

CARLO RATTI

CURRICULUM VITAE

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A practicing architect, Carlo Ratti teaches at the *Massachusetts Institute of Technology*, where he directs the *Senseable City Lab*. He graduated in engineering from the *Politecnico di Torino* and the *École Nationale des Ponts et Chaussées* in Paris, and later earned his MPhil and PhD in architecture at the *University of Cambridge*, UK. Carlo holds several patents and has co-authored over 250 publications. As well as being a regular contributor to the architecture magazine *Domus* and the Italian newspaper *Il Sole 24 Ore*, he has written for the *BBC*, *La Stampa*, *Scientific American* and *The New York Times*. His work has been exhibited worldwide at venues such as the *Venice Biennale*, the *Design Museum* in Barcelona, the *Science Museum* in London, *GAFTA* in San Francisco and the *Museum of Modern Art* in New York. Carlo has been featured in *Esquire* magazine's '2008 Best & Brightest' list and in *Thames & Hudson's* selection of '60 innovators' shaping our creative future. In 2010, *Blueprint* magazine included him as one of the '25 People Who Will Change the World of Design', *Forbes* listed him as one of the 'Names You Need To Know' in 2011 and *Fast Company* named him as one of the '50 Most Influential Designers in America'. He was also featured in *Wired* magazine's 'Smart List 2012: 50 people who will change the world'. His 'Digital Water Pavilion' at the 2008 *World Expo* was hailed by *TIME* magazine as one of the 'Best Inventions of the Year'. In 2011, Carlo was awarded the *Renzo Piano Foundation* prize for 'New Talents in Architecture'. Carlo has been a presenter at *TED* (2011), program director at the *Strelka Institute for Media, Architecture and Design* in Moscow, curator of the '2012 *BMW Guggenheim Pavilion*' in Berlin, and was named 'Inaugural Innovator in Residence' by the Queensland Government. The Italian Minister of Culture also named Carlo as a member of the Italian Design Council - an advisory board to the Italian Government that includes 25 leaders of design in Italy. He is currently serving as a member of the *World Economic Forum* 'Global Agenda Council for Urban Management' and is a curator for the 'Future Food District' pavilion for 2015 *World Expo* in Milan.

For further information on Carlo's projects, please visit www.carloratti.com and senseable.mit.edu



Full Name: Carlo Filippo Ratti

Date of Birth: 7 January 1971

Citizenship Status: Italian citizen & UK resident

Languages: Italian: native; English & French: fluent, written and spoken; Spanish & German: basic knowledge

Field of Interest: Architecture, Urban Planning, Urban Design, Ambient Intelligence, Smart Cities, Senseable Cities

Contact: ratti@mit.edu

01 EDUCATION

Fulbright Senior Scholar

Tangible Media Group, MIT Media Lab
(Cambridge MA, 2001-2002)

PhD in Architecture (Thesis Title: “Urban Analysis for Environmental Prediction”)

The Martin Centre, University of Cambridge
(Cambridge UK, 1998-2001)

MPhil in Environmental Design in Architecture

University of Cambridge
(Cambridge UK, 1995-1996)

MSc Degree (Laurea 110/110 cum laude and dignità di stampa) in Civil Engineering

Politecnico di Torino
(Turin, 1989-1995)

MSc Degree (Diplôme d'ingénieur) in Civil Engineering

Ecole Nationale des Ponts et Chaussées
(Paris, 1989-1995)

High school degree with science concentration (grade 60/60)

Liceo Segrè
(Turin, 1988-1989)

02 POSITIONS

HISTORY OF APPOINTMENTS

Associate Professor of the Practice

MIT SENSEable City Laboratory
(Cambridge MA, 2007 - present)

Partner

Carlo Ratti Associati (architecture and design practice)
(Turin, 2002 - present)

Singapore Research Professor

SMART Research Program / MIT Department of Urban
Studies and Planning
(Singapore, 2013 - present)

Co-Founder and Consultant

Superpedestrian (urban mobility start-up)
(Cambridge MA, 2013 - present)

Adjunct Associate Professor

National University of Singapore
(Singapore, 2013 - present)

Director

Italy Program, MIT International Science and Technology
Initiatives (MISTI)
(Cambridge MA, 2009 - present)

Advisor

United Nations Interregional Crime and Justice Research
Institute (UNICRI)
(Turin, 2010 - 2011)

Innovator in Residence

Queensland Government Minister of Education and the
Arts
(Brisbane, 2008)

Adjunct Professor

Science and Engineering Faculty, Queensland University
of Technology
(Brisbane, 2007)

Lecturer

Graduate School of Design, Harvard University
(Cambridge MA, 2004)

Research Scientist and Director

MIT SENSEable City Laboratory
(Cambridge MA, 2003 - 2007)

Visiting Professor (Einsegnant)

Ecole Nationale des Ponts et Chaussées and the Ecole
d'Architecture de Marne-la-Vallée
(Paris, 2001 - 2005)

Fulbright Senior Scholar

MIT Media Lab & MIT School of Architecture and Planning
(2001 - 2002)

Research Assistant

The Martin Centre, University of Cambridge
(Cambridge, UK, 1998 - 2001)

Adjunct Professor (Professore a contratto)

Politecnico di Torino, Faculty of Architecture
(Turin, 1997 - 1998)

Project Architect and Engineer

Principia (engineering and architectural design firm),
(Turin, 1997)

Research Assistant

The Martin Centre, University of Cambridge
(Cambridge, 1996 - 1997)

Consultant

Cambridge Architectural Research Limited (environmental
design consultancy on the Saline Ostia Antica project),
(Cambridge, 1996)

Teaching Assistant

Faculty of Architecture, Politecnico di Torino
(Turin, 1994 - 1995)

Project Architect

Giovanni Bo (engineering and architectural design
practice)
(Asti - Italy, Summer 1993 and 1994)

PROFESSIONAL REGISTRATION

Italian Institute of Chartered Engineers
Registration number 7889Y

Architects Registration Board ARB, United Kingdom
Registration number 062794A

Ingénieur de l'Ecole des Ponts et Chaussées, France
Government decree 19 January 1996

COMMITTEE POSITIONS AND OTHER ASSIGNED DUTIES

Lead PI
MIT - TU Delft AMS Initiative
(2013 - present)

PI in Residence
MIT Singapore - SMART
(2013 - present)

Member of Selection Committee
Bloomberg Philanthropies' 2013-2014 Mayors Challenge
(2013 - present)

Member of Advisory Board
Smart City World Congress, Barcelona, France
(2013 - present)

Member of Advisory Board
Fabrica, Treviso, Italy
(2013 - present)

Member of International Science and Technology Advisory Board
ALSTOM, Levallois-Perret, France
(2013 - present)

Guest Co-Editor, Smart City Special Issue
IEEE Communications Magazine
(2013)

Member of Scientific Committee
5plus City Forum, Issy-les-Moulineaux, France
(2013)

Member of Scientific Committee
13th CUPUM Conference, Utrecht, Netherlands
(2013)

Member of Scientific Committee
NetMob conference on the analysis of mobile phone networks and datasets, Cambridge MA, USA
(2013)

Member of Jury

FT Citi Awards, London, UK
(2012 and 2013)

Member of Advisory Board

World Smart Capital, Amsterdam, Netherlands
(2012)

Guest Co-Editor, Smart Applications for Smart Cities

JTAECR Journal
(2012)

Jury Member

Kernel Festival, Monza, Italy
(2012)

Member of Curatorial Advisory Committee

Museum of Design, Innovation, Leadership and Art (MoDILA), Cape Town, South Africa
(2012)

Member of Advisory Board

International Places & Spaces: Mapping Science Exhibition
(2012 - present)

Member of Editorial Board

Computers, Environment and Urban Systems (CEUS), Philadelphia PA, USA
(2011)

Member of Scientific Advisory Board

Information and Decisions in Social Networks Workshop, MIT Laboratory for Information and Decision Systems, Cambridge MA, USA
(May - June 2011)

Member of Scientific Advisory Board

Joint Programming Initiative (JPI) Urban Europe, Brussels, Belgium
(2011 - present)

Member of Research Committee

MIT Department of Urban Studies and Planning
(2011)

Member of Scientific Committee

Revue Internationale de Géomatique
(2011)

Member of Advisory Group

Climate Group's SMART 2020 Initiative
(2011)

Workshop Participant on Personalization in Mobile Applications

ACM RecSys 2011, Chicago IL, USA
(2011)

Member of Scientific Committee

8th International Symposium on Location Based Services, TU Vienna, Austria
(21–23 November 2011)

President of Jury

Biennale of Cartography, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland
(2011)

Member of PhD Committee

University IUAV of Venice, Venice, Italy
(2011)

Advisor

United Nations Interregional Crime and Justice Research Institute (UNICRI), Turin, Italy
(2010 - 2011)

Member of Advisory Board

National Building Museum, Washington DC, USA
(2010)

Member of Scientific Committee

NetMob Conference, Cambridge MA, USA
(2010)

Member of Scientific Committee

Globus et Locus, Milan, Italy
(2010)

POSITIONS: **CARLO RATTI**

Director

MIT Italy Program, MIT International Science and Technology Initiatives (MISTI)
(2009 - present)

Member of Advisory Committee

Global Agenda Councils, World Economic Forum
(2009 - present)

Member of Advisory Committee

Mayor Menino of Boston's Complete Streets, Boston MA, USA
(2009 - present)

Delegate

World Economic Forum, Davos, Switzerland
(2009, 2010, 2012)

Delegate

World Economic Forum, Tianjin, China
(2008)

Invited Participant

Geodesign, Turin, Italy
(2008)

Participant

'Transforming the Mid-Polis' Exhibition, Roger Williams University Gallery, RWU, Bristol RI, USA
(2008)

Member of Advisory Committee

The Italian Design Council, Minister of Culture, Rome, Italy
(2007)

Full Member (Socio Ordinario)

The Aspen Institute Italia, Rome, Italy
(2006 - present)

Co-Founder and President

Comitato Valdo Fusi, Turin, Italy
(2005 - 2009)

Member of the Admissions Committee

City Design and Development (CDD), MIT Department of Urban Studies and Planning
(2005 - present; various years)

Junior Fellow

The Aspen Institute Italia program for the New Leadership, Rome, Italy
(1999 - 2006)

Journal Referee

Environment and Planning B - Planning and Design
(1999)

Co-Founder

The Progetto Collegium
(1997 - 2004)

03 DISTINCTIONS

Premio Internazionale Selinunte per l'architettura

Prize for excellence: Carlo Ratti Associati
(2013)

Living Labs Global Award

Finalist: The Copenhagen Wheel
(2012)

Living Labs Global Award

Finalist: EyeStop project
(2012)

Katerva Awards - Materials & Resources Category

Finalist: Forage Tracking project
(2012)

Wired magazine's Smart List

Named in '50 people who will change the world'
(2012)

