

# carlo ratti

carlo at *carloratti* dot *com*

## current

**Associate Professor of the Practice** and **Director**, *senseable* city laboratory, MIT, Cambridge MA, USA

**Director**, MIT Italy Program, International Science and Technology Initiatives, MIT, Cambridge MA, USA

**Partner**, carlorattiassociati - walter nicolino & carlo ratti, architecture design office, Turin, Italy

## education

2001-02 Fulbright Senior Scholar at MIT, Tangible Media Group, Media Lab, Cambridge MA, USA

1998-01 PhD in Architecture, The Martin Centre, University of Cambridge, Cambridge, UK

1995-96 MPhil in Environmental Design in Architecture, University of Cambridge, Cambridge, UK

1989-95 MSc Degree (*Laurea*) cum laude in Engineering at the Politecnico di Torino, Turin, Italy

1989-95 MSc Degree (*Diplôme*) at Ecole Nationale des Ponts et Chaussées, Paris, France

1988-89 High school degree with science concentration at Liceo Segrè, Turin, Italy (grade 60/60)

## professional

1999-current Member of the Italian Institute of Chartered Engineers, registration number 7889Y

1998-current Architects Registration Board ARB (United Kingdom), registration number 62794A

1996-current Ingénieur de l'Ecole des Ponts et Chaussées (France), government decree 19 January 1996

## languages

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

## 001 scientific publications

Over one hundred scientific publications, including books and articles in peer-reviewed journals of planning, engineering and science; patents related to work carried out in Boston and Turin

## 002 non scientific articles

Articles and editorials published in the architecture magazines *Domus* and *Casabella* and the top Italian newspapers *La Stampa* and *Il Sole 24 Ore*; monthly column on design in *Ventiquattro* magazine

## 003 design work

Architectural design work including the prize-winning DWP at the World Expo 2008 in Zaragoza; 1,000 tsunami-resistant houses in Sri Lanka; extension to the Trussardi fashion house in Milan

## 004 exhibitions

Exhibitions at Graz Kunsthaus (2005); Ars Electronica (2006); Venice Biennale (2004, 2006, 2008); World Expo in Zaragoza (2008); MoMA (2008); Design Museum in Barcelona (2008); and others

## 005 keynote addresses

Invited keynotes at venues including Metropolis Congress in Sydney (2008); World Economic Forum in Davos (2009); DLD in Munich (2009); LIFT conference in Geneva (2009)

## 006 university teaching

Classes and workshops at various universities, including Politecnico di Torino; Ecole Nationale des Ponts et Chaussées; Ecole d'Architecture de Marne la Vallée; Harvard University and MIT

## 007 reviews of work

500 reviews of work in media including the FT, NY Times, Le Monde, Economist, TIME, Esquire, CNN, BBC, RAI; design magazines including *Domus*, *Metropolis*, *AR*, *FRAME*, *Abitare*, *Casabella*

## 008 awards

Awards, including TIME Magazine's Best Invention of the Year 2007; Esquire's Best and Brightest 2008; Queensland Government's Innovator in Residence 2009; Membership of Design Council of Italy

## 009 civic projects

Civic advisory projects, including the Progetto Collegium for the reform of European universities and the Comitato Valdo Fusi, a civic group promoting architectural change in the city of Turin, Italy



# 001 scientific publications

## articles

Morello, E. & Ratti, C. (2009) A Digital Image of the City: 3-D Isovists and a Tribute to Kevin Lynch. *Environment and Planning B*, accepted for publication.

Morello, E. & Ratti, C. (2009) Sunscapes: 'Solar Envelopes' and the Analysis of Urban DEMs. *Computers, Environment and Urban System*, accepted for publication.

Reades, J., Calabrese, F. & Ratti, C. (2009) Eigenplaces: Analyzing Cities Using the Space-Time Structure of the Mobile Phone Network. *Environment and Planning B*, accepted for publication.

Sevtsuk, A. & Ratti, C. (2009) Explorations into Urban Mobility Patterns. *Journal of Urban Technologies*, pending.

Girardin, F., Blat, J., Calabrese, F., Dal Fiore, F. & Ratti, C. (2008) Digital Footprinting: Uncovering Tourists with User-Generated Content. *IEEE Pervasive Computing*, October/November 2008, pp. 78-85.

