itdrr 2025
Information Technology in
Disaster Risk Reduction
Kyoto, Japan, 14-16 October, 2025

The 10th IFIP WG5.15 Conference on Information Technology in Disaster Risk Reduction (ITDRR2025)

14-16 October, 2025

Timetable

Time Slots	Tuesday 14 October 2025
9:00~10:00	Registration
10:00~10:30	Opening Remarks
10:30~11:30	Keynote 1
11:30~13:00	Lunch Break
13:00~15:00	**Session 1: Community Resilience and Local Government**
15:00~15:30	Coffee Break
15:30~17:30	**Session 2: Information for Disaster Management**
17:45-19:15	Welcome Reception

	Wednesday 15 October 2025
9:00~9:30	Morning Welcome
9:30~10:30	Keynote 2
10:30~11:00	Coffee Break
11:00~12:30	**Session 3: Social Network and Trust**
12:30~14:00	Lunch Break
14:00~15:00	**Late-breaking Poster Presentations**
15:00~15:30	Coffee Break
15:30~17:30	**Session 4: Preparedness and Risk**
19:00~	Banquet

	Thursday 16 October 2025
9:00~9:30	Morning Welcome
9:30~10:30	Keynote 3
10:30~11:30	**Session 5: Evacuation1**
11:30~13:00	Lunch Break
13:00~14:30	**Session 6: Evacuation2**
14:30~15:00	Awards Ceremony and Closing Remarks
15:15~20:00	Excursion + dinner

Keynote Speeches

10:30~11:30 (JST), 3:30~4:30 (CET), Tuesday 14 October 2025

Keynote 1:
"A Transdisplinary Approach of Risk and Crisis Communication: Community Resilience in the Face of Climate Change"
Caroline Rizza,
     Associate Professor, I3-Telecom Paris, France

9:30~10:30 (JST), 2:30~3:30 (CET), Wednesday 15 October 2025

Keynote 2:
"The truth relieved by disasters beyond knowledge - Information connect phenomena -"
Shigeru Kakumoto,
Researcher, DiMSIS Institute, Japan

9:30~10:30 (JST), 2:30~3:30 (CET), Thursday 16 October 2025

Keynote 3:
"Innovations in Handling Epidemic Data and Their Impact on Emergency Response"
Hiroshi Nishiura,
Professor, Kyoto University, Japan

Tuesday 14 October 2025

10:00~10:30 (JST)
Opening Remarks

10:30~11:30 (JST)
Keynote 1: Caroline Rizza
Chair: *Dr. Yuko Murayama* (Tsuda University)

13:00~15:00 (JST)
Session 1: Community Resilience and Local Government
Chair: *Prof Christian Webersik* (University of Agder)

1-1 "Developing Interdependent Digitalized Co-production of Emergency Response: Requirements and Challenges"
Sofie Pilemalm, Mohamud Yusuf Mohamed and Emma Finnevidsson

1-2 "Resilience of local community in the tourist area of Labuan Bajo, Indonesia: A perspective from risk and crisis communication"
Osmar Shalih, Putri Wibawanti and Caroline Rizza

1-3 "Information Platform Supporting Mutual-Assisted Evacuation at Urban Disasters"
Tomohiro Kokogawa, Taiki Yuasa and Keihiro Ochiai

1-4 "Integrated Natural Disaster Notification System and Logistics/Resource Management Solution for Disaster Risk Reduction Agencies in the Philippines"
Brad Reddersen, Ria Alaba and Tim Loncarich

Session 2: Information for Disaster Management
Chair: *Prof Jaziar Radianti* (University of Agder)

2-1 "Design Requirements for Information Systems Supporting Health, Medical and Welfare Coordination During Disasters: Insights from Multi-layered Analysis"
Shoko Miyagawa and Yoko Hamadate

2-2 "A Support System for Disaster Preparedness Workshops with Hazard Information Viewing and 3D Urban Model-based Reflection Walkthroughs"
Keisuke Utsu, Mami Aida and Osamu Uchida

2-3 "Estimating Personal Natural Disaster Risk Using Smartphone Location Data-Comparative Analysis of Two Cities in Japan-"
Mizuki Miura, Akihiro Kobayashi and Daisuke Kamisaka

2-4 "A Study on Aerial Image-Based Road Damage Estimation System in Wide-Area Disasters"
Kyohei Fukumoto, Koki Asami, Shono Fujita, Kei Hiroi and Michinori Hatayama

Wednesday 15 October 2025

9:30~10:30 (JST)
Keynote 2: Shigeru Kakumoto
Chair: *Prof. Michinori Hatayama* (DPRI, Kyoto University)

11:00~12:30 (JST)
Session 3: Social Network and Trust
Chair: *Prof. Osamu Uchida* (Tokai University)

3-1 "Machine Learning Model to Predict Opinion Polarization in Indonesian Social Network on Ivermectin as Covid-19 Cure"
Jaziar Radianti, Asep Sholahuddin and Irlandia Ginandjar

3-2 "The Importance of Trust in Reducing Disaster Risk: Evidence from Norway"
Christian Webersik and Emily Klassen