ENTER 2012

Ranked among the top 10 submissions: Yoshimura, Y. et al 'New Tools for Studying Visitor Behaviors in Museums: A Case Study at the Louvre', Information and Communication Technologies in Tourism (Mörlénback: Springer Wien NewYork) 391-402
(2012)

Renzo Piano Foundation

Selected to design the extension of a school in Cavezzo: Carlo Ratti Associati
(2012)

Renzo Piano Foundation

Awarded with the prize for 'New Talents in Architecture': Carlo Ratti Associati
(2011)

Green Dot Award - Transport

Winner: The Copenhagen Wheel
(2011)

International Science and Engineering Visualization Challenge of the National Science Foundation

Winner: Trash Track project
(2011)

TED

Invited Speaker: Carlo Ratti on 'Architecture that Senses and Responds'
(2011)

Fast Company

Named one of the 22 Best Infographics: Connected States of America project
(2011)

Fast Company

Named one of America's 50 Most Influential Designers
(2011)

Edison Awards

Winner (Transport): The Copenhagen Wheel
(2011)

KeinTruc Magazine's Article dedicated to Italy

Special mention: Digital Water Pavilion
(2011)

King Abdullah City for Atomic and Renewable Energy (KA CARE)

Special recognition of the innovative ideas: Preliminary Concept Design of the Masterplan for KA CARE
(2010)

World Technology Summit and Awards Nomination

Winner: The Copenhagen Wheel
(2010)

U.S. Dyson Design Award (2010)

The Copenhagen Wheel
Winner: The Copenhagen Wheel

The Grand Challenge Stories Award of the US National Academy of Engineers

Winner: The Copenhagen Wheel
(2010)

International Bike Expo Award

Winner: The Copenhagen Wheel
(2010)

Grand Prize of the Brand New Awards at the World Bike Expo Munich

Winner: *The Copenhagen Wheel*
(2010)

Thames & Hudson 60th anniversary publication

Named one of 60 global innovators
(2010)

Prince's Charities and The Earth Awards

Shortlisted: *The Copenhagen Wheel*
(2010)

City Search

Named Best of Seattle: *Trash Track project*
(2009)

European Design Awards

Bronze Prize: *Digital Water Pavilion*
(2009)

3rd IEEE International Conference on Digital Ecosystems and Technologies

Best Paper: Nabian, N. et al 'MIT GEOblog: A Platform for Digital Annotation of Space for Collective Community Based Digital Story Telling', *Proceedings of the 3rd IEEE International Conference on Digital Ecosystems and Technologies (Piscataway, N.J.: IEEE) 353-358*
(2009)

GEOWS

Best Paper: Resch, B. et al 'Real-Time Geo-Awareness - Embedded Sensing for Standardised Urban Environmental Monitoring', *Proceedings of the IEEE International Conference on Advanced Geographic Information Systems & Web Services (Cancun, Mexico: GEOWS2009) 92-97*
(2009)

TIME magazine

Best Invention of the Year: *Digital Water Pavilion*
(2008)

Queensland Minister of Education and the Arts

Innovator in Residence
(2008)

Esquire magazine

Named one of 'Best & Brightest'
(2008)

Marquis Who's Who

Who's Who in America
(2005 - present)

Michael Breheny Prize in Environment & Planning B

Best Paper: Paper by Ratti, C. et al 'Raster Analysis of Urban Form', *Environment and Planning B: Planning and Design, 31(2) 297-309*
(2004)

City of Jurmala, Latvia

Second prize in *Cultural Center Redesign Competition*
(2004)

I.D. Magazine Interactive Media Competition

Bronze prize: *SandScape project*
(2003)

Fulbright Commission

Senior Scholarship at MIT
(2001 - 2002)

European architectural competition 'Designing Crafts Europe'

Selected: *Vertebra project*
(1999)

The Italian Research Council (CNR)

Grant for overseas postgraduate research
(1999)

Allen Meek and Reed Scholarship at Cambridge University

Scholarship for postgraduate studies
(1998)

Cambridge University Department of Architecture

Research scholarship
(1998 - 2000)

Competition 'Solar Building', organized by the European Union

First National Prize (UK and Ireland) for new market center
(1997)

Turin Industrial Union

'Optime' prize for annual top graduate
(1996)

Politecnico di Torino

National scholarship for postgraduate studies
(1995 - 1996)

The Ecole des Ponts et Chaussées

Erasmus scholarship for graduate studies
(1992 - 1993)

04 PATENTS

PUBLISHED PATENTS

3-d luminous pixel arrays, 3-d luminous pixel array control systems and methods of controlling 3-d luminous pixel arrays

Inventors: Carlo Ratti

(US Patent, Non-Provisional, Patent No.: WO2013002778 A1; published January 2013)

3-d luminous pixel arrays, 3-d luminous pixel array control systems and methods of controlling 3-d luminous pixel arrays

Inventors: Carlo Ratti

(US Patent, Non-Provisional, Patent No.: US2013002855 A1; published January 2013)

Solar Canopy Systems and Methods

Inventors: Carlo Ratti, James Francis Vanzo

(European Patent, Non-Provisional, Application Nr.: PCTUS2012039162, Publication Nr.: WO2012162400; filed 11 January 2013)

Magnetic Lazy-Susan and Furniture Comprising The Same

Inventors: Carlo Ratti

(European Patent, Non-Provisional, Application Nr.: PCTEP2013050524, Publication Nr.: WO 2013/104778; filed 11 January 2013)

Gruppo Erogatore di Acqua per Sanitari Interattivo

Inventors: Carlo Ratti and Matteo Lai

(European Patent, Non-Provisional, Publication Nr.: TO2012A001044, Application No.: TO2012A001044; filed 5 December 2012)

System for determining CO2 emissions

Inventors: Carlo Filippo Ratti, Kristian Kloeckl, Vincenzo Manzoni, Andrea Corti

(US Patent, Non-Provisional, Application number: 13/343,063; Publication Number: US 2012/0172017 A1; filed 1 April 2012)

Solar canopy systems and methods

Inventors: Carlo Ratti, James Francis Vanzo

(US Patent, Non-Provisional, Patent Number: US2012298180 A1, published November 2011)

Aqua-robotic pollutant removing systems and devices, and methods of removing pollutants from bodies of water

Inventors: Carlo Ratti, Assaf Biderman

(US Patent, Non-Provisional, Patent No.: WO2011069136 A2; WO2011069136 A3; published June 2011)

Hybrid sensor-enabled electric wheel and associated systems, multi-hub wheel spoking systems and methods of manufacturing and installing wheel spokes

Inventors: Carlo Ratti, Assaf Biderman, Christine Outram

(US Patent, M.I.T. ID: 14061, Non-Provisional, USPTO - United States Patent and Trademark Office PCT/US10/58999; filed 22 February 2011)

Programmable window: a device for controlling the opacity of small-scale areas within a large-scale transparent membrane

Inventors: Carlo Ratti, Assaf Biderman, Martin Ramos

(US Patent, M.I.T. ID: 11313, Non-Provisional, Application Number: 8072676; filed October 2005)

Programmable window: a large-scale transparent electronic display

Inventors: Martin Ramos, Assaf Biderman, Carlo Ratti

(US Patent, M.I.T. ID: 11313, Provisional and Non-Provisional; filed 10 August 2004. USPTO – United States Patent and Trademark Office; filed October 2005)

A three-dimensional tangible interface for interacting with spatial-temporal data using infrared light sources and infrared detectors

Inventors: Yao Wang, Assaf Biderman, Carlo Ratti, Ben Piper, Hiroshii Ishii

(US Patent, Docket No. D-21, M.I.T. ID: 10274T, Non-Provisional, Application No.: 60/463,357; filed 17 April 2003)

A three-dimensional tangible interface for interacting with spatial-temporal data using a laser scanner

Inventors: Ben Piper, Carlo Ratti, Hiroshii Ishii

(US Patent, Docket No. D-20, M.I.T. ID: 9771T, Non-Provisional, Application No. 60/463,273; filed 16 April 2003)

Methods and apparatus for visualizing volumetric data by projecting an image representing data at a surface-volume intersection onto a deformable physical object that defines the geometry of the surface

Inventors: Carlo Ratti, Ben Piper, Yao Wang, Hiroshii Ishii
(US Patent, M.I.T. ID: 10275T, Non-Provisional, Application No. 60/463,273, filed 16 April 2003; and Provisional Application No. 60/463,357; filed 17 April 2003)

PATENT APPLICATIONS PENDING

Interactive Robotic Station for Cocktail Preparation and Dispensing

Inventors: Carlo Ratti
(European Patent, Provisional, Application Nr.: 13162973.5; filed 9 April 2013)

Interactive Piece Of Furniture

Inventors: Carlo Ratti
(European Patent, Provisional, Application Nr.: 13162811.7; filed 8 April 2013)

Interactive Mirror Device

Inventors: Carlo Ratti
(European Patent, Provisional, Application No.: 13162809.1; filed 8 April 2013)

Hinges System Allowing The Rotation for Convertible Furniture

Inventors: Carlo Ratti
(European Patent, Provisional, Application No.: 13162807.5; filed 8 April 2013)

Vertical Plotter

Inventors: Carlo Ratti
(European Patent, Provisional, Application No.: 13162804.2; filed on 8 April 2013)

Unita' da Arredamento Riconfigurabile con Telaio Pieghevole Avente una Configurazione con una Seduta

Inventors: Carlo Ratti
(European Patent, Provisional, Application No.: TO2013U000059, Status: Pending; filed 8 April 2013)

05 PROJECTS

MIT PROJECTS

SkyCall

A project to reimagine UAV technology to help us navigate challenging situations and complex environments (Cambridge MA, 2013)

Road Frustration Index

A project that investigate the emotive aspects of driving (Cambridge MA, 2013)

Makr Shakr

A robotic system, able to prepare approximately one googol (equal to 10 power 100) drink combinations based on crowd input, presented at Google I/O (Milan & San Francisco CA, 2013)

Local Warming

A project looking at dynamically controlling localized heating: a system that puts the heating where people are (Cambridge MA, 2013)

Signature of Humanity

A project aimed at exploring the spatio-temporal voice, SMS and data traffic in major cities from various continents (Cambridge MA, 2013)

Boston 3-1-1 Incident Reports

A map of Boston's 3-1-1 incident reports from citizens reporting issues such as broken pavement, litter, graffiti etc. (Boston MA, 2012)

Guggenheim Berlin | Dynamic Places

A workshop on changing public spaces with the help of image processing, environmental sensors, and social media analysis (Berlin, 2012)

Kinect Kinetics

A project that demonstrates how inexpensive, accessible 3D sensors can provide accurate pedestrian tracking even in congested spaces (Cambridge MA, 2012)

Future Olympic Village

A simulation and vision of what systems and technologies could grace the Future Olympic Village (London, 2012)

Senseable Rio

A student project focused on issues related to mobility in the metropolitan area and the brief that guided the design process was articulated in the following key points (Rio de Janeiro, 2012)

Visual Explorations of Urban Mobility

Three interactive applications that provide insight into the wealth of information that the data generated by Singapore's transportation infrastructure offer (Singapore, 2012)

Spring Spree

An examination of expenditure patterns and urban analysis at large, using an unprecedented dataset of financial transactions (Spain, 2012)

United Cities of America

Maps created using aggregated, anonymous data from the AT&T cellphone network, depict commuting patterns in eight major US urban areas (USA, 2012)

Forage tracking

A project using location-detecting hardware and software to investigate how Catadores, informal recyclers in Brazilian cities, find and collect material in the city (Sao Paulo, 2012)

Urban Anthologies

A series of booklets showcasing transformational models of infrastructure and urban development (World Economic Forum, Davos, 2012)

LIVE Singapore!

