2025 International Training Workshop on Disaster Risk Reduction Innovation: Digitalized Disaster Governance in the AI Era

October 28–31, 2025
Taipei, Taiwan
In-person | English Language

In recent years, the frequency and severity of extreme weather events and natural disasters have risen, significantly impacting societies, economies, and the environment worldwide. Due to its diverse vulnerabilities and high exposure to climate change, the entire world continues to face serious disaster risks such as typhoons, floods, earthquakes, and landslides. This increasing complexity requires smarter, more adaptive disaster management systems.

The progress of digital and smart technologies, including Artificial Intelligence (AI), Large Language Model (LLM), Big Data Analytics, the Internet of Things (IoT), and Remote Sensing, offers promising solutions. These technologies are rapidly transforming disaster risk management—from hazard monitoring and risk assessment to early warning and information-intelligence-based decision-making.

The 2025 International Training Workshop (2025 ITW) on Disaster Risk Reduction Innovation aims to:

- Enhance participants' understanding of smart technologies for disaster resilience.
- Foster cross-national exchange of knowledge and practical experiences.

Participants will gain from an engaging and interactive 4-day in-person program consisting of:

- Keynote Lectures

Global experts will share insights on: AI applications in disaster risk reduction, building climate-resilient cities, risk modeling, and digital transformation.

- Thematic Sessions

Deep-dive discussions will include: AI-powered weather recognition and predicting extreme rainfall, Earthquake impact assessment using machine learning, Smart flood and landslide early warning systems, big data analytics for social issues, and AI-assisted emergency response and population flow analysis.

Venues

The Hotel in Taipei (TBD)

Accommodation

The Hotel in Taipei (TBD)

Tentative Programme

Day 0: Monday, October 27, 2025

Arrival in Taiwan

Day 1: Tuesday, October 28, 2025

09:00 – 09:30 Registration

09:30 – 10:10 Welcome Remarks

Group Photo

2025 ITW Introduction

Self-Introduction by all participants

10:20 – 10:40 Break

10:40 – 11:20 Keynote lecture #1

11:20 – 12:00 Keynote lecture #2

12:00 – 13:30 Lunch

13:30 – 14:10 Keynote lecture #3

14:10 – 15:00 Topic talk #1

15:30 – 15:20 Break

15:20 – 16:10 Topic talk #2

16:10 – 17:00 Topic talk #3

17:30 – 19:30 Welcome Reception

Day 2: Wednesday, October 29, 2025

09:00 – 09:50 Keynote lecture #4

09:50 – 10:40 Keynote lecture #5

10:40 – 11:10 Break

11:10 – 12:00 Keynote lecture #6

12:00 – 13:30 Lunch

13:30 – 14:20 Topic talk #4

14:20 – 15:10 Topic talk #5

15:10 – 15:30 Break

15:30 – 16:20 Topic talk #6

16:20 – 17:10 Topic talk #7

Day 3: Thursday, October 30, 2025

09:00 – 09:50 Topic talk #8

09:50 – 10:40 Topic talk #9
10:40 – 11:10 Break
10:50 – 12:00 Topic talk #10
12:00 – 13:30 Lunch
13:30 – 14:20 Topic talk #11
14:20 – 15:10 Topic talk #12
15:10 – 15:30 Break
15:30 – 16:20 Topic talk #13
16:20 – 17:10 Topic talk #14

Day 4: Friday, October 31, 2025
09:00 – 09:50 Travel to NCDR
09:50 – 10:30 Closing Ceremony
10:30 – 11:20 NCDR Introduction
11:20 – 12:00 CEOC Introduction
12:00 – 13:30 Farewell Lunch
13:30 – 14:00 Travel to Taipei 101
14:00 – 16:00 Visit the Taipei 101
16:00 Adjourn

Saturday, November 1, 2025
Departure from Taiwan

**The Topic talks will be included:

- The Application of AI to Enhance Weather Pattern Recognition Techniques
- The Application of AI Technologies to Mitigate Earthquake Impacts
- Enhancing Flood and Landslide Early Warning Capabilities through AI Applications
- AI-Assisted Disaster Response Decision-Making and Public IoT Applications

Contact for Query

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*Explore more information about the past ITWs, please use the following links:
•https://www.youtube.com/watch?v=4KN3xR8y8uc&t=3s
•https://www.ncdr.nat.gov.tw/Message/MessageView?itemid=5957&mid=95
•https://www.ncdr.nat.gov.tw/Message/MessageView?itemid=4781&mid=95
•https://www.ncdr.nat.gov.tw/Message/MessageView?itemid=4185&mid=95