

AIWEST-DR 2026 Conference Report (22–24 July 2026)

Theme: Resilience by Design: Systems for Sustainable Recovery
Venue: Mandarin Hotel Samyan (Bangkok, Thailand), onsite/online
URL: <https://aiwest-dr2026.eng.chula.ac.th/#home>

The Faculty of Engineering, Chulalongkorn University, hosted the 18th Aceh International Workshop and Expo on Sustainable Disaster Recovery (AIWEST-DR 2026) on 22–24 July 2026 in Bangkok, Thailand. The conference was co-organized with the Tsunami and Disaster Mitigation Research Center (TDMRC), Universitas Syiah Kuala, IRIDeS (Tohoku University), and numerous international academic and governmental partners. The 2026 theme, 'Resilience by Design: Systems for Sustainable Recovery,' highlighted interdisciplinary approaches to disaster resilience, recovery, risk reduction, and sustainable development.

Day 1 featured keynote lectures by Professor and Deputy Governor of Bangkok Tawida Kamolvej; IRIDeS Director Prof. Shunichi Koshimura (Disaster Geo-Informatics Lab); Professor Akira Kodaka (Keio University); Giorgia Giardina (TU Delft); Bhichit Rattakul (Thai Network for Resilience); and Adam Switzer (Nanyang Technological University). This was followed by a SATREPS special session on sustainable systems for resilience and innovation in coastal communities, chaired by Assoc. Prof. Anawat Suppasri (Tsunami Engineering Lab), and then the official opening ceremony and keynote lectures covering earthquake and tsunami research in Thailand, lessons from Cyclone Senyar in Aceh, flood disasters under extreme weather, smart seismic materials, digital twins for disaster resilience, and earthquake observation platforms. Parallel sessions focused on hazard assessment, disaster education, inclusive community resilience, and disaster engineering.

Day 2 consisted of scientific sessions covering smart cities, community resilience, tsunami and flood risk, health and well-being, governance, finance, resilient infrastructure, disaster preparedness, evacuation, and community innovation. The conference concluded with a closing ceremony and banquet celebrating continued international collaboration. On Day 3, participants joined a technical tour to Thailand's Earthquake Observation Warning facilities and the National Disaster Warning Centre.

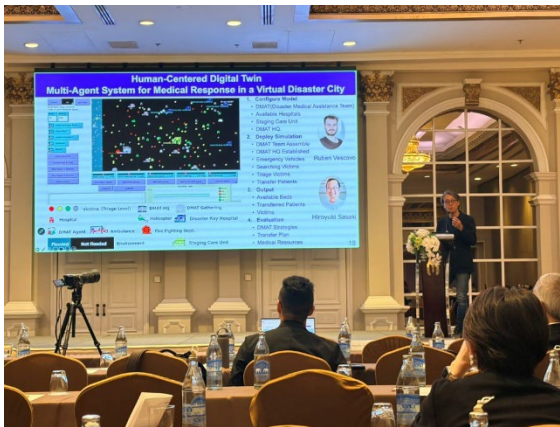
In total, 22 IRIDeS researchers made a strong contribution to AIWEST-DR 2026, delivering 20 presentations across a broad range of thematic sessions. The largest contributions were in Hazard Impact Assessment (5 presentations) and Inclusive Community Resilience & Disaster Education (5 presentations), followed by Disaster Society, Culture & History (4), Business Continuity Management (2), Urban Planning, Reconstruction & Recovery (2), and Disaster Response and Evacuation (2). These presentations reflected the breadth of IRIDeS research, spanning hazard assessment and modelling, tsunami science, inclusive disaster risk reduction, disaster education, disaster memory, business continuity, urban resilience, post-disaster recovery, and disaster response.

IRIDeS members were also recognised for their outstanding research achievements during the conference. In particular, Muhammad Daffa Al Farizi, Anawat Suppasri, Tsuyohasi Nagasawa, Yukio Mabuchi, Yuuya Narita, Hidetoshi Masuda, Shuji Moriguchi, Yoshinori Shigihara, Daichi Sugo, and Fumihiko Imamura received the Best Paper Award for their presentation, *Consideration of the Time-Lag Effects in Submarine-Landslides Based on 3D Slope Stability Analysis in Toyama Bay*. This recognition highlights the high quality and

international impact of IRIDeS research presented at AIWEST-DR 2026. Assoc. Prof. Erick Mas (Disaster Geoinformatics Lab), Jheyder Perez, Luis Moya, Shunichi Koshimura were also awarded best paper award for *Developing a Global Tsunami Evacuation Model (GTEM): A Practitioner-Centered Framework for Local Government Planning and Education*. Finally, former student of Anawat and affiliated with the Tsunami Engineering Lab, Dr. An-Chi Cheng, received the best paper award for a paper co-authored with Anawat Suppasri and Erick Mas

Text and Photos

Sébastien P. Boret (Inclusive Disaster Risk Reduction Lab)
Anawat Suppasri (Tsunami Engineering Lab)
Elizabeth Maly (International Research Collaboration Office)
Erick Mas (Disaster Geo-informatics Lab)



Keynote by Director Shinichi Koshimura



Keynote by Assoc. Prof. Anawat Suppasri



Group Photo, AIWEST-DR 2026, "Bye and see you in Turkey!"

