

**Event**

# HEAT MODELLING AND ENVIRONMENTAL PERFORMANCE-DRIVEN APPROACH TO BUILDING DESIGN IN URBAN AREAS

Master Degree Course: ICT in building design

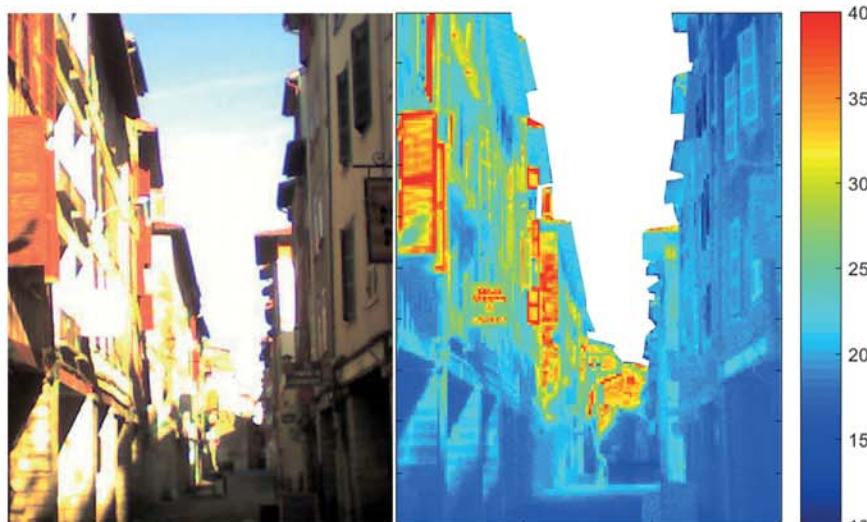


Image courtesy of prof. Benoit Beckers, Urban Physics Joint Laboratory

The amount of population living in cities is quickly growing and is expected to reach the 70% of the total population on our Planet in future years. For this reason, it is essential to study and develop specific models and processes to correctly analyse and further define design strategies devoted for urban spaces in order to guarantee the quality (environmental, technological, ...) of these spaces. The invited lecture of prof. Benoit Beckers, internationally recognised expert in heat energy modelling at urban scale, will introduce the results of his researches, while G. Chiesa will discuss a simplified model able to analyse, in early design phases, the environmental and technological distribution of environmental space units in a built environment

16:00 | Introduction – dr. Giacomo Chiesa, Politecnico di Torino, DAD

16:10 | Natural Light and Heat Modelling for complex urban Geometries – prof. Benoit Beckers, Urban Physics Joint Laboratory, Université de Pau et des Pays de l'Adour, France

17:50 | Break

18:00 | Site-climate design approach to building space unit distribution – dr. Giacomo Chiesa, Politecnico di Torino, DAD

18:50 | Conclusions – professor Mario Grosso, Politecnico di Torino, DAD

**lunedì 20 Novembre 2017**  
**ore 16:00 - Sala dello Zodiaco**  
**Castello del Valentino**

**viale Pier Andrea Mattioli, 39 - 10125 Torino**

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**Heat modelling and environmental performance-driven  
approach to building design in urban areas**

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