

Call for Papers

ISPRS Journal of Photogrammetry and Remote Sensing - Theme Issue “Remote Sensing and GIS for Coastal Ecosystem Assessment and Management”

Guest editor: Xiaojun Yang (Florida State University, U.S.A.)

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Coastal areas belong to the most dynamic and productive ecosystems on Earth. They are also the foci of human settlement, industry, and tourism. Large coastal population and intense development are exacerbating environmental stress and degradation of the coastal ecosystems, thus placing an elevated burden on organizations responsible for the planning and management of these highly sensitive areas.

Coastal ecosystem management involves procedures of monitoring and modeling which require reliable information base and robust analytical technologies. Remote sensing and GIS, given their cost-effectiveness and technological soundness, are increasingly being used to develop useful sources of information and to support decision making in connection with a wide array of coastal applications. Recent innovations in data, technologies, and theories in the wider arena of remote sensing and GIS have permitted scientists with invaluable opportunities to advance the study of the coastal environments. This theme issue focuses on the use and applications of remote sensing and GIS techniques to develop environmental indicators for coastal ecosystem assessment and management. Specifically, this issue addresses the following topics (but not limited to):

- Nearshore bathymetry, shoreline erosion, and coastal morphologic change
- Characterization, analysis, and modeling of changing landscape structure and patterns in coastal environments
- Coastal wetland mapping and change detection
- Watershed hydrological and nutrient modeling in coastal environments
- Remote sensing of coastal water quality (chlorophyll concentration, turbidity, TSS and others)
- Mapping seagrass, littoral aquatic vegetation, and benthic habitats
- Linking conditions in upstream watersheds to downstream estuaries for integrated assessment of the estuarine ecosystems
- Coastal ecosystem management case studies

Papers that address the development of analytical techniques and methodologies and/or the innovative use of high-resolution imagery, RADAR, LIDAR, and hyperspectral data for one or more of the above applied topics are highly encouraged.

Papers must be original contributions, not previously published or submitted to other journals. Papers published or submitted for publication in conference proceedings may be considered provided that they are considerably extended and improved. Papers must follow the instructions for authors described at <http://www.itc.nl/isprsjournal/>. Please submit the full manuscript to <http://ees.elsevier.com/photo> by **May 30, 2007**. Papers will be peer-reviewed in accordance with the established ISPRS Journal policy.

Address:

Xiaojun Yang
Department of Geography
Florida State University
Tallahassee, FL 32306, U.S.A.
Tel: +1 (850) 644 8379
Fax: +1 (850) 644 5913
xyang@fsu.edu

