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Nota di contenuto	Chapter1. Detection of Coccolithophore bloom episodes in Algiers Bay using satellite and in-situ analysis -- Chapter2. Multiscale spatiotemporal NDVI mapping of salt marshes using Sentinel-2, Dove, and UAV imagery in the Bay of Mont-Saint-Michel, France -- Chapter3. Contribution of near and mid infrared wavebands to mapping fine- scale coastal ecogeomorphological features -- Chapter4. Monitoring land cover change in the south-eastern Baltic sea since the 1980s by remote sensing -- Chapter5. Assessment of land cover changes in the Allala watershed based on object based image analysis using Landsat and Sentinel-2 images -- Chapter6. Deep Learning based Bathymetry Mapping from Multispectral Satellite Data around Europa Island --

Chapter7. Assessment of coastal vulnerability to erosion risk using geospatial and remote sensing methods (case of Jerba Island, Tunisia) -- Chapter8. A Random Forest approach for evaluating forest cover changes outside dikes with Sentinel images -- Chapter9. Spatial monitoring of coastal protection dikes case-study of the touristic beach "Palm Beach, west-Algiers Algeria" -- Chapter10. Monitoring shoreline changes in the Vietnamese Mekong delta coastal zone using satellite images and wave reduction structures -- Chapter11. Automatic detection of hydrodynamical and biological indicators of the shoreline using a convolutional neural network -- Chapter12. Very high-resolution monitoring and evaluation of tidal and ecological restoration in Beausseis' bay -- Chapter13. Assessment of shoreline change of Jerba Island based on remote sensing data and GIS using DSAS tools -- Chapter14. New insights into the shallow morpho-sedimentary patterns using high-resolution topo-bathymetric lidar: the case study of the Bay of Saint-Malo -- Chapter15. Spatial modeling of the benthic biodiversity using topo-bathymetric lidar and neural networks -- Chapter16. Local circalittoral rocky seascape structuring fish community: insights from a photogrammetric approach -- Chapter17. Local circalittoral rocky seascape structuring fish community: insights from a photogrammetric approach -- Chapter18. Increasing the nature-based coastal protection using bathymetric lidar, terrain classification, network modelling: reefs of Saint-Malo's lagoon?.

Sommario/riassunto

This volume presents full paper contributions from the International Conference of European Spatial Data for Coastal and Marine Remote Sensing (EUCOMARE) 2022, with the support of the ERASMUS+ Programme of the European Union, held in Saint Malo, France. EUCOMARE aims to promote academic and technical exchange on coastal related studies including coastal environmental and socio-economic issues, with the use of European remotely sensed data. The book is an excellent resource for scientists, engineers, and programme managers eager to learn about the recent developments and achievements in the field of remote sensing applications on marine and coastal areas. Readers will learn about recent advances in sensors' radiometric, spatial, temporal and spectral resolution, as well as new data processing approaches in remote sensing for monitoring and mapping the various characteristics of marine, coastal and aquatic systems.