Pulselli, R. M., Romano, P., Ratti, C. & Tiezzi, E. (2008) Computing Urban Mobile Landscapes through Monitoring Population Density Based on Cell-Phone Chatting. *International Journal of Design & Nature and Ecodynamics*, 3, 2, pp. 121-134.

Calabrese, F., Kloeckl, K. & Ratti, C. (2007) Wikicity: Connecting the Tangible and the Virtual Realm of a City. *Geoinformatics*, 10, 8, pp. 42-45.

Calabrese, F., Kloeckl, K. & Ratti, C. (2007) Wikicity: Real-Time Urban Environments. *IEEE Pervasive Computing*, 6, 3, pp. 52-53.

Girardin, F., Dal Fiore, F., Ratti, C. & Blat, J. (2007) Leveraging Explicitly Disclosed Location Information to Understand Tourist Dynamics: A Case Study. *Journal of Location Based Services*, 2, 1, pp. 41-56.

Ratti, C. & Richens, P. (2007) Raster Analysis of Urban Form. *Urban Planning International*.

Reades, J., Calabrese, F., Sevtsuk, A. & Ratti, C. (2007) Cellular Census: Explorations in Urban Data Collection. *IEEE Pervasive Computing*, 6, 3, pp. 30-38.

Calabrese, F. & Ratti, C. (2006) Real Time Rome. *Networks and Communication Studies - Official Journal of the IGU's Geography of Information Society Commission*, 20, 3&4, pp. 247-258.

Pulselli, R.M., Ratti, C. & Tiezzi, E. (2006) City out of Chaos: Social Patterns and Organization in Urban Systems. *International Journal of Ecodynamics*, 1, 2, pp. 125-134.

Ratti, C., Pulselli, R.M., Williams, S. & Frenchman, D. (2006) Mobile Landscapes: Using Location Data from Cell Phones for Urban Analysis. *Environment and Planning B*, 33, 5, pp. 727-748.

Mitasova, H., L., L. Mitas, Ratti, C., Ishii, H. & Harmon, R. (2005) Real-Time Human Interaction with Landscape Models Using a Tangible Geospatial Modeling Environment. *IEEE Computer and Graphics*, 26, 4, pp. 33-41.

Ratti, C. (2005) The Lineage of the Line: Space Syntax Parameters from the Analysis of Urban DEMs. *Environment and Planning B - Planning and Design*, 32, pp. 547-566.

Ratti, C., Baker, N. & Steemers, K. (2005) Energy Consumption and Urban Texture. *Energy and Buildings*, 37:7, pp. 762-776.

Ratti, C., Di Sabatino, S. & Britter, R. (2005) Urban Texture Analysis with Image Processing Techniques: Winds and Dispersion. *Theoretical and Applied Climatology*, 84, 1-3, pp. 77-90.

Hillier, B. & Penn, A. (2004) Rejoinder to Carlo Ratti. *Environment and Planning B - Planning and Design*, 31, pp. 501-511.

Ishii, H., Biderman, A. & Ratti, C. (2004) Continuous Tangible Interfaces: Bringing Clay and Sand into Digital Design. *BT Journal*, 22, 4, pp. 287-299.

Ratti, C. & Richens, P. (2004) Raster Analysis of Urban Form. *Environment and Planning B: Planning and Design*, 31, pp. 297-309.

Ratti, C. (2004) Rejoinder to Hillier and Penn. *Environment and Planning B - Planning and Design*, 31, pp. 513-516.

Ratti, C. (2004) Space Syntax: Some Inconsistencies. *Environment and Planning B - Planning and Design*, 31, pp. 487-499.

Ratti, C., Wang, Y., Ishii, H., Piper, B. & Frenchman, D. (2004) Tangible User Interfaces (TUIs): A Novel Paradigm for GIS. *TGIS Transactions in GIS*, 8, 4, pp. 407-421.

Ratti, C., Baker, N. & Steemers, K. (2003) Urban Infoscapes: New Tools to Inform City Design and Planning. *ARQ - Architectural Research Quarterly*, 7, 1, pp. 63-74.

Ratti, C., Raydan, D. & Steemers, K. (2003) Building Form and Environmental Performance: Archetypes, Analysis and an Arid Climate. *Energy and Buildings*, 35:1, 49-59, pp.

