

As part of the Building Simulation Applications conference (<https://bsa.events.unibz.it/>), the Free University of Bolzano is pleased to invite you to the

“5th Student School on Building Performance Simulation Applications”

24.06.2026

Free University of Bolzano, Faculty of Engineering, NOI Techpark - via Bruno Buozzi, 1, Bolzano

URBAN BUILDING ENERGY MODELLING AND SIMULATION OF SMART DISTRICTS

(Faculty of Engineering, NOI Techpark - via Bruno Buozzi, 1, Bolzano, Classroom **B1.1.12**)

Morning session

09:00-09:30

Welcome and Introduction

Prof. Giovanni Pernigotto, *Free University of Bozen-Bolzano*
Prof. Iliaria Ballarini, *Polytechnic University of Torino*

09:30-10:15

Deep Learning Methods for Fast and Differentiable Simulation of District Heating Networks

Dr. Roberto Boghetti, *IDIAP*

10:30-11:15

Towards Climate-Resilient District Heating and Cooling Systems: Dynamic Simulation of Future Scenarios

Dr. Vittoria Benedetti and Prof. Alessandro Prada, *University of Trento*

11:15-12:00

The Role of Simulation in the Design of Zero-Energy Buildings and Urban Systems

Dr. Cesare Forzano and Prof. Annamaria Buonomano, *University of Naples Federico II*

Afternoon session

14:00-14:45

The Archetype Approach to Urban Building Energy Modelling

Prof. Francesco Causone, *Polytechnic University of Milan*

14:45-15:30

Analysis of Building Energy Retrofit Scenarios and Urban Microclimates with Urban Energy Models

Dr. Jacopo Vivian and Prof. Angelo Zarrella, *University of Padova*

15:30-16:30

Round Table on Future Trends and Current Challenges on Urban Simulation

The school is open to graduate and PhD students and is included in the registration fee for the conference Building Simulation Applications BSA 2026.