3-3 "Social Network Analysis of Civilian Support Networks for the Ukrainian Military"
Myroslava Kushnir and Anna Nagurney

14:00~15:00 (JST)
Poster Session (G**: General, S**, Student)
Chair: *Assc. Prof. Keisuke Utsu* (Tokai University)

G02: "Virtual Reality for Decontamination Training"
Anissa Lye and David Teng

G03: "Machine Learning Solutions in Identifying Potential Human Trafficking Recruitment During Humanitarian Disasters: Case Study of Ukraine"
Renata Konrad

G04: "Data flow Diagram, which generated from "the warning system in flood disasters, case study from Chiang Mai, Thailand 2024"
Siripen Iamurai and Pathawit Chongsermsirisakul

G05: "Using Industry Sector Entropy to Predict Economic Community Disaster Resilience: Real-world Verification from the COVID-19 Pandemic"
Thomas Brindle

G06: "A study on the effects of ""Nigechizu"" workshop - A case study of a disaster prevention learning program in Utsunomiya City, Tochigi, JAPAN -"
Masako Inoue

G07: "Phase Transition of Information Support Needs in Disaster Response: Insights from a Decade of IT DART Operations in Japan"
Dai Sato

G08: "Mapping Challenges of Inter-Agency Communication and Coordination in Disaster Response: A Multi-Stakeholder Study from Türkiye"
Pinar Umul Unsal

G09: ""Simulating a Crisis: How Virtual Experience Shapes Decision-Making in Disaster Preparedness"
Pinar Umul Unsal

S01: "Modeling the Decay of Social Interest in Earthquake Disasters: A Two Phase Time Series Analysis of Newspaper Coverage"
Kaito Fujie

S02: "A Study on a Disaster Analysis Platform Using SNS Comment Analysis and Secondary Data Generation"
Masami Shinoda

S03: "Human-Centered Narratives from Evacuation Simulations: Automatic Generation Using LLMs and Multimodal RAG"
Yuto Hirahata

S04: "Bridging Cost and Safety: A STAMP/STPA Approach to Quadruped Robots Deployment in SAR Operations and Bousai-DX Integration"
Princelove Herbert

S05: "Early Warning of Frailty in Evacuation Shelters Using Gait Speed Detection by IMU"
Haruto Nakai

S06: "Consideration of Practical Utilization of Spacetime Geographic Information Systems for Local Governments: A Disaster Scale-Based Approach"
Koki Kaneko

S07: "Analysis of evacuation route model based on residents' risk preferences under inundation conditions"
Chisa Baba

S08: "Concept and Development of Disaster Prevention Fashion"
Naoko Tosa, Natalie Ng Jen Ryu, Yusuke Takikawa and Ryohei Nakatsu

15:30~17:30 (JST)
Session 4: Preparedness and Risk
Chair: *Assc. Prof. Terje Gjøsæter* (University of Agder)

4-1 "AI in Action: Evaluating Chatbot-Supported Reflection for Incident Commander Training"
Daniel Jefimov, Reet Kasepalu, Gerti Pishtari and Edna Milena Sarmiento-Márquez

4-2 "A systematic review of GeoAI for Disaster Risk Reduction: Synergies, Challenges, and Future Directions"
Hanqi Li, Kei Hiroi and Michinori Hatayama

4-3 "Enhancing Shared Situational Awareness Through Information Trading Zones in Emergency Management"
Kjetil Rustenberg and Kristine Steen-Tveit

4-4 "Inference of a Weighting Scheme for Cybersecurity Game Simulations"
Jennifer-Marieclaire Sturlese and Edgar Weippl

Thursday 16 October 2025

9:30~10:30 (JST)
Keynote 3: Hiroshi Nishiura
Chair: *Prof. Michinori Hatayama* (DPRI, Kyoto University)

10:30~11:30 (JST))
Session 5: Evacuation1
Chair: *Prof. Sofie Pilemalm* (Linköping University)

5-1 "A Method for Deriving Evacuation Routes Considering Road Blockages during Earthquakes with Physarum Solver"
Rei Fujiwara and Kayoko Yamamoto

5-2 "A Framework of Emerging Technology-Enabled Evacuation System for Active Shooter Disaster in the Built Environment"
Jong Han Yoon

13:00~14:30 (JST)
Session 6: Evacuation2
Chair: *Prof. Jun Sasaki* (Yamato University)

5-1 "Proposal for the Information Infrastructure Construction and Operation Support System in Evacuation Shelters During Disasters"
Kohichi Ogawa, Nobukuni Hamamoto, Dai Sato, Hiroki Kashiwazaki, Motoyuki Ohmori and Takeshi Ikenaga

5-2 "Search Method for Evacuation Routes during Tsunamis Using Cuckoo Search"
Takeya Okimura and Kayoko Yamamoto

5-3 "Augmented Reality based Spatially Guided Navigation to Emergency Collection Points for Flood Evacuation: A Pilot Study in Mumbai, India"
Sanjay Saifi and Raaj Ramsankaran

14:30~15:00 (JST)
Awards Ceremony and Closing Remarks
Chair: *Assc. Prof. Kei Hiroi* (DPRI, Kyoto University)