Ratti, C., Sabatino, S. Di & Britter, R. (2002) Analysis of 3-D Urban Databases with Respect to Air Pollution Dispersion for a Number of European and American Cities. *Focus*, 2, 5, pp. 459-469.

Baker, N. & Ratti, C. (2000) Simplified Urban Climate Models from Medium-Scale Morphological Parameters. *World Meteorological Organisation WMO/TD, 1026, Selected Papers from the International Conference in Urban Climatology, ICUC '99*, pp.

Steemers, K., Baker, N., Crowther, D., Dubiel, J., Nikolopoulou, M. & Ratti, C. (1997) City Texture and Microclimate. *Urban Design Studies*, 3, pp. 25-50.

# 001 scientific publications

## book chapters

Calabrese, F., Kloeckl, K. & Ratti, C. (2008) Wikicity: Real-Time Location-Sensitive Tools for the City. IN Foth, M. (Ed.) Handbook of Research on Urban Informatics: The Practice and Promise of the Real-Time City. Hershey PA, IGI Global.

Dal Fiore, F., Beinat, E. & Ratti, C. (2008) Do Mobile Users Move Differently? Exploring the Spatial Implications of Ubiquitous Connectivity at MIT Campus. IN Car, A., Griesebner, G. & Strobl, J. (Eds.) Geospatial Crossroads @ Gi\_Forum '08. Heidelberg, Wichmann.

Sevtsuk, A., Huang, S., Calabrese, F. & Ratti, C. (2008) Mapping the MIT Campus in Real Time Using Wifi. IN Foth, M. (Ed.) Handbook of Research on Urban Informatics: The Practice and Promise of the Real-Time City. Hershey PA, IGI Global.

Morello, E. & Ratti, C. (2007) Raster Cities: Image Processing Techniques for Environmental Urban Analysis. IN Thwaites, K., Porta, S. & Romice, O. (Eds.) Urban Sustainability through Environmental Design. London, Spon.

Ratti, C. & Berry, D. (2007) Sense of the City: Wireless and the Emergence of Real-Time Urban Systems. IN Châtelet, V. (Ed.) Interactive Cities. Orléans, Editions HYX.

Ratti, C. (2007) La Città in Tempo Reale. IN Bertoldini, M. (Ed.) La Cultura Politecnica. Milano, Bruno Mondadori.

Ratti, C., Sevtsuk, A., Huang, S. & Pailer, R. (2007) Mobile Landscapes: Graz in Real Time. IN Gartner, G., Cartwright, W. & Peterson, M.P. (Eds.) Location Based Services and Telecartography. Heidelberg, Springer.

Sevtsuk, A. & Ratti, C. (2007) Experiments in Urban Mobility Analysis in Rome Using Mobile Phone Data. IN J., Schaick (Ed.) Urbanism on Track. Delft, Delft University Press.

Raydan, D., Ratti, C. & Steemers, K. (2005) Courtyards: A Bioclimatic Form? IN Edwards B., Sibley M., Land P., Hakmi M., Petruccioli A. (Ed.) Courtyard Housing: Past, Present and Future. London, Taylor & Francis.

Frisa, A. & Ratti, C. (2003) Progettare La Città: Come? IN Detragiache, A. (Ed.) Dalla Città Diffusa Alla Città Diramata. Milano, Franco Angeli.

## conference papers

B., Mittlboeck, M., Girardin, F., Britter, R. & Ratti, C. (2009) Real-Time Geo-Awareness - Sensor Data Integration for Environmental Monitoring in the City. IEEE International Conference on Advanced Geographic Information Systems & Web Services - GEOWS2009, Cancun, Mexico, 1-7 February 2009.

Carneiro, C., Morello, E., Ratti, C. & Golay, F. (2008) Solar Radiation over the Urban Texture: Lidar Data and Image Processing Techniques for Environmental Analysis at City Scale. Proceedings of the 3D Geoinfo Conference, Seoul, 13-14 November 2008.

Resch, B., Calabrese, F., Biderman, A. & Ratti, C. (2008) An Approach Towards Real-Time Data Exchange Platform System Architecture. Proceedings of the 2008 Sixth Annual IEEE International Conference on Pervasive Computing and Communications, Hong Kong, 17-21 March 2008.

