# **Special Issue**

## Application of Remote Sensing and Numerical Modelling in River, Estuarine and Coastal Environments

## Message from the Guest Editors

Heavy rainfall, storm surges, and sea level rise pose significant challenges to both riverine and coastal areas, particularly in estuarine regions where their combined effects can significantly increase the risk of flooding. Indepth knowledge of the physical processes occurring in these environments is therefore crucial to understanding the behaviour of these systems, especially under extreme conditions and climate change. Improvements in remote sensing and modelling also enhance early warning, sustainable urban planning, and resilient infrastructure, minimising natural impacts. This Special Issue aims to provide a comprehensive overview of current research and to explore advanced approaches in local- and regional-scale applications of remote sensing and numerical modelling. Authors are encouraged to submit papers on, but not limited to, the following topics: River, estuarine and coastal dynamics; Innovative remote sensing applications in aquatic environments; Methodologies for flood analysis and risk assessment; Numerical modelling using remote sensing data for model forcing, calibration, or validation; Remote sensing applications for coastal erosion and protection.

## **Guest Editors**

Dr. Eleonora Perugini

- Dr. Lorenzo Melito
- Dr. Erwin Bergsma

## Deadline for manuscript submissions

30 November 2025



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## Message from the Editor-in-Chief

*Remote Sensing* is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peerreview process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

## Editor-in-Chief

Dr. Prasad S. Thenkabail

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