An open platform for the collection, elaboration and distribution of real-time data that reflect urban activity; five graphic visualizations of Singapore's urban dynamics using selected digital data sets generated by the people of Singapore, exhibited at the Singapore Art Museum (Singapore, 2011)

UNICRI

A report about improving urban security through green environment design
(Turin, 2011)

Trains of Data

A research project, in partnership with SNCF, to investigate new ways of gaining insight into how people access different parts of France using the country's high-speed railway system
(France, 2011)

Matching Markets

A project to connect local producers and vendors with clients across boundaries of territory, season and interest
(Trentino, 2011)

BackTalk at MoMA

An investigation on global e-waste by tracking the second life of electronic devices
(New York, 2011)

Health Infoscope

A project, in partnership with GE, to create new ways of understanding human health in the United States
(USA, 2011)

Open Source Architecture

An open-source document on the theme of open-source architecture written collaboratively
(Cambridge MA, 2011)

The Connected States of America

A project analyzing and visualizing the emerging communities based on the social interactions through the use of anonymized mobile phone data
(United States, 2011)

AIDA 2

A system and interface to present data in a seamless way, without causing distraction whilst driving
(Cambridge MA, 2011)

Senseable on Senseable

An ethnographic study of the organizational culture and transdisciplinary nature of MIT's Senseable City Lab
(Cambridge MA, 2011)

Bits & Bodies

A series of projects looking at the methods and tools for digitally and physically duplicating the human form and its movements through "pixel-mapping"
(Cambridge MA, 2011)

My Architect

A global analysis and visualization of the presence and work of a selection of the world's greatest architects today
(Cambridge MA, 2011)

CO2GO

A new type of smartphone application is to assist in making smarter individual transportation choices to collectively reduce carbon emissions in cities
(Cambridge MA, 2011)

Borderline

A project to redraw the map of Great Britain from a network of human interactions, inferred from a large telecommunications database
(UK, 2010)

Seaswarm

A new system for ocean-skimming and oil removal, using a photovoltaic powered conveyor belt made of a thin nanowire mesh to propel itself and collect oil, presented at the Venice Biennale; the nanomaterial, patented at MIT, can absorb up to 20 times its weight in oil
(Cambridge MA, 2010)

Flyfire

A project with ARES Lab aims to transform any ordinary space into a highly immersive and interactive display environment using a large number of self-organizing micro helicopters with small LEDs that act as smart pixels
(Cambridge MA, 2010)

Trash Track

A project using the deployment of tags attached to different types of trash to analyze how these items move through the city's waste management system
(Seattle WA, 2009)

Copenhagen Wheel

A wheel that transforms ordinary bicycles quickly into hybrid e-bikes while functioning as mobile sensing units (Copenhagen, 2009)

Eye Stop

A bus stop that is partially covered with touch-sensitive e-INK and screens, and features state-of-the-art sensing technologies and a variety of interactive services (Florence, 2009)

AIDA: Affective Intelligent Driving Agent

A project in collaboration with Volkswagen to develop a platform comprising of a personal robot and an intelligent navigation system that aims to bring an innovative driving experience (Cambridge MA, 2009)

Obama | One People

An advanced data analysis presenting two dazzling visualizations that celebrate Barack Obama and the people who supported him from all over the U.S. and the world (Washington, 2009)

GeoBlog

A web-based platform for geo-tagging and sharing user generated content on the MIT campus, and retrieving the shared, geo-tagged content based on current location (Cambridge MA, 2009)

Spacebook

A project to design an interactive house whose walls gradually change in transparency with changes in local environment conditions and the presence or absence of people inside and outside the space, using a new type of glass patented at the Senseable City Lab (Cambridge MA, 2009)

Currentcity

A partnership with mobile operators and other aggregated data providers around the world to address long-standing city management problems with innovative user applications (Salzburg & Amsterdam, 2009)

NYTE: New York Talk Exchange

A project visualizing the global exchange of information in real time, exhibited in the Museum of Modern Art (New York, 2008)

Real Time Copenhagen

A collaboration with the city of Copenhagen to develop concepts that showcase how embedded technologies can improve the sustainability of the city, exhibited in City Hall during Kulturnatten (Copenhagen, 2008)

Locabar Live

A collaboration with the Highlands and Islands Enterprise to explore real-time technologies, software platforms and mediated environments to investigate the flow of tourists, activities and resources in the Scottish Highlands (Scotland, 2008)

Los Ojos del Mundo

A project visualizing the photos people visiting Spain leave behind them as evidence of contemporary tourism in the country (Barcelona, 2007)

Real Time Rome

Collection of wireless mobile generated data in Rome to better understand urban dynamics in real time, exhibited at the Venice Biennale (Rome, 2006)

Inside the Sponge

A research project on the MIT residence, Simmons Hall, studying its users, its functioning, and the life it engenders and creates; exhibited at the Canadian Centre for Architecture in Montreal (Cambridge MA, 2006)

Mobile Landscape Graz

A project to harness the potential of mobile phone data to display the complexity of the city in real-time; exhibited at the M-City exhibition in Graz Kunsthaus (Graz, 2005)

iSpots

A project describing changes in living and working at MIT by mapping the dynamics of the wireless network in real-time
(Cambridge MA, 2005)

A.C. Milan

A project using information about the movement of soccer players on the field during a match for strategic and physiologic analysis, directed at improving the performance of the players and that of the team
(Milan, 2004)

Sandscape

A tangible interface for designing and understanding landscapes through a variety of computational simulations using sand; exhibited at the Ars Electronica Center in Linz, Austria
(Cambridge MA, 2004)

Programmable Window

A high-tech alternative to blinds or curtains that lightens and darkens when electricity is applied and removed, using a matrix of tiny wires connected to a computer so they are able to compose letters and figures in grayscale patterns
(Cambridge MA, 2004)

Cannes Reloaded

A project to develop an approach for a new high-technology neighborhood on one of the last available waterfront sites (more than 30 ha) near the downtown of Cannes
(Cannes, 2004)

CARLO RATTI ASSOCIATI PROJECTS

EXPO 2015 New Holland Agriculture 'Earth Screening' pavilion

Winning proposal for New Holland Agriculture's Pavilion at EXPO Milano 2015 featuring two self-driving tractors 'drawing' on the earth roof
(Milan, 2013 - present)

CCD Accelerator 'La Collina de Innovación'

Runner-up design proposal for the first catalyst protect Accelerator of CCD featuring all the design guidelines of the Masterplan
(Guadalajara, 2013)

Medellínnovation District

The Strategic Plan for a new hub of innovation in Medellín
(Medellín, 2013)

Zona Franca Barcelona

The Strategic Plan to improve the quality of the city's public space to meet the needs of a 21st century society
(Barcelona, 2013)

Miami Beach Convention Center

(Miami, 2013)
A design for a 'Cool Light Canopy' - an interface between the physical and digital - for the Miami Beach Convention Center Competition Masterplan by BIG Architects

Open Factory

A project for the redevelopment of Via Rivoltana in Milan aiming to attract new innovative businesses
(Segrate, 2012)

The Learning Garden

Winning project selected by the Renzo Piano Foundation to design a school extension in Cavezzo, one of the community's affected by a major earthquake in northern Italy
(Cavezzo, 2012 - present)

OSArc Manifesto

An arduino based vertical plotter, exhibited at Adhocracy as part of the Istanbul Design Biennale
(Istanbul, 2012)

Smart[er] Cities Manual

A general framework on issues related to smart cities supported by examples and best practices
(Turin, 2012)

Max & Co. Shop 2.0

A project to develop innovative features and services for a flagship store in Milan
(Milan, 2012)

Cassina OurUniverse

Concept ideas for experimental pieces of furniture to be further prototyped and go into production on behalf of Cassina R&D
(Milan, 2012 - present)

Connected Kitchen

A kitchen shaped by online connectivity as a domestic space of tomorrow, previewed at the Hotpoint Innovation Area, as part of Eurocucina - Salone Internazionale del Mobile per Cucina 2012 in Milan
(Milan, 2012)

EXPO 2015 Future Food District pavilion

A symbolic urban space that explores the various possibilities of the future by anticipating new trends and technologies related to food purchase, distribution and consumption
(Milan, 2012 - present)

Volkswagen Exhibit Stand

An architectural and media concept for Volkswagen's exhibition at the Paris Motorshow 2012, with a major focus on visitor experience
(Turin, 2012)

Reggio Children

A competition proposal for a school expansion project attempting to fuse education, environment and architecture
(Reggio Emilia, 2012)

Cosandey Square at EPFL

A competition proposal for the design a series of gardens and pavilions, which become a magical promenade through invisible orchestras of the Montreux Jazz Festival archives
(Lausanne, 2012)

Samsung SmartHome

A project based on the idea of spreading 'smart dust' networks of tiny wireless, microelectro-mechanical systems, devices, sensors or robots around our homes
(Milan, 2012)

EXPO 2012 "Theatre of the Sea" at the Italian pavilion

A competition proposal for a pavilion focused on underwater exploration, conservation and industry
(Yeosu, 2012)

EXPO 2012 Italian pavilion

A competition proposal for a "self-sustainable" and "zero impact" pavilion that uses technologies based on an agricultural product never used before in architecture
(Venlo, 2012)

Samoa Safe(r) House

A research project looking at the principles for tsunami-resistant architecture in American Samoa
(Samoa, 2012)

La Torre

A competition proposal for the design of a new vertical promenade (restaurant, bar and elevator) in the center of Turin, revealing an augmented view over the city
(Turin, 2011)

Ciudad Creativa Digital

The Masterplan for a new project to create a hub for the digital media industry within Mexico
(Guadalajara, 2011)

L'Italia Dov'è

A research project visualizing the migration of Italian creative minds, exhibited at the Festival della Scienza in Genova
(Genova, 2011)

Baite

A project to rehabilitate vernacular farmhouses, huts and barns in order to foster sustainable tourism (Trentino, 2011)

Tecnocentro Bologna

A redevelopment project to create a new and innovative product for the Bolognese territory (Bologna, 2011)

East Jeddah

The Strategic plan for a new evolutionary model and revolutionary new city in harmony with the existing city of Jeddah and its surrounding environment (Saudi Arabia, 2011)

