

2026

4/13 MON → **4/17** FRI

4/13 workshop, 4/14-15 oral and poster, 4/16-17 field trip

[Official Website](#)

Taiwan International Symposium on Land Subsidence

Ground Deformation in a Changing World:
Land Subsidence, Climate, and Resilience

Call for Abstracts

Abstract Submission Guidelines

Abstract submission timeline: **Now ~ 2025/10/31 23:59:59 (UTC+8)**

Notification of Acceptance: **2025/11/15**

Preferred presentation type:

General Oral Presentation

General Poster Presentation

Student Oral Presentation

Student Poster Presentation

Keywords: Please provide 3–5 keywords relevant to land subsidence topics

Detail information can be found on the website: [Submission](#).

- Note: For this conference, only the abstract booklet will be made available; full papers will not be published, and no ISBN/CIP registration will be obtained.

Journal special issue

**Terrestrial, Atmospheric and Oceanic
Sciences (TAO, Open access)**

[Ground Deformation in a Changing World:
Land Subsidence, Climate, and Resilience](#)

Water (MDPI, Open access)

[Sustainable Groundwater Management and
Mitigation of Land Subsidence: Evaluating
Environmental Impacts and Resilience
Strategies](#)

- Note: Submitting to journal is optional. Outstanding papers may be recommended for publication in TAO or Water.

Workshop and Keynote Speaker



Prof. Ramon Hanssen
Delft University of Technology

Ramon Hanssen is Antoni van Leeuwenhoek professor in Geodesy and Satellite Earth Observation at Delft University of Technology. He studied aerospace engineering and geodetic engineering (M.Sc. 1993). He received his PhD degree (cum laude) on the geodetic analysis of repeat-pass spaceborne radar interferometry, with emphasis on error propagation, and wrote a standard textbook on radar interferometry.



Prof. Ronaldo Borja
Stanford University

Ronaldo I. Borja works in theoretical and computational mechanics with applications to geomechanics, geotechnical engineering, and geosciences. His research includes the development of mathematical and computational frameworks for multiscale and multi-physical processes in geomechanics and geosciences. He is the author of a textbook titled Plasticity Modeling and Computation published by Springer. He serves as editor of two leading journals in his field: Acta Geotechnica published by Springer and the International Journal for Numerical and Analytical Methods in Geomechanics published by Wiley.

Sessions

Monitoring and Measurement of Ground Deformation

Advanced techniques: InSAR, GNSS, LiDAR
Real-time monitoring and smart sensor networks
Integrating remote sensing with in-situ measurements

Mechanisms and Modeling of Subsidence

Hydrogeological and geotechnical processes
Coupled hydro-mechanical and thermo-hydro-mechanical models
Soil behavior in soft ground and aquifer systems
Geological controls on subsidence susceptibility

Geotechnical and Structural Impacts

Building foundation settlement and infrastructure damage
Road collapses, sinkholes, and void detection
Engineering risk assessment of urban subsidence
Ground improvement and soil stabilization technologies

Earth Surface Dynamics and Multi-Hazard Interactions

Landslides, slope instability, and surface deformation
Tectonic activity and earthquake-induced landform change
Climate change effects on groundwater and land deformation
Long-term land surface evolution in deltaic and coastal regions

Impacts, Risk Management, and Adaptation

Socioeconomic and environmental consequences of subsidence
Urban planning and land use in vulnerable areas
Mitigation strategies and adaptation planning
Early warning systems and hazard communication

Policy, Governance, and Public Engagement

Legal frameworks and regulatory responses
Integrated governance of land and water resources
Community involvement and stakeholder coordination
Public awareness, education, and participatory planning

Frontiers and Emerging Topics

Earth surface transition and integrative landscape perspectives
Big data, AI, and digital twin applications in subsidence monitoring
Interdisciplinary and international case studies
Resilient cities and sustainable infrastructure under subsidence risk

Special topic

Global Perspectives on Land Subsidence: Science, Policy, and Practice for the Next Decade

Kuo-En Ching (Professor, Department of Geomatics, National Cheng Kung University, Taiwan)
Cheng-Wei Lin (Associate Research Fellow, Tainan Hydraulics Laboratory, National Cheng Kung University, Taiwan)

Characterization, Monitoring, and Disaster Mitigation for Slope Sliding, Bank Erosion, and Land Settlement

Chih-Chung Chung (Professor, Department of Civil Engineering, National Central University, Taiwan)
Ying-Hsin Wu (Associate Professor, Kyoto University, Japan)

Advancing the Integrated Use of Geodetic Methods for Land Deformation Observations

Ta-Kang Yeh (Professor, Department of Real Estate and Built Environment, National Taipei University, Taiwan)
Kuo-Hsin Tseng (Professor, Center for Space and Remote Sensing Research, National Central University, Taiwan)

Investigation and Disaster Prevention of Ground Subsidence, Surface Deformation, Soil Liquefaction

Feng-Jen Wang (Chairman, National Association of Professional Applied Geologist, Taiwan)
Lung-Chang Wang (Professional Engineer, Geophysical Technology & Engineering Co. Ltd. , Taiwan)

Surface Deformation/Subsidence and Geology

Jiun-Yee Yen (Professor, Department of Natural Resources and Environmental Studies, National Dong Hwa University, Taiwan)

Resilient Groundwater Management under Subsidence and Climate Stress

Hwa-Lung Yu (Professor, Department of Bioenvironmental Systems Engineering, National Taiwan University, Taiwan)
Ping-Yu Chang (Professor, Department of Earth Science, National Central University, Taiwan)
Jui-Pin Tsai (Associate Professor, Department of Bioenvironmental Systems Engineering, National Taiwan University, Taiwan)

Agenda

2026	4/13	4/14	4/15	4/16	4/17
	Mon.	Tue.	Wed.	Thu.	Fri.
Time slot 1	Workshop 1	Opening (Keynote)	Session 4 (Keynote)	Field trip	Field trip
		Break			
Time slot 2	Workshop 2	Session 1	Session 5		
		Lunch			
Time slot 3	Workshop 3	Session 2	Session 6		
		Break			
Time slot 4	Workshop 4	Session 3	Session 7		
		Discussion	Closing		
Dinner	Icebreaker	Gala dinner			

Important date

Abstract submission	Aug. 18 – Oct. 31, 2025
Acceptance letter	Nov. 15, 2025
2 nd announcement (Preliminary program)	Dec. 31, 2025
Early bird (author) registration	Nov. 15, 2025 – Jan. 31, 2026
Normal registration deadline	Feb. 15, 2026
3 rd announcement (Final program)	Mar. 15, 2026

Contact Information

- ✓ TWSUB organizing committee (Graduate Institute of Applied Geology, NCU, TAIWAN): twsub2026@gmail.com
- ✓ International issue: Dr. Duc-Huy Tran
- ✓ Domestic issue: Miss Lin
- ✓ Sponsorship: Miss Huang