



UNIVERSITÀ
DI TORINO

UNITO HUB
ON
SCIENCE
DIPLOMACY

UniTo Winter School 2026

TRANSCALABLE DIGITALIZATION IN A GLOBAL CONTEXT

DIGITAL TWIN—ENABLED MULTISCALE INTEGRATION FOR
CLIMATE-NEUTRAL URBAN, BUILDING, AND DATACENTER ECOSYSTEMS

University
of Turin

15-18 December 2026

An intensive four-day learning experience exploring how Digital Twins, IoT, Artificial Intelligence and interoperable data infrastructures can connect cities, buildings and datacentres into a single intelligent ecosystem

**REGISTER
NOW**

Link:

<https://forms.gle/SuvV4NZF5vVBgTDE6>

VENUE

Aula Magna – Rectorate
University of Turin
Via Verdi, 8 – Turin



Programme

Tuesday, 15 December 2026

09:00–09:30 Welcome Coffee & Registration

09:30–10:00 Institutional Welcome

10:00–13:00 Module 1 – Macro context, Scientific Diplomacy, Urban policy · SDGs · climate–neutrality · Sustainable Mobility

13:00–14:00 Lunch

14:00–17:00 Module 2 – Identification of Use Cases: Energy Systems and Built Environment

17:00–18:00 Guided walking tour of Turin city centre with ESN Torino

Wednesday, 16 December 2026

09:00–09:30 Welcome Coffee

09:30–12:30 Module 3 – Lifecycle & operations: Building management · Digital building logbook

12:30–13:30 Lunch

13:30–16:30 Module 4 – Digital Twin Layer: Urban · building · GIS · BIM · BMS · IoT



Thursday, 17 December 2026

09:00–09:30 Welcome Coffee

09:30–12:30 Module 5 – Multiscale data architecture:
HPC/Cloud · Edge · datacenter loads · datacenter twins ·
ontology

12:30–13:30 Lunch

13:30–16:30 Module 6 – Analytics, AI & optimization: Predictive
models · scenario simulation · digital KPIs

20:00 Networking Dinner

Friday, 18 December 2026

09:00–09:30 Welcome Coffee

09:30–12:30 Module 7 – Decision-support systems:
Dashboards · alerts · reports · triggers

12:30–13:30 Lunch

13:30–16:30 Module 8 – Governance & implementation: Ethics
· security · interoperability · UNITA replication

16:30–17:00 Closing Remarks & Certificates