Pensilina Unica

A redesign project for the transportation shelters of Sardinia (Sardinia, 2011)

Casa della Memoria

A competition proposal for the design on a new museum in Milan, using new technologies to house and display the institute's archives and documents (Milan, 2011)

The Cloud

A proposal for a new form of monument and structure at London 2012, which reveals the connected networks of a common humanity fuelling the Olympics (London, 2010)

Progetto Manifattura

A competition proposal for the redevelopment of an ex-industrial area in northern Italy to create a landmark production space of the 20th century (Rovereto, 2010)

KA CARE

The Masterplan proposal for a new sustainable city near Riyadh integrating parametric design and digital technologies (Saudi Arabia, 2010 - 2012)

LightSPINE

A design for a lightweight timber bridge of preassembled mass customized modular components that lace together (Venice, 2010)

CityLife

A new park design proposal, part of the redesigned district of former fairground in Milan (Milan, 2010)

Museo A come Ambiente

A series of spaces for temporary exhibitions held in the courtyard of the 'Museum A come Ambiente' in Turin (Turin, 2010 - present)

Ospedale San 'Agostino

A proposal for the redevelopment of a heritage complex based on the concept of courtyards and open spaces (Modena, 2010)

La Poeta Pavilion

A competition proposal for the design of a discrete and respectful pavilion located beneath the lake of this historical palace, with the display case fully submerged in water (Venaria, 2009)

Digital (sub) Tropical

A research project looking at the theory of a union between climate and technology that allows for the global phenomena of working freely outdoors (Brisbane, 2009)

Digital Water Pavilion

A pavilion for the 2008 World EXPO in Zaragoza with digitally-controlled water walls that create an interactive piece of architecture; named Best Invention of the Year by TIME Magazine (Zaragoza, 2008)

M&M's house

A design for the refurbishment of a medieval palace in the historic district of Bergamo into a high-end residence with extensive use of digital technology (Bergamo, 2008)

Step-house

A design for the renovation, expansion, and connection of two separate rural buildings in Tuscany using the natural landscape to blur the difference between interior and exterior
(Castiglion Fiorentino, 2008)

St. Paul's penthouse

A design for a penthouse next to Saint Paul's Cathedral that, as a result of complex visibility analysis, is virtually invisible from all neighboring streets
(London, 2008)

Trussardi dehors

An 'Unexpected Garden' for the Trussardi Fashion House in the newly pedestrian-friendly Piazza Ferrari in the heart of Milan; incorporates Patrick Blanc's 'Vertical Wall'
(Milan, 2008)

QSella office

The refurbishment of an office on the top floor of a 1930s signature building; all digital technology is hidden, thus giving the feeling of a playful working lounge
(Turin, 2008)

We Tube

A prizewinning installation in the Arrivore Park composed of an asymmetrical arrangement of corten steel cylinders
(Turin & Sao Paulo, 2008)

Trussardi

A design for the refurbishment of the Trussardi headquarters in Milan's city center (Piazza della Scala) with a catwalk-like corridor enhanced with digital projections
(Milan, 2007)

digital_minimal

The design of the digital_minimal exhibition at MIT, exploring a number of possible future directions in architecture and planning based on projects in Turin and Boston
(Boston, 2006)

Puerta Sur EXPO 2008

The Masterplan for one of the main entrances to Zaragoza's EXPO 2008 situated between the train station and Zaha Hadid's new bridge
(Zaragoza, 2006)

Tunnel bath

A prototype design of a narrow 'tunnel bathroom' that could be mass-produced to refurbish typical bathroom units built in Italy during the 1960s and 1970s
(Turin, 2005)

Valpiana

A preliminary design for a luxury condominium in Turin that explores how a 3-D articulated facade could optimize views from the inside to the scenic outside
(Turin, 2005)

Tsunami Safe(r) House

A design for 400 sq.ft. house and 1000 sq.ft. community center for the tsunami-prone Sri Lanka
(Sri Lanka, 2005)

Campetto

A new gateway to one of the leading Alpine ski resorts in Europe; built using CAD/CAM; contains an artificial landscape made of corten steel
(Italian Alps, 2005)

Cinato Penthouse

The refurbishment of a two-story penthouse in Turin using an arrangement of several hundred pieces of laser-cut corten
(Turin, 2005)

Gallo's Grave

Five totems made by corten steel creating a background for the silence of remembrance
(Caramagne, 2005)

Unintentional beauty

The design of an exhibition on the making of the Italian industrial landscape in the mid-20th century (work by Angelo Frisa, photos by Gabriele Basilico)
(Turin, 2004)

Alber1

A project studying the refurbishment of a 19th century villa and park, incorporating elements from local farms and crop circles
(Ferrara, 2004)

Strip-tease

A competition proposal for the design of a cultural center in the resort town of Jurmala in Latvia
(Jurmala, 2004)

MG_flat

The refurbishment of an apartment in Turin; selected for the 2004 Venice Biennale; a video projector with a rotating mirror allows any surface to become a screen
(Turin, 2004)

MG_Flat

An interior design project exhibited at the Venice Biennale in 2004
(Turin, 2004)

Relais Reviglia

The conversion of an ancient country house near the small town of Pollenzo, the gourmet capital of Slow Food, into a high-end restaurant and boutique hotel
(Pollenzo, 2003)

MG_garden

The conversion of a courtyard surrounded by five- to seven-story buildings into a green space for work and leisure for nearby residents
(Turin, 2003)

Pankhasari retreat

A sustainable development on a south facing slope in the Indian Himalayas, built using local materials
(India, 2002)

TAV station

A design proposal for the new high-speed railway station in Florence as a half-underground translucent box
(Florence, 2002)

06 TEACHING

TEACHING EXPERIENCE

Digital City Design Class

Approx 20. Students with Assaf Biderman and Dennis Frenchman
(MIT, 2013)

Digital City Design Class

Approx 20. Students with Assaf Biderman and Dennis Frenchman
(MIT, 2012)

Digital City Design Class

Approx 20. Students with Assaf Biderman and Dennis Frenchman
(MIT, 2011)

Digital City Design Class

Approx 20. Students with Assaf Biderman and Dennis Frenchman
(MIT, 2010)

Senseable City Class

Approx 20. Students with Assaf Biderman and Dennis Frenchman
(MIT, 2009)

Ambient Informatics Class

Approx 20. Students with Assaf Biderman, Bill Mitchell, Dennis Frenchman
(MIT, 2008)

Digital Zaragoza Class

Approx 20. Students with Bill Mitchell and Dennis Frenchman
(MIT, 2006)

Design workshop

Approx 20. Students with Bernard Vaudeville
(Ecole Nationale des Ponts et Chaussées, 2005)

Teaching activity as part of Simmons Hall's Visiting Scholar position

Approx 20. Students
(MIT, 2005)

Urban Infoscapes Class

Approx 20. Students
(Harvard University Graduate School of Design, 2004)

Design workshop

Approx 20. Students with Bernard Vaudeville
(Ecole Nationale des Ponts et Chaussées, 2003)

Cannes Reloaded Class

Approx 20. Students with Bill Mitchell and Dennis Frenchman
(MIT, 2003)

Design workshop

Approx 20. Students with Bernard Vaudeville
(Ecole Nationale des Ponts et Chaussées, 2002)

Design workshop

Approx 20. Students with Bernard Vaudeville
(Ecole Nationale des Ponts et Chaussées, 2001)

Structural design studio

Approx 20. Students with Alessandro De Stefano
(Politecnico di Torino, 1998)

Teaching Assistant of the Faculty of Architecture

Approx 20. Students
(Politecnico di Torino, 1994)

PHD THESES SUPERVISED

Title to be defined

Ricardo Alvarez

PhD, MIT Department of Urban Studies & Planning (in progress); Advisor

Platforms for Urban Crowdsourced Intelligence

David Lee

PhD, MIT Department of Urban Studies & Planning (in progress); Advisor

Participatory Urban Infrastructure: Design Factors and Limitations of Accountability Technologies

Dietmar Offenhuber

PhD, MIT Department of Urban Studies & Planning (in progress, expected 2013); Advisor

Methods and Metrics for Social Distance

Clio Andris

PhD, Urban Information Systems, MIT (2011); Reader

New York Talk Exchange: transnational telecommunications in a globalizing city

Francisca Rojas

PhD, MIT Department of Urban Studies and Planning (2010); Reader

MASTERS THESES SUPERVISED

An Outgrowth to the City Dynamics project at the MIT Senseable City Lab

Kael Greco

Master's in City Planning and M.S. in Technology Policy, MIT Department of Urban Studies and Planning and the Engineering Systems Division (in progress); Advisor

Flex Market: A Transient Mode of Local Exchange

Jennifer Dunnam

M.Arch, Department of Architecture, MIT (2011); Advisor

Powerescapes

Otto Ng

M.Arch, Architecture, Planning, Media, MIT (2011); Advisor

FriendFreight Copenhagen: sustainable goods delivery through a community-based bicycle service

Christine Outram

SMArchS, Architecture & Urbanism, MIT (2009); Reader

Programmable window: a large-scale transparent electronic display using SPD film

Martin Ramos

M.Eng, Dept. of Electrical Engineering and Computer Science, MIT (2004); Advisor

SYMPOSIA ORGANIZED

Engaging Data

A forum on big data in the future city tracks a story of flows, and distributed intelligence—how we collect, process and ultimately use data to understand ourselves: <http://senseable.mit.edu/engagingdata2013/> (MIT, 15 November 2013)

Urban Code

A forum featuring leading thinkers in academia, industry and government from around the world for a series of talks that explore multiple dimensions relating to 'big urban data': <http://senseable.mit.edu/urbancode/> (MIT, 15-16 November 2012)

Forum on Future Cities

A forum bringing together leading thinkers in academia, industry and government from around the world to discuss the most pressing issues of urbanization, and explore how they are being impacted by a wave of new distributed technologies: <http://senseable.mit.edu/futurecities/> (MIT, 12-13 April 2011)

The Urban Internet of Things

In conjunction with the Internet of Things Conference 2010, this workshop explored the design of open and efficient platforms and tools to collect, analyze, store, and share the enormous amount of real-time data digital cities generate through a mix of papers, demos, invited presentations and open discussions for collectively creating the city of the future: <http://senseable.mit.edu/urban-iot/> (IBM Tokyo, 29 November - 1 December 2010)

Urban Revolutions: How Cycling is Transforming our Cities

Local bicycle advocates joined David Byrne to discuss the critical role cycling will play in Boston and other cities working toward sustainability (the event also marked the US launch of the Copenhagen Wheel): <http://senseable.mit.edu/urbanrev/> (MIT, 28 April 2010)

Engaging Data Forum

The First International Forum on the Application and Management of Personal Electronic Information was the launching event of the Engaging Data Initiative, which included a series of discussion panels and conferences at MIT to explore the novel applications for electronic data and address the risks, concerns, and consumer opinions associated with the use of this data: <http://senseable.mit.edu/engagingdata/> (MIT, 12-13 October 2009)

PiNk!

