IGSNRR, CAS – IIEES - RCECWA Joint Workshop

"Natural Disaster Loss Assessment and Early Warning System"

Date: Thursday, November 12, 2026

BJUT, Beijing, China

The Institute of Geographic Sciences and Natural Resources Research (IGSNRR), Chinese Academy of Sciences (CAS), the International Institute of Earthquake Engineering and Seismology (IIEES), and the UNESCO Regional Education and Research Center on Earthquake Risk and Resilience in West and Central Asia (RCECWA) are promoting international scientific and academic exchange on disaster risk reduction.

Post-disaster rapid loss assessment is a structured process for estimating damage and economic losses within hours to days of a hazard event. It draws on sensor-triggered hazard maps with established loss models, field reconnaissance, remote sensing and damage mapping, and pre-established damage functions to generate preliminary estimates of destroyed buildings, disrupted infrastructure, and affected populations. Its value lies not in precision but in speed and usability—giving decision-makers enough information to prioritize search-and-rescue, allocate emergency resources, and declare states of emergency. Rapid estimates also provide an early basis for activating financial instruments such as catastrophe insurance, emergency credit lines, and crisis funds. Integrated into a systems-based resilience framework, they bridge emergency response and long-term recovery by feeding real-time data into reconstruction planning and economic stabilization.

Program

9:00 – 9:15 (Tehran time) **13:30 – 13:45** (Beijing time)	**Opening Statement Workshop Objective and Plan by:** ***Prof. Peng Cui:*** *Prof. of IGSNRR,CAS： Future Direction of Natural Disaster Forecasting* ***Prof. Mohsen Ghafory-Ashtiany****: Prof. of IIEES (Iran) and Guest Professor of BJUT (China)*
9:15 – 12:00 (Tehran time) **13:45 – 16:30** (Beijing time)	**Presentations** 1. ***Prof. Juanle Wang:*** *Remote Sensing for Quick Post-Disaster Loss Assessment From disaster data to actionable information: supporting timely, evidence -based loss assessment and emergency decision making* 2. ***Prof. Babak Mansouri:*** *Remote Sensing for Quick Post-Disaster Loss Assessment* 3. ***Prof. Zeren Zhima:*** *Presentation on Remote Sensing in China, Nat. Inst. for Natural Hazard* 4. ***Prof. Tao Wang: IEM,*** *Seismic monitoring and rapid safety assessment for key infrastructures* 5. ***Dr. Chaodong Zhou:*** *Detection and Ana lysis of Ground Deformation in the Beijing Plain Based on Improved Time-Series InSAR* 6. ***Dr. Jian Guo:*** *Data- and Physics-Driven Mountain Hazard Risk Assessment* 7. ***Dr. Chunhao Wu:*** *Novel mechanism driven indicators for rockslide and coseismic landslide susceptibility assessment* 8. ***Mr. Zili Wang:*** *Data-Physics Coupled Intelligence: The Next-Generation Debris Flow Early Warning System* 9. ***Dr. Yaqiao Wu****: Road Network Disruption: A Systemic Risk Perspective* 10. ***Prof. Anooshirvan Ansari****: Iran Rapid Post Earthquake Damage Estimation (online presentation)* *Note: Each Lecture is 20 minutes and follows by 10 minutes Q/A*
12:00 - 13:00 (Tehran time) **16:30 – 17:30** (Beijing time)	**Discussion: Moving Forward** ***Moderated by Prof. Peng Cui and Prof. Mohsen Ashtiany***