

19 / 23
Sept. 2021
ANGERS
● **FR**



European Safety and Reliability Conference

esrel2021.org

CALL FOR ABSTRACTS

Special session on
Advancements in Resilience Engineering
of Critical Infrastructures

Description

This special session will focus on highlighting and disseminating current state-of-the-art methods and their practical applications in resilience engineering of critical infrastructures. We expect to have contributions for this special session jointly supported by the membership of ESReDA Project Group on Resilience Engineering and Modelling of Networked Infrastructure and by the members of the ESRA Technical committee on Critical Infrastructure.

Motivation

We believe that this topic is important to the field of safety and reliability assessment. Our modern society is dependent on many critical infrastructure systems. These include transport networks (rail, metro, highway, air traffic and shipping routes), utilities (electricity, gas, water) and communications (mobile phone, land line phones, internet). The disruption of such systems can have a big impact on the communities that they serve. The nature of the threats to these systems is also changing and includes failures, especially of aging infrastructure, natural disasters, the effects of climate change and deliberate acts such as terrorism. Such critical systems need to be resilient and there is a need for knowledge and skills of how to model and assess resilience of such systems.

Objective:

To promote and disseminate the current state-of-the-art methods and their applications for improving resilience of critical infrastructures.

Organizer

Rasa Remenyte-Prescott, r.remenyte-prescott@nottingham.ac.uk, University of Nottingham, UK, Lead of ESReDA PG on Resilience Engineering and Modelling of Networked Infrastructure

Giovanni Sansavini, sansavig@ethz.ch, ETH Zurich, Chair of the ESRA Technical Committee on Critical Infrastructure

Most of our reviewers will be allocated from the membership of ESReDA PG on Resilience Engineering and Modelling of Networked Infrastructure.

Some suggested names are attached here:

John Andrews, University of Nottingham, UK

Vytis Kopustinskas, EC JRC, Ispra, Italy

Rob Basten, Eindhoven University of Technology, The Netherlands

Agnieszka Tubis, Wroclaw University of Science and Technology, Poland

Giovanni Sansavini, ETH Zurich, Switzerland

Christophe Berenguer, Univesité Grenoble Alpes, France

Andrej Utans, Riga Technical University, Latvia

Lisa Jackson, Loughborough University, UK

Stefan Schauer, Austrian Institute of Technology

Yiliu Liu, Norwegian University of Science and Technology

Jose Maria Yusta, University of Zaragoza, Spain

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 further TC members to ensure consistency in the evaluation process.