

Session ID: SHR-16

Title

NEW DATA AND CUTTING-EDGE TECHNOLOGIES FOR SEISMIC HAZARD ASSESSMENT AND RISK MITIGATION

Convenors

L. Danciu ¹, H. Crowley ², O.-J. Ktenidou ³

Description

Our technical session at the WCEE2024 aims at bringing together outstanding leading scientists and the community for an open conversation about the present-day challenges and the future vision of the seismic hazard and risk models in light of the new data and technological advance.

This session will explore state-of-the-art techniques, share experiences, and discuss potential breakthroughs in earthquake hazard assessment and risk mitigation. The session will be structured in three thematic parts related to seismogenic sources, ground motion and seismic risk to the built environment. The session chairs will moderate the discussion between the invited speakers as well as the audience, in an open discussion and opinion forum. Additionally, three contributions will be selected from all the submitted abstracts and they will be invited to take to the stage to share their views on each of the core themes.

We would encourage both experts and young researchers in seismology, geosciences, and engineering to submit their research findings, innovative methodologies, and case studies pertaining to the defined topics of the technical session. Contributions highlighting physics-based simulations, as well as current breakthroughs in AI and deep learning techniques for earthquake hazard and risk research, will be of great interest.

Invited Speakers

D. Giardini ¹, F. Cotton ⁴, V. Silva ⁵

Affiliations

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