A workshop for undergraduate students, in collaboration with Christopher Bangle (former Chief of Design, BMW): imagine a world of ubiquitous flow of real-time information, a world where every point in space is a sensor and also a potential display, a world where bits and atoms seamlessly merge together: <http://senseable.mit.edu/pink/> (MIT, 27 April - 2 May 2009)

RECORD OF RESEARCH FUNDING

Over 10MS\$ raised from public and private partners for the MIT Senseable City Lab

07 EXHIBITIONS

Erasmus Effect, MAXXI

Exhibition curated by Pippo Ciorra; featuring prototypes from the project *Our Universe*:
www.fondazionemaxxi.it/2013/06/03/effetto-erasmus
(Rome, 6 December 2013 - 6 April 2014)

Rights of Way: Mobility and the City, Boston Society of Architects Gallery

Exhibition curated by MILLIGRAM-office; featuring the project *Trash Track*: <http://bsaspace.org/exhibitions/rights-of-way-mobility-and-the-city/>
(Boston, 5 December 2013 - 31 May 2014)

Participatory City: 100 Urban Trends from the BMW Guggenheim LAB, Solomon R. Guggenheim Museum

Exhibition presenting the findings of 'Sense and the City: Dynamic Public Spaces Workshop', curated by Maria Nicanor: www.guggenheim.org/new-york/exhibitions/on-view/participatory-city-100-urban-trends-from-the-bmw-guggenheim-lab
(New York, 11 October 2013 - 04 January 2014)

Now Future, Dutch Design Week

Klokgebouw Composed Exhibition, presenting *Lilly-Bot*:
<http://cesaregriffa.com/waterlilly/>
(Eindhoven, 19-27 October 2013)

Lifecycle of Products, Museo della Scienza e della Tecnologia Leonardo da Vinci

Exhibition featuring the project *Trash Track*:
www.museoscienza.org/english/departments/lifecycle_products.asp
(Milan, 25 September 2013 - present)

A School as a Learning Community, Loris Malaguzzi International Center

Exhibition presenting proposal for *Reggio Children - Scuola dell'Infanzia*: www.reggiochildren.it/mostra/una-scuola-come-comunita-in-apprendimento/?lang=en
(Reggio Emilia, 15 February 2013 - present)

Stockholm on the Move, Fargfabriken

Exhibition curated by Johanna Bratel; featuring *Trash Track*: www.fargfabriken.se/en/stockholm-on-the-move
(Stockholm, 22 November 2012 - 24 March 2013)

2012 exhibition, Media Architecture Biennale

Exhibition curated by Gernot Tscherteu and Morten Lervig; featuring *Flyfire* and *The Cloud*
(Aarhus, 15 November 2012 - 17 November 2012)

2012 International Techno Art Exhibition, National Taiwan Museum of Fine Arts

Exhibition curated by Shu-Min Lin; featuring *Trash Track* and *Forage Tracking*
(Taipei, 13 October 2012 - 23 December 2012)

MIT Architecture Department

Exhibition of *Trans Trash*, curated by Pablo Rey Mazón
(Cambridge MA, 30 September 2012 - 23 October 2011)

GeoCity Smart City, Beijing Design Week 2012

Exhibition curated by CMOA (China Millennium Monument Museum of Digital Arts); featuring *LIVE Singapore!* and *Trains of Data*
(Beijing, 29 September 2012 - October)

Sensing Place, Haus für elektronische Künste

Exhibition curated by Sabine Himmelsbach; featuring *Trash Track*
(Basel, 31 August 2012 - 11 November 2012)

FuturePerfectSweden, Ö Festival

Exhibition featuring various projects by *Senseable City Lab*
(Vaxholm, Sweden, 23 August 2012 - 26 August 2012)

Copernikus Science Center

Exhibition of *Trash Track*
(Warsaw, 1 July 2012 - present)

Media Architecture Biennale

Exhibition of the projects *Fly Fire* and *The CLOUD*
(Aarhus, 2012)

LaBoral Centro de Arte y Creacion Industrial

Work exhibited together with *Dietmar Offenhuber*
(Lima, July - August 2011)

2011 Festival delle Resistenze

Exhibition of *Copenhagen Wheel*
(Bolzano, 25 April - 1 May 2012)

Media Architecture Biennale

Exhibition of the projects Fly Fire and The CLOUD
(Aarhus, 2012)

Designworld - Designing the New World, Helsinki Design Museum

Exhibition curated by Jukka Savolainen; featuring Copenhagen Wheel
(Helsinki, 27 January 2012 - 6 May 2012)

SuperUrbano, Palazzo della Regione

Exhibition curated by Andrea Boschetti; featuring Digital Water Pavilion
(Padova, 27 October 2011 – 13 February 2012)

PULS - Hacking the City, MAD Emergent Art Center

Exhibition curated by Tom Veeger and René Paré; featuring various projects by Senseable City Lab
(Eindhoven, 22 - 30 October 2011)

Design is Design is Not Design, Gwangju Design Biennale

Exhibition co-curated by Seung H-Sang and Ai Weiwei; featuring BackTalk, LiveSingapore, Trash Track, and FlyFire
(Gwangju, 2 September - 23 October 2011)

Sensing Place/Placing Sense, Ars Electronica

Exhibition curated by Dietmar Offenhuber and Katja Schechtner; featuring Los Ojos del Mundo
(Linz, 3 - 9 September 2011)

Talk to Me, Museum of Modern Art

Exhibition curated by Kate Carmody; featuring Backtalk
(New York City, 24 July - 7 November 2011)

2011 Festival, FutureEverything

Exhibition curated by Drew Hemmen; featuring Borderline
(Manchester UK, 11 - 14 May 2011)

Stazione Futuro on the 150th anniversary of Italy, Officine Grandi Riparazioni

Exhibition curated by Riccardo Luna; featuring Copenhagen Wheel
(Turin, 17 March - 20 November 2011)

Kmzer011 - Arts in Turin 1995 - 2011, Museum of Natural Science

Exhibition curated by Marco Rainò and Barbara Brondi; featuring various projects by Carlo Ratti Associati
(11 February - 11 April 2011)

MIT 150, MIT Museum

Exhibition curated by Deborah Douglas; featuring Copenhagen Wheel
(Cambridge MA, 8 January - 31 December 2011)

Architecture of Consequence, Netherlands Architecture Institute

Exhibition curated by Lukas Feireiss; featuring various projects by Senseable City Lab
(Rotterdam, 7 January - 13 November 2011)

Places & Spaces: Mapping Science, University College Dublin

Exhibition curated by Katy Börner; featuring Mobile Landscapes
(Dublin 15 - 19 November 2010)

Sustainable Development, MIT Press Online Museum

Digital exhibition curated by Jeremy Hight; featuring Obama One People, Trash Track, and Los Ojos del Mundo

GiArch - Young Italian Architects, Milan Triennale

(Milan, 3 December 2010 – 9 January 2011)
Exhibition curated by Luca Paschini; featuring Trussardi dehors

Sustainable Development, Museo Interactivo de Economía

Exhibition featuring Trash Track
(Mexico City, 22 November 2010 - present)

Biennale Internationale du Design

Exhibition of Digital Water Pavilion
(Saint-Etienne, 20 November - 5 December 2010)

Serpentine Map Marathon, London Serpentine Gallery

(London, 16 - 17 October 2010)
Exhibition curated by Hans Ulrich Obrist; featuring Borderline

2010 exhibition, Media Architecture Biennale, Künstlerhaus

Exhibition curated by Gernot Tscherteu, Martin Tomitsch, and Oliver Schürer; featuring Flyfire and the Cloud (Vienna, 7 - 31 October 2010)

Designing for the Asia Pacific, Unlimited

Exhibition curated by Fleur Watson; featuring Tsunami-Safe(r) House (Brisbane, 4 - 10 October 2010)

Open Source Life Symposium, Ars Electronica

Exhibition curated by Andreas Hirsch; featuring Trash Track (Linz, 2 - 11 September 2010)

Italian Pavilion, Venice Biennale

Exhibition curated by Luca Molinari; featuring Seawarm (Venice, 29 August – 21 November 2010)

Trash Fashion: Designing out of Waste, Museum of Science

Exhibition curated by Becky Early, Clara Vuletich, Melanie Bowles, and Kathy Round; featuring Trash Track (London, 26 June 2010 - 31 March 2011)

Retrospective of the Senseable City Lab, Grey Area Foundation for the Arts

Exhibition curated by Carlo Ratti and Assaf Biderman; featuring selected projects by Senseable City Lab (San Francisco CA, 11 June – 11 August 2010)

London Festival for Architecture

Exhibition curated by Sarah Ichioka; featuring The Cloud (London, 10 June – 4 July 2010)

Habitar, LABORal Centro de Arte y Creación Industrial

Exhibition curated by José Luis de Vicente; featuring Real Time Rome (Asturias, 27 May - 8 November 2010)

Designoftheotherthings, Milan Triennale

Exhibition curated by Stefano Maffei; featuring Copenhagen Wheel (Milan, 26 May - 27 June 2010)

Italians do it Better, Spazio FMG

Exhibition curated by Luca Molinari and Simona Galateo; featuring The Cloud (Milan, 20 May - 18 June 2010)

Future City Innovation Festival

Exhibition featuring various projects by Senseable City Lab (Thessaloniki, 10 - 16 May 2010)

Boston Museum of Science

Exhibition of Sandscape (Boston MA, 1 January 2010 - current)

Situated Technologies: Toward the Sentient City, Architectural League of New York

Exhibition curated by Mark Shepard; featuring Trash Track (New York, 17 September - 7 November 2009)

Ecological Urbanism, Harvard University

Exhibition curated by Graduate School of Design; featuring various projects by Senseable City Lab (Cambridge MA, 30 March - 17 May 2009)

Tourism: Spaces of Fiction, Barcelona Design Museum

Exhibition curated by Ramon Prat; featuring Los Ojos del Mundo (Barcelona, 3 December 2008 – 31 May 2009)

Digital Cities: London's Future, New London Architecture Foundation

Exhibition curated by Terry Farrel; featuring Real Time Rome (London, 20 November 2008 – 17 January 2009)

Multiverso, Icoграда Design Week

Exhibition curated by Icoграда; featuring Real Time Rome, Wiki City, and the Digital Water Pavilion (Turin, 13 - 19 October 2008)

Seville International Biennale of Contemporary Art

Exhibition curated by Peter Weibel and Marie-Ange Brayer; featuring Digital Water Pavilion (Seville, 2 - 19 October 2008)

International Exhibition Expo 2008

Exhibition featuring Digital Water Pavilion
(Zaragoza, 13 June 2008 - present)

Geodesign, Turin World Design Capital 2008

Exhibition curated by Stefano Boeri; featuring We Tube
(Turin, 24 May - 6 July 2008)