Calabrese, F., Kloeckl, K. & Ratti, C. (2007) Wikicity: Real-Time Location-Sensitive Tools for the City. CUPUM 07 - 10th International Conference on Computers in Urban Planning and Urban Management, Iguassu Falls, 11-13 July 2007.

Calabrese, F., Kloeckl, K. & Ratti, C. (2007) Wikicity: Real-Time Location-Sensitive Tools for the City. Proceedings of the Workshop Digital Cities 5: Urban Informatics, Locative Media and Mobile Technology in Inner-City Developments, East Lansing MI, 28-30 June 2007.

Girardin, F., Dal Fiore, F., Blat, J. & Ratti, C. (2007) Understanding of Tourist Dynamics from Explicitly Disclosed Location Information. The 4th International Symposium on LBS & TeleCartography, Hong Kong, 8-10 November 2007.

Huang, S., Proulx, F. & Ratti, C. (2007) iFIND: A Peer-to-Peer Application for Real-Time Location Monitoring on the MIT Campus. Proceedings of the CUPUM 07 - 10th International Conference on Computers in Urban Planning and Urban Management, Iguassu Falls, 11-13 July 2007.

Jull, M. & Ratti, C. (2007) Urban Ritual in Rome: Characterizing the City with High-Resolution Cell Phone Data. Proceedings of Imaging the City - SIG CHI 2007 Workshop, San Jose, 28 April - 3 May 2007.

Morello, E. & Ratti, C. (2007) A Digital Image of the City: Kevin Lynch Revisited. Proceedings of the Second ICA Workshop on Geospatial Analysis and Modeling - Spatial Structure and Dynamics of Urban Environments, Athens GA, 12-13 July 2007.

Pulselli, R.M., Pulselli, F.M., Ratti, C. & Tiezzi, E. (2007) Ecosystemic Approach to City: Exploiting Mobile Technologies for Monitoring Social Dynamics. Proceedings of Eco Summit 2007, Beijing, 22-27 May 2007.

Rojas, F., Calabrese, F., Dal Fiore, F., Krishnan, S. & Ratti, C. (2007) Real Time Rome. Urban\_Trans\_Formation. Proceedings of the Holcim Forum for Sustainable Construction, Shanghai, 18-21 April 2007.

Sevtsuk, A., Huang, S., Calabrese, F. & Ratti, C. (2007) Mapping the MIT Campus in Real Time Using Wifi. Proceedings of the Workshop Digital Cities 5: Urban Informatics, Locative Media and Mobile Technology in Inner-City Developments, East Lansing MI, 28-30 June 2007.

Chen, E., Ho, E., Jallad, N., Lam, R., Lee, J., Zhou, Y., Re, D. Del, Berrios, Ö., Nicolino, W. & Ratti, C. (2005) Resettlement or Resilience? The Tsunami-Safe(R) Project. Proceedings of the International Symposium Disaster Reduction on Coasts, Melbourne, 14-16 November 2005.

Morello, E. & Ratti, C. (2005) 21st Century Milan: Using New Image Processing Techniques to Assess the Environmental Quality of the Milan Fair Masterplan. Proceedings of the International Conference on Passive and Low Energy Architecture PLEA 2005, Beirut, 13-16 November 2005.

Pulselli, R.M., Pulselli, F.M., Ratti, C. & E., Tiezzi (2005) Dissipative Structures for Understanding Cities: Resource Flows and Mobility Patterns. Proceedings of the 1st International Conference on Built Environment Complexity, Liverpool, UK, 11-14 September 2005.

Pulselli, R.M., Pulselli, F.M., Ratti, C. & Tiezzi, E. (2005) Dynamics and Evolution of Urban Patterns: The Evidence of the Mobile Landscape Project. Proceedings of Ecosud 2005 Fifth International Conference on Ecosystems and Sustainable Development, Cadiz, 3-5 May 2005.

## 001 scientific publications

Ratti, C. & Morello, E. (2005) Sunscapes: Extending the 'Solar Envelopes' Concept through 'Iso-Solar Surfaces'. Proceedings of the International Conference on Passive and Low Energy Architecture PLEA 2005, Beirut, 13-16 November 2005.

Ratti, C. (2005) Suggestions for Developments in Space Syntax. Proceedings of the 5th Space Syntax Symposium, Delft, 13-17 June 2005.

