

Special Issue

Sustainable Risk Assessment and Coastal Vulnerability

Message from the Guest Editors

Coastal zones are dynamic yet increasingly threatened by sea-level rise, erosion, flooding, slope instability, and human pressures. This Special Issue examines coastal risks through sustainable, integrated approaches linking natural and social sciences for improved understanding and climate adaptation. We welcome research, reviews, and case studies on coastal hazards, exposure, social vulnerability, and resilience under current and future sea-level rise. Studies using geospatial or remote sensing tools, machine learning, or participatory scenario planning to support coastal risk governance are encouraged. The aim is to advance methods and case studies that integrate hazard analysis, socio-economic vulnerability, and sustainability principles to guide resilient coastal planning. This Special Issue fills gaps by connecting multi-hazard assessment with social and sustainability dimensions. Topics include coastal and multi-hazard assessment, exposure and social vulnerability assessment, resilience and adaptation, sustainable land-use and integrated coastal zone management (ICZM), geospatial and machine-learning tools, participatory planning, risk indices, and nature-based solutions.

Guest Editors

Dr. Jorge Trindade
Dr. Fatima El Bchari
Dr. José Leandro Barros

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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

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