

Special Issue

Risk and Reliability Assessment Related to Sustainable Development

Message from the Guest Editor

This Special Issue confronts the multifaceted challenges of managing the economic, environmental, and social dimensions of modern systems. Traditional risk assessment methodologies—designed for static, linear scenarios—fall short in capturing the dynamic interactions and inherent uncertainties characteristic of sustainable development contexts. Consequently, current research is dedicated to developing innovative approaches that incorporate advanced statistical models, big data analytics, and machine learning techniques to analyze heterogeneous data and more accurately predict potential vulnerabilities. Moreover, these studies highlight the importance of interdisciplinary collaboration by integrating insights from engineering, environmental sciences, economics, and social studies to build comprehensive risk indicators and adaptive reliability frameworks. Ultimately, our aim is to equip decision-makers with robust tools that enhance system resilience and enable informed policy-making, ensuring that sustainable development initiatives can effectively mitigate emerging risks while promoting long-term stability and growth.

Guest Editor

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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

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