Ratti, C., Sevtsuk, A., Huang, S. & Pailer, R. (2005) Mobile Landscapes: Graz in Real Time. Proceedings of the 3rd Symposium on LBS & TeleCartography, Vienna, Austria, 28-30 November 2005.

Sevtsuk, A. & Ratti, C. (2005) Ispots. How Wireless Technology Is Changing Life on the MIT Campus. Proceedings of CUPUM 05: The Ninth International Conference on Computers in Urban Planning and Urban Management, London, 29 June - 1 July 2005.

Ratti, C. & Mitsova, H. (2004) Tangible GIS: New Human-Computer Interfaces for Exploring Landscape. Proceedings of the 32nd International Geological Congress, Florence, 20-28 August 2004.

Ratti, C., Biderman, A., Piper, B., Wang, Y. & Ishii, H. (2004) Phoxel-Space: An Interface for Exploring Volumetric Data with Physical Voxels. Proceedings of DIS-CHI 2004, Cambridge, MA, 1-4 August 2004.

Piper, B., Ratti, C. & Ishii, H. (2002) Illuminating Clay: A 3-D Tangible Interface for Landscape Analysis. Proceedings of the Conference on Computing Systems (ACM-CHI 2002), Minneapolis MN, 20-25 April 2002.

Brown, M.J., Burian, S.J., Linger, S.P., Velugubantla, S.P. & Ratti, C. (2002) An Overview of Building Morphological Characteristics Derived from 3-D Building Databases. Proceedings of the Fourth Symposium on the Urban Environment, Norfolk VA, 20-24 May 2002.

Piper, B., Ratti, C. & Ishii, H. (2002) Illuminating Clay: A Tangible Interface with Potential Grass Applications. Proceedings of the open-source GIS - GRASS users conference, Trento, 11-13 September 2002.

Sabatino, S. Di, Ratti, C. & Britter, R. (2002) Modelling the Urban Flow Field and Pollution Dispersion Using Digital Elevation Models. Proceedings of the Fourth Symposium on the Urban Environment, Norfolk VA, 20-24 May 2002.

Brown, M., Grimmond, S. & Ratti, C. (2001) Comparison of Methodologies for Computing Sky View Factor in Urban Environments. Proceedings of the International Symposium on Environmental Hydraulics, Tempe AZ, 5-8 December 2001.

Frisa, A. & Ratti, C. (2001) Progettare La Città: Come? Proceedings of the Conference Dalla città diffusa alla città diramata, Turin, 15-16 November 2001.

Ratti, C., Caton, F., Sabatino, S. Di & Britter, R. (2000) Morphological Parameters for Urban Dispersion Models. Proceedings of the International Conference on Passive and Low Energy Architecture PLEA 2000, Cambridge, UK, 2-5 July 2000.

Ratti, C., Robinson, D., Baker, N. & Steemers, K. (2000) Lt Urban: The Energy Modelling of Urban Form. Proceedings of the International Conference on Passive and Low Energy Architecture PLEA 2000, Cambridge, UK, 2-5 July 2000.

Ratti, C., Sabatino, S. Di, Caton, F. & Britter, R. (2000) Morphological Parameters for Urban Dispersion Models. Proceedings of the Third Symposium on the Urban Environment (American Meteorological Society), Davis CA, 14-18 August 2000.

Raydan, D., Ratti, C. & Steemers, K. (2000) Courtyards: A Bioclimatic Form? Proceedings of the Conference on Courtyard Housing in Arab cities: Directions for the 21st century, Homs, 11-13 November 2000.

Baker, N. & Ratti, C. (1999) Simplified Urban Climate Models from Medium-Scale Morphological Parameters. Proceedings of the International Conference in Urban Climatology - ICUC '99 Sydney, 8-12 November 1999.

Ratti, C. & Richens, P. (1999) Urban Texture Analysis with Image Processing Techniques. Computers in Building: Proceedings of the CAADFutures '99 Conference, Atlanta, 7-8 June 1999.

Steemers, K. & Ratti, C. (1999) Informing Urban Bioclimatic Design. Proceedings of the Architecture and Engineering Conference,

European Association for Architectural Education (EAAE), Plymouth, 4-6 February 1999.

