



## Internal seminar

The role of ICT tools for urban design

MARCH

9

## International Research Seminar

Walk-scape: Ongoing research on Augmented Reality solutions for the built environment

MARCH

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## Workshop with students

Walk-shop: Discovering and representing the sensory dimension of urban space

MARCH

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### INVITED SPEAKERS

**Myriam Servières**

**Valerio Signorelli**

**Vincent Turre**

Ecole Centrale de Nantes

(ECN)

*Centre de Recherche Nantais*

*Architectures Urbanités*

*(CRENAU)*

**Paul Haynes**

Department of Landscape

The University of Sheffield

**Luciano Baresi**

**Chiara Calabrese**

POLIMI (DEIB)

*S-Cube*

**Vincenzo Caglioti**

POLIMI (DEIB)

**Monica Bordegoni**

POLIMI (Mechanical Eng.)

**Rossella Salerno**

**Eugenio Morello**

**Barbara Piga**

POLIMI (DASU)

*Lab. di Simulazione Urbana*

*Fausto Curti*

**Tiziana Toniatti**

Fondazione Politecnico

**Carlo Giovannella**

Consorzio Roma Ricerche

(CRR)

Università Tor Vergata

**Asmund Izaki**

Woods Bagot

**Adam Hede**

**Thomas Michel**

Kanda

**Giulio Podestà**

BetaNit

**Francesco Secchi**

**Luca Iovino**

photography

Observation is a crucial step for developing urban design proposals. In fact, the visual component is often the sense that drives the design process. How to improve a conscious multi-sensory understanding of urban places? How to catch, interpret and communicate other sensory aspects beyond the visual one? How to depict and simulate present and future scenarios in a multi-sensory way? **Which is the possible role of ICT tools and techniques in supporting a comprehensive and complex design process?**

**Monday 9.03.2015 | 9:30 - 17:30**

### internal research seminar

*Morning 9:30 - 13:00 | labsimurb | Building 12 'Sottomarino', via Bonardi 3*

*Afternoon 14:30 - 17:30 | Educafé | Building 2, piazza Leonardo da Vinci 32*

**9:30 - 17:30** Internal seminar on urban simulation and ICT tools for supporting urban design, people engagement and collaborative creative processes. Future research agenda and possible research collaborations will be discussed.

**Tuesday 10.03.2015 | 9:30 - 17:30**

### open research seminar

*Educafé | Building 2, piazza Leonardo da Vinci 32*

**9:30 - 13:00** Presentation and discussion of ongoing research projects on ICT tools and Augmented Reality for studying and interacting with public spaces. Each researcher will introduce his/her recent achievements and future research directions.

**14:30 17:30** Working session on testing available tools and research products. Open discussion and brainstorming will follow.

**Wednesday 11.03.2015, 9:30 - 17:30**

### workshop with students

*labsimurb | Building 12, via Bonardi 3*

**9:15 - 10:15** | Workshop presentation

**10:15 - 12:15** | On-site survey

**12:15 - 13:15** | Work session

**14:15 - 15:15** | Work session

**15:15 - 16:15** | Presentation and comments

### Scientific Committee

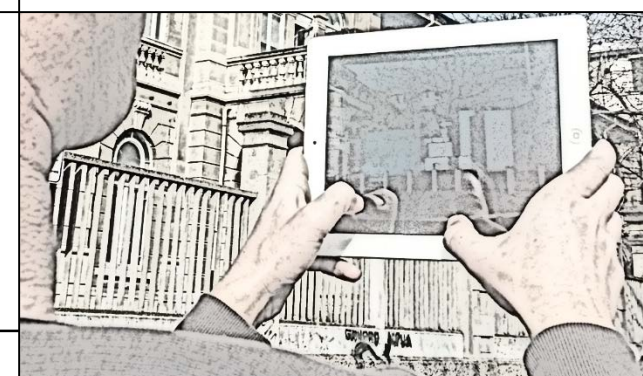
Barbara E.A. Piga

Eugenio Morello

Rossella Salerno

Laboratorio di Simulazione Urbana Fausto Curti

[www.labsimurb.polimi.it](http://www.labsimurb.polimi.it) | [labsimurb@polimi.it](mailto:labsimurb@polimi.it)



