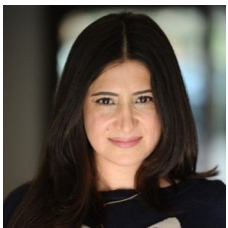


Special Session: Loss and resilience assessment tools for infrastructure exposed to natural hazards

Organizers



Nisrine Makhoul

Department of Civil and
Environmental Engineering
Notre Dame University,

Email: nmakhoul@ndu.edu.lb



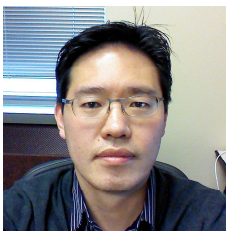
Sotiris Argyroudis

Department of Civil & Environ-
mental Engineering University
of Surrey, Guildford, UK

Email: s.argyroudis@surrey.ac.uk

Department of Civil Engineering
AUTH, Greece

Email: sarg@civil.auth.gr



Jong Sung Lee

National Center for Supercom-
puting Applications NCSA,
University of Illinois at Urbana
Champaign, Illinois, USA

Email: jonglee1@illinois.edu

Special Session description

Urban areas and critical infrastructure are exposed to natural and manmade hazards, which are becoming more frequent and have severe consequences on world economies and societies. Therefore, cities and infrastructure resilience to extreme events and diverse hazards such as tsunami, hurricanes, fires, landslides, floods, climate change, man-made and technological risks, is of paramount importance for maintaining functionality and operability during and after the hazard event. Risk analysis software is a powerful tool that provides well-informed loss estimates aiming to facilitate decision-making and risk management by stakeholders and city planners toward resilient cities, infrastructure and societies.

The present special session is motivated by the need to bring together developers and users of loss and resilience assessment tools for natural hazards aiming to present recent advances, discuss future needs and connect the latest research and engineering practices to practitioners and decision makers.

The session invites researchers, software developers, practitioners and stakeholders dealing with software on vulnerability, risk and resilience analysis of cities, buildings and infrastructure against natural and manmade hazards. The following themes are encouraged (but and not limited to it):

- Loss estimation and modeling platforms for natural or/and manmade hazards
- Multi-hazard assessment, response, and planning tools
- Resilience-based design and assessment tools for buildings and infrastructure
- Fragility assessment tools for buildings and infrastructure
- Decision support tools for risk management and recovery
- Case studies for cities and infrastructure exposed to diverse hazards

For more information regarding the Special Session, please, feel free to contact the session organizers.

ABSTRACT SUBMISSION :

<https://iconhic.com/2019/authors-area/>

Abstract Submission Deadline:

10 November 2018

 23 – 26 June, 2019 | Chania, GREECE