Vivo, F. De, Einaudi, L., Magliocchetti, M. & Ratti, C. (1999) Le Strutture Collegiali in Italia, Inghilterra, Francia E Stati Uniti: Analisi Comparativa E Basi Progettuali, Turin.

Ratti, C., Baker, N. & Steemers, K. (1998) Daylighting E Il Modello Di Porosità Urbana. Proceedings of the conference Il Progetto di Architettura - Convegno Internazionale di Studi, Rome, 25-27 May 1998.

# 001 scientific publications

## other publications

Dal Fiore, F., Britter, R., Vaccari, A. & Ratti, C. (2008) Wikicity: Can a City Perform as a Real-Time Control System? Focus 76 Ideas de Ciudad, September 2008, pp. 26-31.

Ratti, C. & Calabrese, F. (2008) Nolli 2.0. Vennice Biennale, Un-Eternal-City.

Calabrese, F., Colonna, M., Lovisolo, P., Parata, D. & Ratti, C. (2007) Real-Time Urban Monitoring Using Cellular Phones: A Case-Study in Rome. MIT SENSEable City Laboratory Working Papers. Boston.

Pulselli, R.M., Romano, P., Ratti, C. & E., Tiezzi (2006) The Ecology of the Urban Landscape and the Chemistry of the City. *Abitare la Terra*, 16, pp. 30-35.

Berry, D., Mattiello, A., Morello, E., Sevtsuk, A. & Ratti, C. (2005) Mobile Landscapes: Graz in Real-Time. IN De Michelis, M. (Ed.) Catalogue of the M-City European Cityscapes Exhibition at the Graz Kunsthaus. Cologne, Verlag der Buchhandlung Walther Koenig.

Pulselli, R.M. & Ratti, C. (2005) Mobile Landscapes. *Equilibri*, 9, 1, pp. 147-155.

Puri Purini, N., Boralevi, T. & Ratti, C. (2005) La Città Sostenibile. *Aspenia*, 28, pp. 378-383.

Riccardo, M. Di, Pulselli, E. & Ratti, C. (2005) Geolocalizzazione: Mobile Landscapes. *Equilibri*, 01, pp. 145-153.

Goldman, J. & Ratti, C. (2004) Beijing: La Città Perduta? *Aspenia*, 19.

Goldman, J. & Ratti, C. (2004) Beijing: The Lost City? *Aspenia*, selected papers from *Aspenia* translated into English.

Ratti, C. (2003) Instant City (Shenzhen, China). *Aspenia*, pp. 209-215.

Ratti, C. (2003) La Città Istantanea (Shenzhen, China). *Aspenia*, 19, pp. 296-303.

Seitinger, S. & Ratti, C. (2002) Cannes Reloaded. *Cluster*, 2, special issue on wireless, pp. 20-23.

Stemers, K., Baker, M., Dubiel, J. & Ratti, C. (1999) Urban Texture and Microclimate Studies. IN Sartogo, F. (Ed.) *Saline Ostia Antica*. Firenze, Alinea.

Stevens, Q. & Ratti, C. (1999) Urban Design Project for the Town of Kriva Palanka (Republic of Macedonia). IN Korobar, V. (Ed.) *Urban Space Design*. Skopje, Skopje University SS Cyril and Methodius Press.

Stemers, K. & Ratti, C. (1998) Nuovi Strumenti Per La Progettazione Bioclimatica Urbana. *Housing*, 9, pp. 98-100.

Stemers, K., Baker, N., Crowther, D., Dubiel, J., Nikolopoulou, M. & Ratti, C. (1997) Towards Zero Emission Urban Development. EU Commission Reports. Brussels.

## books

Ratti, C. & Nicolino, W. (Eds.) (2008) *Digital Water Pavilion*, Milan, Electa.

Rojas, F., Valeri, C., Caldesi, Kloeckl, K. & Ratti, C. (Eds.) (2008) *New York Talk Exchange: A Project for Moma*, Cambridge MA, SA+P Press.

Ratti, C. and Dorsey, T. (Eds.) (2007) *Inside the Sponge*, Catalogue of the Exhibition at the Canadian Center for Architecture, Montreal, Canadian Center for Architecture.

