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Reliability and Safety in Ocean and Coastal Engineering

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Message from the Guest Editor

Failures of process operations and safety-related systems in ocean and coastal engineering can lead to catastrophic accidents. Therefore, there are extremely strict requirements for reliability and safety in ocean and coastal engineering. Safety is a significant challenge during the exploration and development of ocean resources, and understanding reliability and safety is imperative to enhance the level of these activities. This Special Issue aims to present recent progress on reliability and safety techniques in ocean and coastal engineering. Potential topics include, but are not limited to:

- Methodologies for reliability and safety modeling, analysis and evaluation;
- Qualitative and quantitative risk assessment of engineering systems;
- Qualitative and quantitative risk assessment of oil spills and other accidents;
- Safety and risks in dangerous goods maritime transportation;
- Complexity and uncertainty analysis in the ocean context;
- Risk-informed decision making for offshore operations;
- Fault diagnosis/prognostics for offshore facilities;
- Loss prevention and barrier techniques in offshore and marine industries.



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Special Issue



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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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