**Rizoma - Biennale of Young Italian Architects,
Fondazione Piaggio**

*Exhibition curated by Luigi Prestinenza Puglisi; featuring
Digital Water Pavilion*
(Pontedera, 23 May - 30 June 2008)

Milan Design Week

Exhibition on Trussardi dehors
(Milan, 9 - 14 April 2008)

Design and the Elastic Mind, Museum of Modern Art

*Exhibition curated by Paola Antoneli and Patricia Juncosa;
featuring New York Talk Exchange*
(New York, 24 February - 12 May 2008)

Mark Epstein Gallery, MIT Museum

Inaugural exhibition featuring Sandscape
(Cambridge MA, 28 November 2007 – 31 January 2009)

Next Generation, Politecnico di Torino

*Exhibition curated by Luca Barello, Sisto Giriodi, and
Lorenzo Mamino; featuring Tsunami-Safe(r) House*
(Turin, 30 October - 14 November 2006)

10th Architecture Exhibition, Venice Biennale

*Exhibition curated by Richard Burdett; featuring Real
Time Rome*
(Venice, 10 September - 19 November 2006)

Simplicity Festival, Ars Electronica Center

Exhibition featuring Real Time Rome
(Linz, 31 August - 5 September 2006)

Inside the Sponge, Canadian Center for Architecture

*Exhibition on Inside the Sponge project, curated by Carlo
Ratti and Talia Dorsey*
(Montreal, 10 August - 19 November 2006)

Digital_Minimal, MIT Work Gallery

*Exhibition curated by Carlo Ratti; featuring selected
projects by Carlo Ratti Associati*
(Cambridge MA, 10 February - 29 March 2006)

**Compendium: the Work of the University of Cambridge
Department of Architecture, Royal Institute of British
Architects**

*Exhibition featuring selected projects by Carlo Ratti
Associati*
(London, 27 January - 18 February 2006)

iSPOTS, MIT Museum

*Exhibition on iSPOTS project curated by Carlo Ratti and
Andres Sevtsuk*
(Cambridge MA, 27 January - 18 February 2006)

M-City European Cityscapes, Graz Kunsthaus

*Exhibition curated by Marco De Michelis; featuring
Mobile Landscapes*
(Graz, 1 October 2005 – 8 January 2006)

Notizie dall'Interno, Venice Biennale

*Exhibition curated by Mirko Zardini; featuring MG_Flat
project by Carlo Ratti Associati*
(Venice, 12 September - 7 November 2004)

**High-Speed Railway Competition Results Exhibition,
Ospedale degli Innocenti**

*Exhibition featuring shortlisted projects for the new
Florence Railway station, curated by Gae Aulenti*
(Florence, 14 February - 1 March 2003)

Get in Touch, Ars Electronica Center

Exhibition curated by Hiroshi Ishii; featuring Sandscape
(Linz, 1 September 2002 - 24 August 2003)

Designing Craft Europe, Promotrice delle Belle Arti

*Exhibition curated by Cristina Morozzi; featuring wooded
prototype of award winning design Vertebra*
(Torino, 27 November - 19 December 1999)

**European Students' Competition Solar Buildings Results
Exhibition, Palazzo Vecchio**

*Exhibition curated by Thomas Herzog; featuring award
winning Solar Building project*
(Florence, 1997)

08 INVITED LECTURES AND SEMINARS

Homelab Roundtable

(Milan - Italy, 29 January 2014)

The Green Gold - 2014 Enova Conference

(Trondheim - Norway, 28 January 2014)

Fondazione Corriere della Sera - Milano città di Expo, quando la tecnologia incontra la sostenibilità

(Milano - Italy, 27 January 2014)

LKYCIC Brown Bag Lunch Series - The Senseable City: A Smart City with a Human Face

(Singapore, 8 January 2014)

Regione Lombardia - Convention DG Attività, Produttive, Ricerca e Innovazione

(Milan - Italy, 17 December 2013)

RE.WORK Cities Summit

(London - UK, 13 December 2013)

Design Shanghai Exhibition

(Shanghai - China, 3 December 2013)

NRU ITMO Urban Data Lab

(St. Petersburg - Russia, 25 November 2013)

Smartmetropolia

(Gdansk - Poland, 22 November 2013)

FederlegnoArredo - Forum for Innovations in Wood/Furnishings

(Bergamo - Italy, 21 November 2013)

WEF - Summit on the Global Agenda 2013

(abu Dhabi - United Arab Emirates, 18 November 2013)

The Class of 2020

(Amsterdam - Netherlands, 13 November 2013)

IV Festival Intelligenza Collettiva

(Florence - Italy, 8 November 2013)

ICT2013

(Vilnius - Lithuania, 7 November 2013)

EmTech Spain

(Valencia - Spain, 5 November 2013)

Amber'13 Art and Technology

(Istanbul - Turkey, 3 November 2013)

ISS Institute Fellowship

(Melbourne - Australia, 31 October 2013)

Convention FIAT Group - CNH

(Rome - Italy, 29 October 2013)

Convegno Giovani Imprenditori Confindustria

(Napoli - Italy, 19 October 2013)

Bergamo Scienza

(Bergamo - Italy, 12 October 2013)

Reatech

(Milan - Italy, 12 October 2013)

Adaptation 2013-2014

(Geneva - Switzerland, 11 October 2013)

Saint Gobain Annual Meeting

(Washington - USA, 9 October 2013)

Red Business Forum

(Athens - Greece, 8 October 2013)

Zurich University of the Arts Conference

(Zurich - Switzerland, 7 October 2013)

Smart City Expo Bogotà 2013

(Bogotà - Colombia, 3 October 2013)

Innovation Festival

(Bolzano - Italy, 28 September 2013)

International Science and Technology Committee

(Belle Eglise - France, 16-17 September 2013)

Confersercenti Annual Meeting

(Perugia - Italy, 14 September 2013)

21° Forum Scenari Immobiliari

(Santa Margherita - Italy, 13 September 2013)

TEDx Berlin

(Berlin - Germany, 7 September 2013)

SMART Singapore

(Singapore, 28 August 2013)

PopTech, Rockefeller Foundation's Bellagio Center

(Bellagio - Italy, 21 August 2013)

Emergenza Uomo, Rimini Meeting 2013

(Rimini - Italy, 18 August 2013)

IKEA

(Malmo - Sweden, 2 August 2013)

Alta Scuola Politecnica

(Turin - Italy, 25 July 2013)

Consiglio Nazionale Ingegneri

(Brescia - Italy, 25 July 2013)

COOP

(Montelupo Fiorentino - Italy, 4 July 2013)

ENEL Lab

(Rome - Italy, 2 July 2013)

Nasscom: Big Data & Analytics Summit 2013

(Hyderabad - India, 27 June 2013)

USI: The meeting of Geeks and Bosses

(Paris - France, 25 June 2013)

DataConnexions - Microsoft HQ Conference

(Paris - France, 24 June 2013)

G8 Conference

(London - UK, 13 June 2013)

Accenture

(London - UK, 12 June 2013)

Smart City

(Asti - Italy, 11 June 2013)

Smart City

(Rome - Italy, 10 June 2013)

Firenze Repubblica

(Florence - Italy, 8 June 2013)

AlpeuRegio Executive Forum

(Vienna - Austria, 7 June 2013)

The Architect

(Naples - Italy, 6 June 2013)

Expo Change Makers

(Milan - Italy, 31 May 2013)

EM Tech

(Mexico City - Mexico, 29 May 2013)

Small City | Big

(Valletta - Malta, 16 May 2013)

FAI Giovani

(Milan - Italy, 12 May 2013)

World 50

(New York - USA, 8 May 2013)

Big Data Forum

(Milan - Italy, 19 April 2013)

Danish Architecture Center

(Copenhagen - Denmark, 18 April 2013)

Meet the Media Guru, Museo Bagatti Valsecchi

(Milan - Italy, 13 April 2013)

Futuropolis: Do smart cities really exist?

(Toulouse - France, 12 April 2013)

Lecture at Palazzo Ducale, Corriere della Sera Summit

(Genova - Italy, 10 April 2013)

1st Design Summit, RCS

(Milan - Italy, 8 April 2013)

URBEM

(Sao Paulo - Brazil, 24 March 2013)

Camera di Commercio

(Milan - Italy, 19 March 2013)

MIPIM Innovation Forum

(Cannes - France, 13 March 2013)

Medellinnovation District

(Medellin - Colombia, 11 March 2013)

Alaska Design Forum

(Anchorage - Alaska, 4 March 2013)

Yale

(New Haven CN - USA, 26 February 2013)

Technoport Talks

(Trondheim - Norway, 12 February 2013)

Alta Scuola Politecnica

(Turin - Italy, 8 March 2013)

Make a Difference

(Hong Kong, 26 January 2013)

CapitaLand

(Singapore, 24 January 2013)

Confindustria

(Alessandria - Italy, 14 December 2012)

Volkswagen

(Berlin - Germany, 13 December 2012)

Confindustria

(Genova - Italy, 12 December 2012)

Urban Forum

(Moscow - Russia, 9 December 2012)

Electric City

(London - UK, 7 December 2012)

The Role of Cities Summit

(San Juan - Puerto Rico, 28 November 2012)

La Citta Senza Nome, MAXXI

(Rome - Italy, 23 November 2012)

Telefonica

(Barcelona - Spain, 21 November 2012)

Guadalajara Ciudad Creativa Digital (CCD)

(Mexico City - Mexico, 20 November 2012)

Roundtable organized by the UAE Government and Government of Dubai

(Dubai - United Arab Emirates, 11 November 2012)

Future Internet for New Century Cities

(Zaragoza - Spain, 9 November 2012)

GE

(New York - USA, 7 November 2012)

Toronto Digifest

(Toronto - Canada, 2 November 2012)

Festival Green

(Sassuolo - Italy, 28 October 2012)

Genova Festival Scienza

(Genova - Italy, 28 October 2012)

Smart City

(Bologna - Italy, 28 October 2012)

UX Conference

(Lugano - Switzerland, 27 October 2012)

CEOs for Cities

(Boston MA - USA, 24 October 2012)

Smart City Expo

(Barcelona - Spain, 24 October 2012)

Orange MIT

(Cambridge MA - USA, 22 October 2012)

MtMG

(Toronto - Canada, 20 October 2012)

Tijuana Innovadora

(Tijuana - Mexico, 19 October 2012)

Expo CHIAC

(Mexico City - Mexico, 18 October 2012)

GEB

(Essen - Germany, 17 October 2012)

World Bank

(Barcelona - Spain, 8 October 2012)

Biennale di Architettura di Venezia

(Venice - Italy, 6 October 2012)

World 50

(New York - USA, 2 October 2012)

XII World Leisure Congress

(Rimini - Italy, 1 October 2012)

Beijing Design Week

(Beijing - China, 29 September 2012)

NASSCOM

(Pune - India, 28 September 2012)