10 - 11 March 2015 | Free entrance

**REGISTRATION REQUIRED**

please contact

Mattia Rudini, Laura Cibien:

[labsimurb@polimi.it](mailto:labsimurb@polimi.it)

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@ Labsimurb

**09:30***WS kick-off and welcoming***09:45**Short presentation of the ICT-19-2015 proposal  
(Eugenio Morello, Barbara E.A. Piga)**10:00****Work Session 1** (Chair: Barbara Piga)

Discussing The ICT tool – the core innovation

- Presentation of the ICT tool: the main idea and possible applications (10 minutes)

Discussion:

- What is the ground-breaking innovation we propose?

- Are there any close duplications?

- How will this innovation improve the business for creative industries?

- What will be its impact on society?

**13:15***Lunch*

@ Educafe

**14:30****Work Session 2** (Chair: Eugenio Morello)

Defining the Working packages and timeline

Work Packages presentation (maximum 10 minutes for each package)

Discussion on each WP

- Who wants to collaborate to each task?

- Do we agree on deliverables?

- Do we agree on the timeline and the crossing to other WPs?

- Do we cover all the required skills to accomplish the project?

*Coffee break***16:30****16:45****Work Session 3** (Chair: Barbara E.A. Piga)

Informal session - Reading through the draft proposal

- Questions, doubts, identifying weaknesses

- Final suggestions on the draft text

**17:30***Closing of the day***Scientific Committee**

Barbara E.A. Piga

Eugenio Morello

Rossella Salerno

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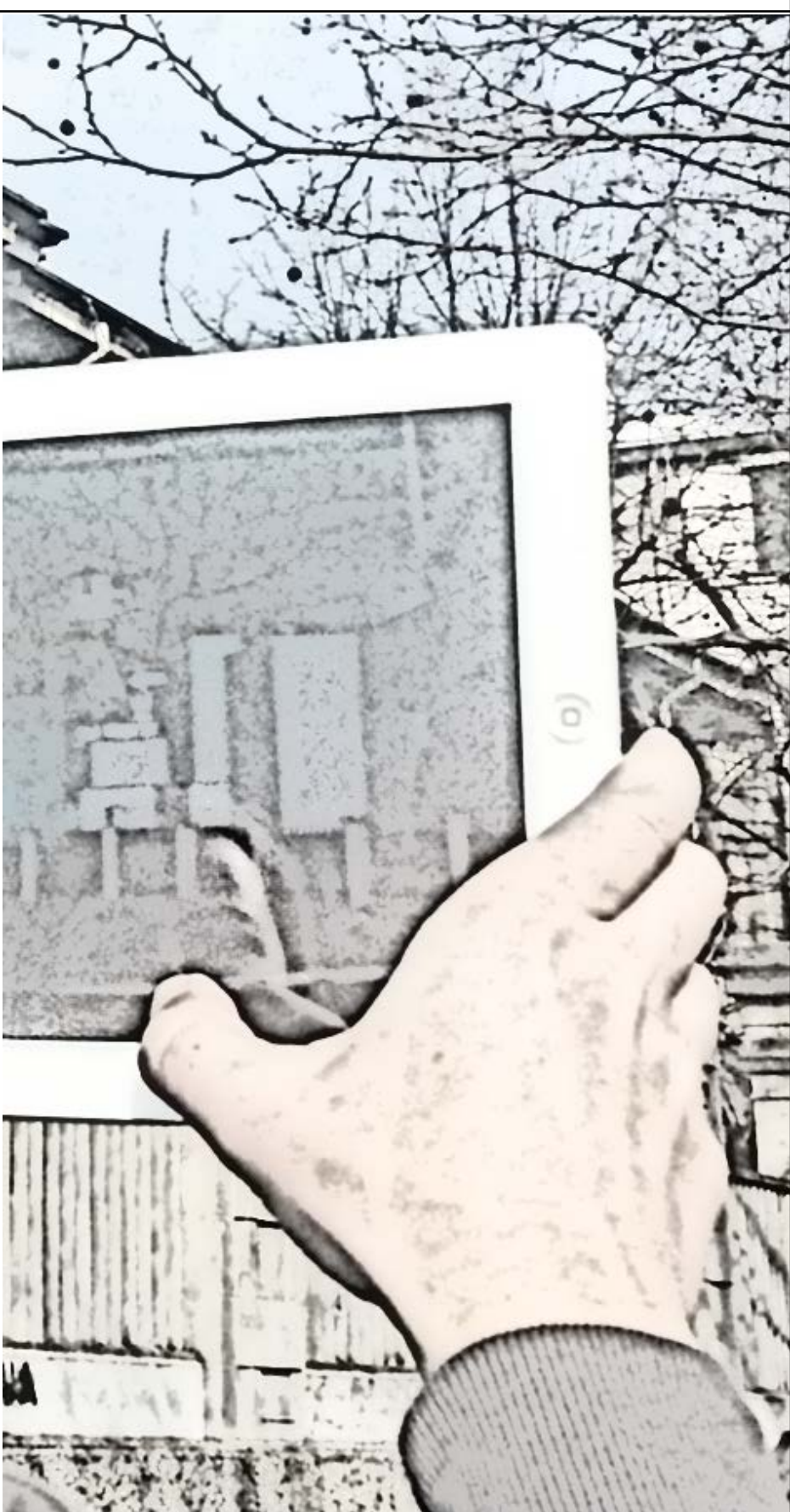
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**Tuesday 10.03.2015 | 9:30 - 17:30****open research seminar***Educafè | Building 2, piazza Leonardo da Vinci 32*

