

Special Issue

System Risk, Reliability, and Resilience Assessment for Sustainability

Message from the Guest Editors

Critical infrastructure systems (e.g., water supply, transportation systems, security services) or industrial systems (e.g., oil and oil products production, food production) are fundamental for the economic development of any nation. However, these systems can face numerous disruptions and these disruptions cause not only physical damage, but also social, environmental, and economic impacts that impair community resiliency and sustainability. Therefore, it is necessary to assess and plan sustainable and resilient systems through preparedness, response, and recovery. This Special Issue aims to encourage studies exploring theoretical, methodological, and practical studies related to the system risk, reliability, and resilience assessment. This Special Issue focuses on, but is not limited to: Risk assessment and management; Vulnerability and consequence assessment; Sustainability assessment and resilience analysis; Resilience engineering; Risk-informed decision-making; Modelling and simulation platforms; Data-driven methods in risk and resilience analysis; Disaster risk and resilience for built infrastructure; System and community level resilience assessment.

Guest Editors

Dr. Golam Kabir
Dr. Muntasir Billah
Dr. Subhrajit Dutta

Deadline for manuscript submissions

closed (10 July 2023)



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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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