Social Media Week

(Turin - Italy, 26 September 2012)

Circolo Whist

(Turin - Italy, 26 September 2012)

Se stasera sono qui with Sabrina Tinelli, La 7

(Milan - Italy, 26 September 2012)

Ericsson

(Paris - France, 25 September 2012)

Arq-Futuro

(Sao Paulo - Brazil, 24 September 2012)

Digital-Life-Design (DLD) Cities

(London - UK, 20 September 2012)

Techonomy

(Detroit MI - USA, 12 September 2012)

Ambrosetti Forum

(Cernobbio - Italy, 9 September 2012)

Thailand Creative & Design Center

(Bangkok - Thailand, 7 September 2012)

Scenari Immobiliari

(Santa Margherita - Italy, 4 September 2012)

Digital Earth

(Wellington - New Zealand, 2 September 2012)

GE-Monocle London Olympics

(Thessaloniki - Greece, 30 July 2012)

ASHGHAL Public Works Authority

(Doha - Qatar, 29 July 2012)

Presentation to Khazanah

(Kuala Lumpur - Malaysia, 29 July 2012)

Guggenheim Lab Berlin Conclusions

(Berlin - Germany, 28 July 2012)

ASP

(Sestrieres - Italy, 24 July 2012)

Santa Fe Institute

(Santa Fe NM - USA, 14 July 2012)

FAD Barcelona City Hall

(Barcelona - Spain, 10 July 2012)

Reply

(Milan - Italy, 10 July 2012)

Guggenheim Lab Berlin

(Berlin - Germany, 10 July 2012)

Giornata della Creatività Roma

(Rome - Italy, 5 July 2012)

Waste MET Asia

(Singapore, 3 July 2012)

WCS

(Singapore, 3 July 2012)

Promexico

(New York USA, 26 June 2012)

Rockefeller Foundation

(New York USA, 26 June 2012)

BMW

(Rome - Italy, 21 June 2012)

The Foundry

(Palo Alto USA, 7 June 2012)

SP+Limpia

(Sao Paulo - Brazil, 5 June 2012)

Trento Festival Economia

(Milan - Italy, 2 June 2012)

ECSITE

(Toulouse - France, 1 June 2012)

Organisation for Economic Co-operation and Development

(Leipzig - Germany, 30 May 2012)

Triennale Repower

(Milan - Italy, 28 May 2012)

Northern World Mandate

(Helsinki - Finland, 26 May 2012)

Torino Smart City

(Turin - Italy, 25 May 2012)

City of Thessaloniki

(Thessaloniki - Greece, 24 May 2012)

Skolkovo

(Moscow - Russia, 20 May 2012)

ForumPA Roma

(Rome - Italy, 17 May 2012)

New Cities Foundation

(Paris - France, 15 May 2012)

Olympic Legacy

(London - UK, 26 April 2012)

Royal College of Art / Architectural Review Lecture Series

(London - UK, 26 April 2012)

University College London CASA

(London - UK, 20 April 2012)

Meet the Media Guru

(Milan - Italy, 18 April 2012)

Torino Smart City Festival

(Turin - Italy, 17 April 2012)

Progetto SO.PRA.N.E.

(Prato - Italy, 16 April 2012)

Conagesp: Cidades Inteligentes

(Brasilia - Brazil, 3 April 2012)

Economist

(Moscow - Russia, 30 March 2012)

Krost

(Moscow - Russia, 27 March 2012)

Economist

(London - UK, 22 March 2012)

Ecobuild

(London - UK, 21 March 2012)

Young Presidents Organisation (YPO)

(Cape Town - South Africa, 21 March 2012)

Eum Presentations

(Brussels - Belgium, 21 March 2012)

Triennale

(Milan - Italy, 20 March 2012)

Siemens MIT

(Cambridge MA - USA, 19 March 2012)

Spurs/Loeb, MIT

(Cambridge MA - USA, 7 March 2012)

Axia

(Milan - Italy, 27 February 2012)

Number 10, Downing Street

(London - UK, 21 February 2012)

Design Indaba

(Cape Town - South Africa, 2 February 2012)

Audi MIT Media Lab

(Cambridge MA - USA, 12 January 2012)

CES Ericsson

(Las Vegas - USA, 3 January 2012)

World Expo

(Barcelona - Spain, 29 November 2011)

IAAC Barcelona

(Turin - Italy, 28 November 2011)

La Fabrique de La Cite

(Nice - France, 24 November 2011)

21 Minuti

(Assisi - Italy, 21 November 2011)

Polito Torino Profumo

(Barcelona - Spain, 19 November 2011)

MMOVE

(Reggio Emilia - Italy, 16 November 2011)

Scenari Immobiliari

(Milan - Italy, 10 November 2011)

Eyebeam New York

(New York - USA, 4 November 2011)

Baruck College New York

(New York - USA, 3 November 2011)

Cognizant

(London - UK, 30 October 2011)

IDA Taipei Design Migrations

(Taipei - China, 26 October 2011)

Local Governments for Sustainability

(Seoul - Korea, 22 October 2011)

Teague Seattle

(Seattle WA - USA, 20 October 2011)

Economist

(Stockholm - Sweden, 18 October 2011)

KTH Royal Institute of Technology

(Stockholm - Sweden, 18 October 2011)

TED Talks

(Long Beach - USA, 18 October 2011)

Austrian Innovation Forum

(Vienna - Austria, 13 October 2011)

SNCF-5Plus

(Paris - France, 13 October 2011)

Checkdisout

(Hamburg - Germany, 12 October 2011)

Future Cities

(Madrid - Spain, 30 September 2011)

PicNic Amsterdam

(Amsterdam - Netherlands, 14 September 2011)

Audi Future Summit

(Frankfurt - Germany, 11 September 2011)

Guggenheim Lab Berlin

(Berlin - Germany, 7 September 2011)

Senseable City

(Alpbach South Tyrol - Austria, 26 August 2011)

King Abdulaziz City for Science and Technology

(Riyadh - Saudi Arabia, 27 July 2011)

TIS Innovation Park

(Bolzano - Italy, 26 July 2011)

Indesit Milano

(Milan - Italy, 22 July 2011)

Dandini

(Turin - Italy, 7 July 2011)

Number 10, Downing Street

(London - UK, 7 July 2011)

Palazzo Mezzanotte Milano

(Milan - Italy, 30 June 2011)

Fondazione Renzo Piano

(Genova - Italy, 10 June 2011)

University of Cambridge

(Cambridge - UK, 1 June 2011)

Barcelona Digital

(Barcelona - Spain, 31 May 2011)

World Economic Forum

(Rio de Janeiro - Brazil, 27 May 2011)

Forum of Future Cities, MIT

(Cambridge MA - USA, 18 May 2011)

Harvard University

(Cambridge MA - USA, 6 May 2011)

Activate

(New York - USA, 29 April 2011)

Economist

(Paris - France, 29 April 2011)

Università IUAV di Venezia

(Venice - Italy, 19 April 2011)

UNICRI

(Milan - Italy, 18 April 2011)

EPFL

(Lausanne - Switzerland, 15 April 2011)

See Conference

(Wiesbaden - Germany, 9 April 2011)

ILP

(Vienna - Austria, 26 March 2011)

Scenari Immobiliari

(Erbusco - Italy, 25 March 2011)

Economist conference

(New York - USA, 16 February 2011)

DLD

(Munich - Germany, 25 January 2011)

Beijing Transcultura Beijing

(Beijing - China, 22 January 2011)

Academy of Fine Arts

(Stuttgart - Germany, 11 January 2011)

Ericsson

(Rome - Italy, 10 November 2010)

TEDx

(Lake Como - Italy, 6 November 2010)

SEI Center Wharton, University of Pennsylvania

(Philadelphia - USA, 4 November 2010)

Public Camp

(Bari - Italy, 3 November 2010)

Dean's lecture, Columbia University

(New York - USA, 3 November 2010)

PopTech Camden

(Maine - Canada, 21 October 2010)

Alta Scuola Politecnica

(Milan - Italy, 16 October 2010)

Scenari Immobiliari

(Milan - Italy, 12 October 2010)

Taormin, Ambrosetti

(Cernobbio - Italy, 8 October 2010)

ENEL

(Rome - Italy, 7 October 2010)

Breaking Walls, Wellesley College

(Wellesley MA - USA, 29 September 2010)

Monaco Museum

(Monaco, 23 September 2010)

Sochi Forum

(Sochi - Russia, 18 September 2010)

European Conference on Complex Systems

(Lisbon - Portugal, 17 September 2010)

Ars Linz

(Linz - Austria, 4 September 2010)

MIT ILP

(Barcelona - Spain, 14 June 2010)

Festival dell'Architettura

(Rome - Italy, 12 June 2010)

CaT: Creativity and Technology

(New York - USA, 10 June 2010)

GE

(Thessaloniki - Greece, 9 June 2010)

University College London

(London - UK, 21 May 2010)

City of the Future

(Thessaloniki - Greece, 14 May 2010)

MIT CSAIL Lunch

(Cambridge MA - USA, 5 May 2010)

University of North Carolina UNCC

(Charlotte - USA, 3 May 2010)

GE

(Frankfurt - Germany, 21 April 2010)

Sole24Ore

(Milan - Italy, 16 April 2010)

Presentation of the Lab's work (with MoMA's Paola Antonelli), Milan Salone Internazionale

(Milan - Italy, April 2010)

APCS conference

(Seoul - Korea, 16 September 2009)

Innovator in Residence

(Brisbane - Australia, 28 August 2009)

University of Queensland

(Brisbane - Australia, 27 August 2009)

Adelaide City Hall

(Adelaide - Australia, 17 August 2009)

Technion University and MIT

(Cambridge MA - USA, 26 February 2009)

LIFT 09 Conference

(Geneva - Switzerland, 26 February 2009)

City Industrial Association

(Parma - Italy, 24 February 2009)

Architectural Association

(London - UK, 20 February 2009)

Lab at the World Economic Forum

(Davos - Switzerland, 29 January 2009)

MIT-Portugal Gulbenkian Foundation

(Lisbon - Portugal, 27 January 2009)

DLD 2009 Conference

(Munich - Germany, 26 January 2009)

CENSAM workshop, SMA Program

(Singapore, 19 January 2009)

Future Capitals Summit

(Abu Dhabi - United Arab Emirates, 13 January 2009)

Metropolis World Congress

(Sydney - Australia, 26 October 2008)

Multiverso Icoграда Design Week Turin

(Turin - Italy, 17 October 2008)

World Economic Forum

(Tianjin - China, 27 September 2008)

FESTARCH International Architecture Festival

(Cagliari - Italy, 30 May 2008)

Social Positioning Method SPM 2008

(Tartu - Estonia, 10 March 2008)

Industrial Liaison Program National Meeting
(Rome - Italy, 30 October 2007)

Next Level Festival, QUT
(Brisbane - Australia, 26 October 2007)

