

# Webinar Program



## EARTHQUAKE DAMAGE AND LOSS MODEL

**Wednesday, May 14, 2025**

**10:30 AM - 12:30 PM (Tehran Time)**

**9:00 - 11:00 AM (CET)**

Recent devastating earthquakes, such as the 2023 Türkiye event (Mw 7.8) and the Myanmar earthquake (Mw 7.7), highlight that seismic impacts remain severe in many parts of the world. Understanding where and why seismic risk is high is essential for reducing these losses. Effective risk mitigation depends on innovative and accurate loss models, which must be validated and calibrated using reliable real-world data. Validating these models by repeating past earthquake scenarios requires open, comprehensive databases that capture all critical components of historical events.

This webinar, organized by IIEES, GEM, IEEA and RCECWA, brings together experts to present advances in seismic risk assessment, casualty modeling, and the development of critical earthquake impact databases.

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| <b>10:30 – 10:40</b><br>(Tehran Time)<br><b>9:00 – 9:10 (CET)</b>   | <b>Opening Statement:</b><br><b>Prof. Mohsen Ghafory-Ashtiany, IIEES, Iran</b><br>Scope of Webinar  |
| <b>10:40 – 11:20</b><br>(Tehran Time)<br><b>9:10 – 9:50 (CET)</b>   | <b>Presentation 1:</b><br>Drivers of Earthquake Damage and Losses: Global Perspective on Where and Why Seismic Risk is High<br><b>Prof. Vitor Silva, University of Aveiro, Portugal</b>                 |
| <b>11:20 - 12:00</b><br>(Tehran Time)<br><b>9:50 – 10:30 (CET)</b>  | <b>Presentation 2:</b><br>Development of Multi-Severity Casualty Model for Iran Earthquakes<br><b>Dr. Erfan Firuzi, IIEES, Iran</b>   |
| <b>12:00 - 12:40</b><br>(Tehran Time)<br><b>10:30 – 11:10 (CET)</b> | <b>Presentation 3:</b><br>Development of a Global Earthquake Impact Database (GEID) for the Verification and Calibration of Loss Models<br><b>Ms. Zarin Karim Zadeh, University of Aveiro, Portugal</b> |

Moderator: Prof. Mohsen Ghafory-Ashtiany

Link: <https://teams.live.com/meet/9360978222019?p=yIEE0qmdxln1wkUtXQ>

Location: 6<sup>th</sup> Floor, IIEES

