



System Risk, Reliability, and Resilience Assessment for Sustainability

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Message from the Guest Editors

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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