Changing Strategies Symposium
(Vienna - Austria, 15 October 2007)

veDrò
(Dro - Italy, 28 August 2007)

School of Architecture, Hawaii University
(Hawaii - USA, 20 June 2007)

Industrial Liaison Program Conference, MIT
(Boston MA - USA, 25 April 2007)

Geoware Conference and Workshop
(Aarhus - Denmark, 7 March 2007)

IGP Decaux National Convention
(Trieste - Italy, 1 November 2006)

Work Tech Conference, British Library
(London - UK, 7 November 2006)

Fondazione Tronchetti Provera
(Milan - Italy, 20 April 2006)

Cities & Information Social Informatics Fair
(Kyoto - Japan, 13 September 2005)

Milan Triennale Festa dell'Architettura
(Milan - Italy, 1 June 2005)

**Guest lecturer - Antoine Picon's course, Harvard
University Graduate School of Design**
(Cambridge MA - USA, 7 April 2005)

Tsingua University School of Architecture
(Beijing - China, 22 March 2005)

New Century Cities Conference
(Boston - USA, 18 January 2005)

Tsingua University School of Architecture
(Beijing - China , 25 June 2004)

Advanced Spatial Analysis, University College London
(London - UK, 19 May 2004)

Politecnico di Milano Scuola di Dottorato
(Milan - Italy, 5 May 2004)

09 PUBLICATIONS

Please note that PDFs of most articles are available at:
senseable.mit.edu/papers/publications.html

BOOKS AND MONOGRAPHS

Ratti, C. and Claudel, M.
The City of the Future
(New Haven CT: Yale University Press, forthcoming 2015)

Ratti, C., Grima, J., Claudel, M. and Shafir, T.
Open Source Architecture
(Italian - Milan: Einaudi; English - London: Thames and Hudson, forthcoming 2014)

Ratti, C. and Offenhuber, D.
Die Stadt Entschlüsseln
(Berlin: Suhrkamp Verlag, 2013; English and Chinese editions, forthcoming 2014)

Ratti, C.
Smart City, Smart Citizens
(Milan: Egea, 2013)

Ratti, C. and Nicolino, W.
Digital Water Pavilion
(Milan: Electa, 2008)

Ratti, C. and Dorsey, T.
Inside the Sponge
(Canada: Canadian Centre for Architecture, 2007)

PUBLISHED REPORTS

Muessig, A., Lee, K. J., Ruthenberg, K., Barker, K., Coburn, K., Vanky, A. and Ratti, C.
Senseable City Guide to Moscow (MIT)
(Boston: SA+P Press, 2012)

Kats, P., Mamaeva, T., Paramonova, D. and Vanky, A.
Senseable City Guide to Moscow (Strelka)
(Boston: SA+P Press, 2012)

Siprikova, A., Medellin, C., Izmestyev E., Bykova, E., Rudnichenko, I., Kopeikina, N., Ferrentino, C., Humeres, F., Soldevila, L.M., Kim, M., Bost, T., Youngerman, Z., Offenhuber, D., Lee, D. and Ratti, C.
Senseable City Guide to Madrid
(Boston: SA+P Press, 2012)

Anwar, A., Komninos, A., Winder, J. I., Gordon, J., Silvester, K., Lumaga, M. B., Radoman, S. and Ratti, C.
Senseable City Guide to Rio de Janeiro 2
(Boston: SA+P Press, 2012)

Albericci, A. N., Hu, A., Martinez, A., Kennedy, S. J., Lim, Y., Beranger, A., Hong, Y. W., Baczuk, E. and Ratti, C.
Senseable City Guide to Thessaloniki
(Boston: SA+P Press, 2011)

Shaw, K., Cheung, D., Ching, A., Sheehan, T., Martani, C., Lau, S. S., Lee, D. and Ratti, C.
Senseable City Guide to Copenhagen 2
(Boston: SA+P Press, 2011)

Mohsenin, M., Chen, X., Daou, D., Pierson, C., Lee, D. and Ratti, C.
Senseable City Guide to Paris
(Boston: SA+P Press, 2011)

Kardasis, A., Dunnam, J., Bindner, M., Suri, S., Vanky, A., Offenhuber, D. and Ratti, C.
Senseable City Guide to Bolzano
(Boston: SA+P Press, 2011)

Giner, B. R., Hutchinson, E., Baczuk, E., Kim, O., Ng O, C, L. and Ratti, C.
Senseable City Guide to Rio de Janeiro
(Boston: SA+P Press, 2011)

Woods, A., Flores, H., Gawendo, J. W., Lehmkuhl, C., Lee, D., Kokol, J. and Ratti, C.

Senseable City Guide to Copenhagen

(Boston: SA+P Press, 2011)

Ratti, C., Nabian, N., Biderman, A., Robinson, P., Outram, C., Pereira, F. C., Vaccari, A., Giardin, F., Chiu, C., Reades, J., Calabrese, F. and Ratti, C.

Senseable City Guide

(Boston: SA+P Press, 2011)

Rojas, F., Valeri, C., Caldesi, Kloeckl, K. and Ratti, C.

New York Talk Exchange: A Project for MoMA

(Boston: SA+P Press, 2008)

De Vivo, F., Einaudi, L., Magliocchetti, M., and Ratti, C.
Le Strutture Collegiali in Italia, Inghilterra, Francia e Stati Uniti: Analisi Comparativa e Basi Progettuali, Quaderno della Compagnia di San Paolo, 2

(Turin: Compagnia di Sanpaolo, June 1999) 1-133

PAPERS IN REFEREED JOURNALS

Phithakkitnukoon, S., Offenhuber, D., Wolf, M., Lee, D., Biderman, A. and Ratti, C.

Tracking Trash, IEEE Pervasive Computing, 12(2), (April - June 2013) 38-48

Nabian, N., Offenhuber, D., Vanky, A. and Ratti, C.

Data Dimension: Accessing Urban Data and Making It Accessible, Proceedings of the ICE - Urban Design and Planning, 166 (1), (February 2013) 60-75

Calabrese, F., Diao, M., Lorenzo, G., Ferreira, J. and Ratti, C.

Understanding Individual Mobility Patterns from Urban Sensing Data: A Mobile Phone Trace Example, Transportation Research Part C: Emerging Technologies, 26, (January 2013) 301-313

Martani, C., Lee, D., Robinson, P., Britter, R. and Ratti, C.
ENERNET: Studying the Dynamic Relationship between Building Occupancy and Energy Consumption, Energy and Buildings, 47, (April 2012) 584-591

Offenhuber, D., Lee, D., Wolf, M. I., Phithakkitnukoon, S., Biderman, A., and Ratti, C.

Putting Matter in Place: Tradeoffs between Recycling and Distance in Planning for Waste Disposal, Journal of the American Planning Association, 78(2), (2012) 173-196

Di Lorenzo, G., Reades, J., Calabrese, F., and Ratti, C.

Predicting Personal Mobility with Individual and Group Travel Histories, Environment and Planning B: Planning and Design, 39(5) (2012) 838-857

Phithakkitnukoon, S. and Ratti, C.

Inferring Asymmetry of Inhabitant Flow Using Call Detail Records, Journal of Advances in Information Technology, 2(4), (November 2011) 239-249

Calabrese, F., Di Lorenzo, G., Liu, L., and Ratti, C.

Estimating Origin-Destination Flows Using Opportunistically Collected Mobile Phone Location Data from One Million Users in Boston Metropolitan Area, IEEE Pervasive Computing, 10(4), (October - December 2011) 36-44

Calabrese, F., Smoreda Z., Blondel V.D., and Ratti, C.
Interplay between Telecommunications and Face-to-Face Interactions - A Study Using Mobile Phone Data, **PloS ONE**, **6(7)** (July 2011) 1-6

Boustani, A., Girod, L., Offenhuber, D., Britter, R., Wolf, M., Lee, D., Miles, S., Biderman, A. and Ratti, C.
Investigation of the Waste-Removal Chain through Pervasive Computing, **IBM Journal of Research and Development**, **55(1.2)**, (January - March 2011) 11:1-11:11

Quercia, D., DiLorenzo, G., Calabrese, F. and Ratti, C.
Mobile Phones and Outdoor Advertising: Measurable Advertising, **IEEE Pervasive Computing**, **10(2)**, (2011) 28-36

Calabrese, F., Ratti, C., M. Colonna, Lovisolò, P. and Parata, D.
Real-Time Urban Monitoring Using Cell Phones: A Case Study in Rome, **IEEE Transactions on Intelligent Transportation Systems**, **12(1)**, (2011) 141-151

Ratti, C., S. Sobolevsky, Calabrese, F., Andris, C., Reades, J., Martino, M., Claxton, R. and Strogatz, S.H.
Redrawing the Map of Great Britain from a Network of Human Interactions, **PloS ONE**, **5(12)** (December 2010) 1-6

Liu, L. Andris, C. and Ratti, C,
Uncovering Cabdrivers' Behaviour Patterns from their Digital Traces, **Computers, Environment and Urban Systems**, **34(6)** (November 2010) 541-548

Solazzo, E., Dudek, A., Aquilina, N., Di Sabatino, S. and Britter, R.
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Di Sabatino, S., Leo, L.S., Cataldo, R., Ratti, C., and Britter, R.
Construction of Digital Elevation Models for a Southern European City and a Comparative Morphological Analysis with Respect to Northern European and North American Cities, **Journal of Applied Meteorology and Climatology**, **49 (7)**, (July 2010) 1377-1396

Calabrese, F., Reades, J. and Ratti, C.,
Eigenplaces: Segmenting Space through Digital Signatures, **IEEE Pervasive Computing**, **9(1)**, (January - March 2010) 78-84

Sevtsuk, A. and Ratti, C.
Does Urban Mobility Have a Daily Routine? Learning from Aggregate Data of Mobile Networks, **Journal of Urban Technology**, **17(1)**, (2010) 41-60

Phithakkitnukoon, S. and Ratti, C.
A Recent-Pattern Biased Dimension-Reduction Framework for Time Series Data, **Journal of Advances in Information Technology**, **1(4)**, (2010) 168-180

Krings, G., Calabrese, F., Ratti, C., and Blondel, V.D.
Urban Gravity: A Model for Inter-City Telecommunication Flows, **Journal of Statistical Mechanics: Theory and Experiment**, **(7)** (July 2009) 1-8

Reades, J., Calabrese, F., and Ratti, C.
Eigenplaces: Analyzing Cities Using the Space-Time Structure of the Mobile Phone Network, **Environment and Planning B: Planning and Design**, **36(5)**, (January 2009) 824-836

Morello, E. and Ratti, C.
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Morello, E. and Ratti, C.
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Girardin, F., Calabrese, F., DalFiore, F., Ratti, C., and Blat, J.
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Wikicity: Real-Time Urban Environments, **IEEE Pervasive Computing**, **6(3)**, (July - September 2007) 52-53

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Calabrese, F., and Ratti, C.
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Ratti, C., Di Sabatino, S. and Britter, R.
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