

Special Issue Reprint

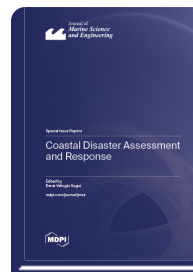
Coastal Disaster Assessment and Response

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Coastal communities have become increasingly vulnerable to natural hazards due to the escalating impacts of climate change. This Special Issue brings together innovative research focused on understanding, modeling, and mitigating coastal hazards. Contributions explore topics such as storm surge prediction using ensemble neural networks, seismic-induced liquefaction behavior in coastal embankments, the role of vegetation in wave attenuation and dune erosion, and numerical modeling of scour patterns. Several studies emphasize the technological advances, including the use of GIS, remote sensing, and climate modeling to improve hazard forecasting and vulnerability mapping. Other works investigate historical cyclone trends, tsunami risk assessment, and structural responses of buildings to coastal disasters. The findings underscore the need for integrated risk reduction strategies that combine engineering, environmental, and social perspectives. This reprint provides essential insights for researchers, planners, and policymakers working to enhance coastal resilience and disaster preparedness in the face of intensifying environmental threats.

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