



NATIONAL TECHNICAL
UNIVERSITY OF ATHENS



COLUMBIA
ENGINEERING

Joint Workshop on Infrastructure and Energy Sustainability in a Changing Climate

June 24 – June 25, 2025

NTUA Zografou Campus



Scan for location

<https://shorturl.at/ecGax>



Scan for live streaming

DAY 1 - June 24

<https://shorturl.at/xNgSc>



Scan for live streaming

DAY 2 - June 25

<https://shorturl.at/gycFF>



Tuesday, June 24

14:30 – 15:00

Welcome & Opening Remarks

- Representatives from NTUA and Columbia University

15:00 – 16:00

Session 1

Climate Risk and Natural Hazard Mitigation

- CU: “Doing Usable Climate Risk Science in Academia” – *Adam Sobel*
- NTUA: “Sensor and Uncertainty Aware Planning for Natural Hazard Mitigation” – *Dimitrios Vamvatsikos*

16:00 – 16:30 **Coffee Break**

16:30 – 17:30

Session 2

Urban Resilience and Infrastructure Assessment

- CU: “IoT Technologies for Urban Climate Mitigation” – *Ioannis Kymissis*
- NTUA: “Assessment of the Resilience and Sustainability of Infrastructure in a Changing Climate by Non-Destructive Testing” – *Antonia Moropoulou, Kyriakos Lampropoulos*

17:30 – 18:30

Session 3

Climate Adaptation and Decision Support

- CU: “Protecting Humanity from Weather-Related Hazards in a Changing Climate” – *George Deodatis*
- NTUA: “Supporting Decisions for Regional Climate Adaptation” – *Christos Makropoulos*

Wednesday, June 25

09:30 – 10:30

Session 4 – AI and Digital Tools for Sustainability

- CU: “Analytics for Building Decarbonization: Planning and Operations” – *Bianca Howard*
- NTUA: “Trustworthy, Explainable and Robust AI Tools to Mitigate Climate Change Effects” – *Anastasios Doulamis*

10:30 – 11:30

Session 5 – Mobility and Smart Cities

- CU: “Smart Cities Frontiers” – *Andrew Smyth*
- NTUA: “Artificial Intelligence for Connected and Automated Mobility” – *Eleni I. Vlahogianni*

11:30 – 12:30

Session 6

Sustainable Infrastructure and Energy Transitions

- NTUA: “Designing a Sustainable Power Supply System for the 1st Renewable Energy Valley in Europe” – *Vaggelis Marinakis and Ioannis Psarras*
- NTUA: “Advancing Sustainability at the National Technical University of Athens: The Impact of the Institute for Circular Economy and Sustainability” – *Konstantinos Aravossis*

12:30 – 13:30

Session 7

Building Technologies and Digital Design

- NTUA: “Reducing the Carbon Footprint: Strategies for a Sustainable Future” – *Irene Koronaki*
- NTUA: “Smart Aerial Surveillance and Wildfire Suppression” – *Paul Sotiriadis*