

Special Issue

Smart and Sustainable Solutions for Landslide and Landslide Dam Risks in a Changing Climate

Message from the Guest Editors

Climate change intensifies the frequency and severity of landslides and landslide dams, threatening communities, infrastructure, and ecosystems.

Traditional mitigation approaches often lack adaptability to dynamic environmental conditions. This Special Issue seeks cutting-edge research on smart, sustainable, and resilience-driven strategies to predict, monitor, and mitigate these risks. We emphasize innovations leveraging AI, IoT, remote sensing, and nature-based solutions (NBS), alongside socio-economic policies for sustainable risk reduction. Aim: 1. Advance interdisciplinary frameworks integrating geotechnical engineering, climate science, and digital technologies. 2. Highlight low-carbon, eco-friendly mitigation measures. 3. Explore equity and governance in landslide risk management for vulnerable regions. Scope: This Special Issue aligns with *Sustainability*'s goals by addressing UN SDGs 11 (Sustainable Cities), 13 (Climate Action), and 15 (Life on Land). We welcome original research, reviews, and case studies focusing on the following: 1. AI and Digital Twins 2. Green Technologies 3. Climate Adaptation 4. Community Resilience

Guest Editors

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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

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