Presenters and titles from IRIDeS members

Authors	Affiliation	Title
Constance Ting Chua, Yushi Miki, Anawat Suppasri, Susanna F. Jenkins, David Lallemant, Fumihiko Imamura, Adam D. Switzer	Tsunami Engineering Lab	<i>Approaches and Challenges in Estimating Economic Losses from Tsunami Damage Models</i>
Yushi Miki, Anawat Suppasri, Constance Ting Chua, An-Chi Cheng, Tomoya Iwasaki, Yugo Shinozuka, Takafumi Ogawa, Fumihiko Imamura	Department of Civil and Environmental Engineering, Tohoku University	<i>An Approach for the Probabilistic Estimation of Tsunami-induced Business Interruption Loss</i>
Muhammad Daffa Al Farizi, Anawat Suppasri, Tsuyohasi Nagasawa, Yukio Mabuchi, Yuuya Narita, Hidetoshi Masuda, Shuji Moriguchi, Yoshinori Shigihara, Daichi Sugo, Fumihiko Imamura	Tsunami Engineering Lab	<i>Consideration of the Time-Lag Effects in Submarine-Landslides Based on 3D Slope Stability Analysis in Toyama Bay</i>
Sesar P.D. Sriyanto, Bruno Adriano, Erick Mas, Shunichi Koshimura	Disaster Geo-informatics Lab	<i>Deep Learning Super-Resolution of Tsunami Inundation Maps: Application to the 2006 Pangandaran Tsunami</i>
Miki Ishikawa, Rieko Takahashi, Julia Gerster, Hiroyuki Sugai	Uehiro Disaster Risk Reduction Research Division	<i>Building an Inclusive Workplace for Disaster Risk Reduction: Interactions with Hearing-Impaired Colleagues</i>
Sébastien P. Boret, Hyejeong Park, Alfi Rahman	Inclusive DRR Lab	<i>Shifting from Support-Based to Internal Asset-Based DRR with People with Disabilities in Banda Aceh</i>
Elizabeth Maly	International Research Development Office	<i>Picturing Nature after Disaster: Narrative Images in 3.11 Disaster Picture Books</i>
Erick Mas, Jheyder Perez, Luis Moya, Shunichi Koshimura	Disaster Geo-	<i>Developing a Global Tsunami Evacuation Model (GTEM): A</i>

Authors	Affiliation	Title
	informatics Lab	<i>Practitioner-Centered Framework for Local Government Planning and Education</i>
Michi Fukushima	Resilience EICT Research Promotion Office	<i>From Post-Disaster Recovery to Business Growth: The Transition in Entrepreneurial Behavior from Effectual to Causal Logic</i>
Ruben Vescovo, Erick Mas, Shunichi Koshimura	Disaster Geo-informatics Lab, IRIDeS	<i>Investigating Group Decision Making and Survival under Time Pressure – An Agent-Based Perspective</i>
Ryo Saito, Akihiro Shibayama, Akira Chigama, Hideaki Onodera, Jun Mitarai, Fumihiko Imamura	Cognitive Sciences Lab	<i>BOSAI Human Resource Development in the Fukushima Hamadori Region: The FUKUSHIMA Science Park Initiative amid Recovery</i>
Julia Gerster, Elizabeth Maly, Ryo Saito, Ryo Okazaki, Miki Ishikawa, Yumiko Saito, Rieko Takahashi, Nobuko Igari, Takeshi Sato	Tohoku University (IRIDeS)	<i>Making Inclusive Disaster Risk Reduction Engaging: The Multicultural DRR Treasure Hunt and Workshop</i>
Yugaku Ikawa, Hyejeong Park	Tohoku University	<i>Toward Integrated Disaster Resilience Building: Roles of the Buddhist NGO in the 2024 Noto Peninsula Earthquake</i>
Hyejeong Park, Sébastien P. Boret, Alfi Rahman	IRIDeS, Tohoku University	<i>Inclusive Disaster Risk Reduction and the Socio-Technical Gap: Strategies through Infrastructure and Localized Knowledge</i>
Aiko Sakurai	Disaster Education Research and Implementation Lab; Kobe University	<i>Strategic Roadmap for Indonesia's School-Based EEWRs: Integrating Historical Implementation Lessons and Pedagogical Frameworks from Japan</i>

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Daisuke Komori, Sartsin Phakdimek	Water Disaster Risk Research Lab	<i>Historical Buddhist Temples as Materialized Archives: Investigating Long-term Socio-hydrological Resilience in the Chao Phraya River Basin</i>
Zhaolong Gu, Daisuke Komori, Sartsin Phakdimek, Thapthai Chaithong	Water Disaster Risk Research Lab	<i>Pluralizing Water Knowledge: Buddhist Temples as Materialized Archives for Long-Term Human-Floods Relationships</i>
Yuto Mukaida, Constance Ting Chua, Nattapon Trumikaborworn, Panon Latcharote, Anawat Suppasri, Fumihiko Imamura	Tsunami Engineering Lab	<i>Enhancing coastal elevation accuracy for tsunami inundation modelling with Satellite-Derived Bathymetry along Andaman coast, Thailand</i>
Chi-Chun Lin, Osamu Murao, Yun-Chi Yu	International Strategy for Disaster Mitigation Lab	<i>Economic Evaluation for Proactive Relocation: Cost-Effectiveness Analysis of the 2025 Mataian Creek Incident</i>
Iqbal Ardiansyah, Anawat Suppasri, Katsuichiro Goda, Iyan E. Mulia, Muhammad Daffa Al Farizi, Syamsidik, Fumihiko Imamura	Tsunami Engineering Lab	<i>Evaluating Tsunami Hazard Using Time-Dependent Probabilistic Methods: Application to the Aceh–Andaman Segment Incorporating Sea Level Rise</i>
Mufidatun Khoiriyah, Osamu Murao, Yun-chi Yu	International Strategy for Disaster Mitigation Lab	<i>Urban Morphology and Tsunami Evacuation Accessibility: A Comparative Spatial Analysis of Cilacap and Kuta, Indonesia</i>