem productivity and biodiversity, interrelationships between vegetation and water quality, and the impact of sea level rise.

Remote Sensing | Special Issue : Remote Sensing in Coastal ...

Remote sensing from quadcopters provides unprecedented ability to study small river

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plumes formed in the coastal sea. The main goal of the current work is to describe structure and temporal variability of small river plumes on small spatial and temporal scales, which are limitedly covered by previous studies.

Remote Sensing | Special Issue : Coastal Waters Monitoring ...

An important aspect of remote sensing science is the ability to monitor complex environmental media (air, land, water) and their interfaces (water surface wave, air-sea interaction, water-sediment, and internal interfaces). Understanding complex environmental system phenomena is key to scientific understanding of oceans, littoral zones, estuaries, coastal areas, large lakes, ports and waterways as well as sea ice dynamics since remote sensing data provides valuable monitoring information.

Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and ...

Duties and responsibilities High level research in applying remote sensing methods in solving different scientific problems in coastal and inland waters. Collecting and analysing remote sensing and bio-optical data. Creating and managing databases. Planning and participation in fieldwork and laboratory experiments.

Associate Professor of Remote Sensing and Aquatic Optics ...

"This remote sensing method shows great promise for identifying the relevant climatic versus other controls on tree growth and health, even within narrow bands of vegetation along rivers," said ...

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Study uses remote sensing to monitor groundwater along ...

Remote Sensing of Coastal Water-quality Parameters from Sentinel-2 Satellite Data in the Tyrrhenian and Adriatic Seas. Abstract: The Sentinel-2 mission allows the remote sensing of coastal waters environments with detailed imagery down to 10-m resolutions. In this study we explore different approaches in the retrieval of chlorophyll-a (Chl-a) and total suspended matter (TSM) concentrations along the Adriatic and Tyrrhenian coasts in Italy, using empirical and model-based data to develop ...

Remote Sensing of Coastal Water-quality Parameters from ...

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Aquatic Environments Applications

In this introductory webinar, participants will be provided with an overview of remote sensing for coastal and ocean applications. This will include a background in aquatic remote sensing, data access and tools for processing and analyzing imagery, and examples and live demonstrations of applied science tools that have been developed

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Introduction to Remote Sensing for Coastal and Ocean ...

The related water management, flood risk assessment and different aspects of coastal management rely on measurements and modelling practices that are often faced with complicated accessibility issues. There are considerable benefits to using remote sensing in hydrology and water management of inland waters.

Water and coastal management | VITO Remote Sensing

Quantifying coastal change is essential for calculating trends in erosion, evaluating processes that shape coastal landscapes, and predicting how the coast will respond to future storms and sea-level rise, all critical for U.S. coastal communities. Rapid developments have occurred in remote-sensing technologies during the 21st century.

Remote Sensing Coastal Change - USGS

Remote sensing using satellite and airborne sensors is a powerful, operational tool for monitoring coastal zones. This technology can provide accurate, large-scale, synoptic environmental information essential for understanding and managing marine ecosystems.

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