09:30 - 09:45	<b>Rossella Salerno</b> Introduction
09:45 - 10:00	<b>Adam Hede (Kanda)</b> Kanda: Experience with and Expectation to AR from Creative Industries
10:00 - 10:15	<b>Carlo Giovannella (CRR)</b> The 'Consorzio Roma Ricerche'
10:15 - 10:30	<b>Vincent Turre (ECN)</b> Modeling and visualisation of urban data
10:30 - 10:45	<b>Myriam Servières (ECN)</b> Mobile tools, Ambiance and urban design: Link between numeric images and urban information system
10:45 - 11:00	<b>Paul Haynes (University of Sheffield)</b> Augmented Reality for Flood Visualisation
11:00 - 11:15	_____ <b>Break</b> _____
11:15 - 11:30	<b>Luciano Baresi (DEIB)</b> A Comprehensive Framework for the Development of Complex Smart Spaces
11:30 - 11:45	<b>Chiara Calabrese (DEIB)</b> Outdoor Augmented Reality and design project visualization: an introductory study
11:45 - 12:00	<b>Thomas Michel (Kanda)</b> Unruined history: the path to an AR/VR tourist app
12:00 - 12:15	<b>Asmund Izaki (Woods Bagot)</b> Coding design frameworks in practice
12:15 - 12:30	<b>Valerio Signorelli (ECN)</b> Representing and sharing the sensory form of urban spaces through Game Engine technologies
12:30 - 12:45	<b>Eugenio Morello, Barbara Piga (DAStU)</b> Urban simulation in open areas: tools affecting design thinking
12:45 - 13:00	<b>Questions and comments</b>
13:00 - 14:30	_____ <b>Lunch break</b> _____
14:30 - 14:45	<b>Monica Bordegoni (Mechanical Eng.)</b> Multisensory experience of virtual objects
14:45 - 15:00	<b>Giulio Podestà (BetNit)</b> BetaNit, optical device design+manufacturing: digital projections, artificial skies, solar simulators
15:00 - 15:15	<b>Vincenzo Caglioti (DEIB)</b> Panoramic cameras
15:15 - 15:30	<b>Round Table</b>
15:30 - 15:45	_____ <b>Break</b> _____
15:45 - 17:00	Working session on testing available tools and research products. Open discussion and brainstorming will follow
17:00 - 17:30	<b>Round Table and closing of the day</b>

