



European Safety and Reliability Conference

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esrel2021.org

CALL FOR ABSTRACTS

Special session on
Decision Science for resilience

Description

This special session calls for research works proposing quantifiable approaches to support practitioners in their decision-making process using realistic cases and/or scenarios. Such cases/scenarios should be characterized by the uncertainty of future disturbances (e.g., hazards), the high interdependency among the interconnected systems, and the existence of monetary-based decisions-making, which might conflict with other requirements, such as societal and political interests.

Motivation

Resilience assessment of engineering systems has attracted much attention from researchers in the last decade. Nevertheless, practitioners are still struggling to figure out how the tools and methods developed in the context of engineering resilience can be utilized in their daily activities and strategic plans to achieve structures and infrastructure that are proven to be resilient.

Objective

Analytical instruments designed to inform and prioritize actions and investments in competitive contexts, real and realistic case studies discussing mitigation plans and strategies, and value for money assessments of programs that aim at boosting the resilience of engineering systems are examples of the topics that this session will support.

Organizer

Last name First name, email, affiliation

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The validation of the special sessions will be done under the responsibility of the technical and scientific committee. Organizers are invited to provide a list of reviewers that may be supplemented by TC members to ensure consistency in the evaluation process.