



**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://www.youtube.com>



**Scan for live streaming**

**DAY 2 - June 25**

<https://www.youtube.com>



# 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**

16:00 – 16:30

## **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*