**Scientific Committee**Barbara E.A. Piga  
Eugenio Morello  
Rossella Salerno

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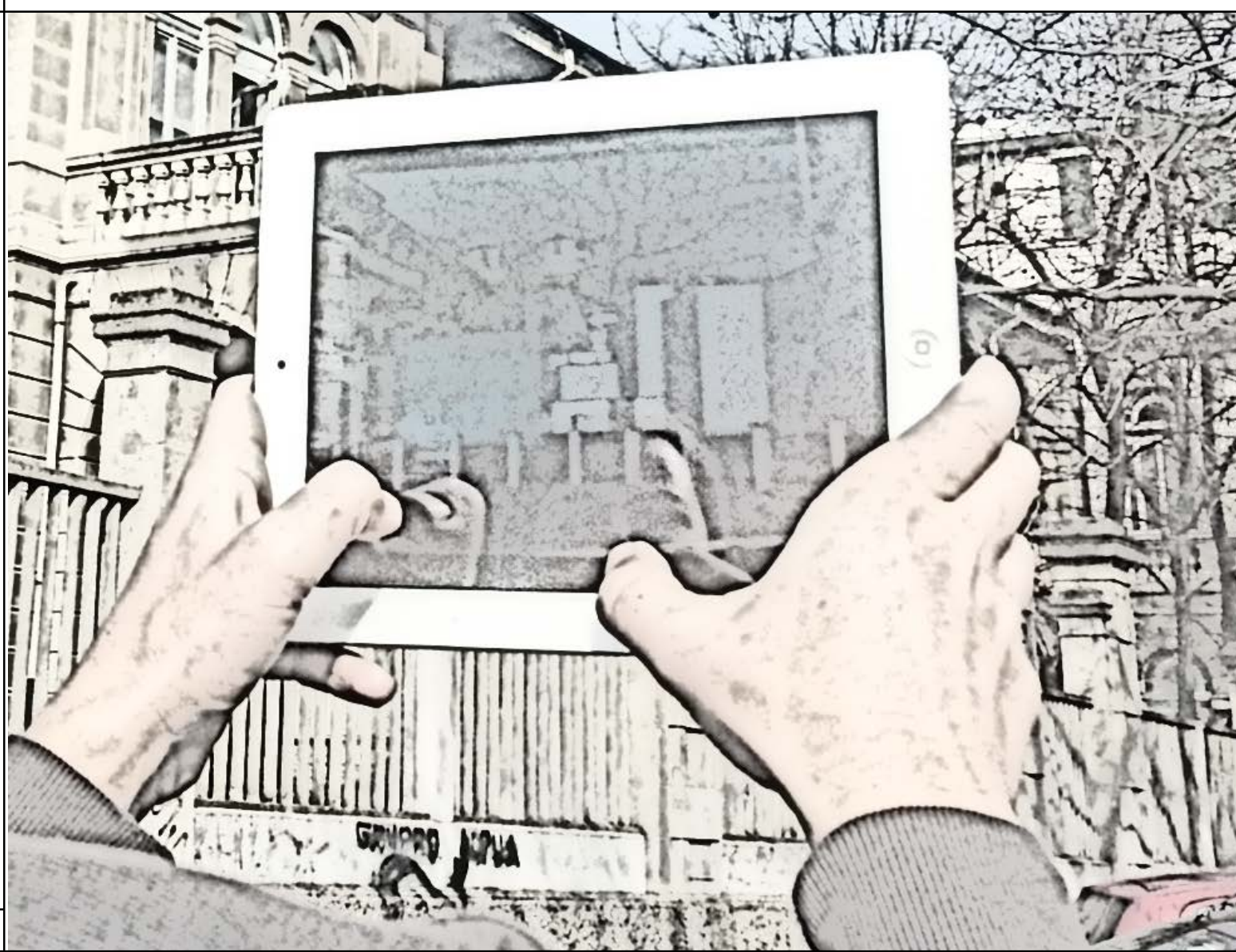
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photography

**Wednesday 11.03.2015, 9:30 – 17:30****workshop with students***Educafé | Building 2, piazza Leonardo da Vinci 32***09:15 – 09:30** *Introduction to the class* (R. Salerno, B. Piga)**09:30 – 10:30** Workshop presentation**10:15 – 12:15** On-site survey**12:15 – 13:15** Work session**14:15 – 15:15** Work session**15:15 – 16:15** Presentation and comments**Scientific Committee**

Barbara E.A. Piga

Eugenio Morello

Rossella Salerno