# 001 scientific publications

## patents

M.I.T. ID: 11313, Provisional Patent Filed with USPTO - United States Patent and Trademark Office on 10/8/2004, Non-Provisional Patent Application filed in October 2005, Title: "Programmable window: a large-scale transparent electronic display", Inventors: Martin Ramos, Assaf Biderman, Carlo Ratti, Assignee: Massachusetts Institute of Technology.

Docket No. D-21, M.I.T. ID: 10274T, This application is a Non-Provisional of U.S. Patent Application Serial No. 60/463,357 filed 4/17/2003, Title: "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, Assignee: Massachusetts Institute of Technology.

Docket No. D-20, M.I.T. ID: 9771T, This application is a Non-Provisional of U.S. Patent Application Serial No. 60/463,273 filed 4/16/2003, Title: "A three-dimensional tangible interface for interacting with spatial-temporal data using a laser scanner", Inventors: Ben Piper; Carlo Ratti; Hiroshii Ishii, Assignee: Massachusetts Institute of Technology.

M.I.T. ID: 10275T, This application is a Non-Provisional of U.S. Patent Application Serial No. 60/463,273 filed 4/16/2003 and Provisional U.S. Patent Application Serial No. 60/463,357 filed 4/17/2003, Title: "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, Assignee: Massachusetts Institute of Technology.

## 002 non scientific articles

Architetto Volante, monthly column, Ventiquattro, since 1 June 2008.

Cara Engadina, che Botta!, Carlo Ratti, Il Sole-24 Ore, 30 March 2008.

Disegnate il memoriale di Bush, Carlo Ratti, Il Sole-24 Ore, 9 March 2008.

Professionisti dell'instabile, Carlo Ratti, Ventiquattro, April 2007.

Cittadini in piazza per la piazza, Carlo Ratti, Il Sole-24 Ore, 8 October 2006.

La mappa di Roma a suon di telefonini, Carlo Ratti, Il Sole-24 Ore, 10 September 2006.

Cavalcavia senz'arte né parte, Carlo Ratti, Il Sole 24 Ore, 28 May 2006.

La ciudad en tiempo real, Carlo Ratti, Pasajes de Arquitectura y Critica, November 2005.

Profumo di metropolitana, Carlo Ratti, Il Sole-24 Ore, 30 October 2005.

Territori in tempo reale, Il Sole-24 Ore, 25 September 2005.

I ferri del mestiere, Carlo Ratti, Il Giornale dell'Architettura, September 2005.

Triennale di Milano and Politecnico di Milano Open Lectures, Triennale di Milano, June 2005.

Storia di matite trasferelli e modelli 3d, Carlo Ratti, Il Sole-24 Ore, 22 May 2005.

Brillante destino da dimenticato - Carlo Mollino, Carlo Ratti, Il Sole-24 Ore, 1 May 2005.

The topography of exchanging ideas, Carlo Ratti, Abitare, April 2005.

Uffici a forma di wi-fi, Carlo Ratti, Il Sole-24 Ore, 20 February 2005.

Dal loft al soft: in Italia un'occasione mancata, Carlo Ratti, Il Sole-24 Ore, 5 December 2004.

Quando il cemento si fa lieve ed elegante, Carlo Ratti, La Stampa, 1 December 2004.

Il ninfeo dei cellulari, Carlo Ratti, Il Sole-24 Ore, 14 November 2004.

Dalla stasi ci salva il salotto, Carlo Ratti, Il Sole-24 Ore, 12 September 2004.

Dalla stasi ci salva il salotto, Carlo Ratti, Il Sole-24 Ore, 12 September 2004.

Al lavoro nell'ufficio diffuso', Carlo Ratti, La Stampa, 21 April 2004.

Acchiappate il creativo Michael, Carlo Ratti, Il Sole-24 Ore, 18 April 2004.

La città senza fili, Carlo Ratti, Tam Tam - Torino Internazionale, no. 1/2004.

La forza delle città? E' la foga dei cervelli, Carlo Ratti, La Stampa, 17 March 2004.

L'opera è servita. Ghiacciata, Carlo Ratti, Il Sole-24 Ore, 14 March 2004.

27 febbraio 2007, Torino, Carlo Ratti & Valentina Kalk, Il Sole-24 Ore, 22 February 2004.

Ritorno alla caverna (digitale), Carlo Ratti, Il Sole-24 Ore, 18 January 2004.

La bellezza non abita qui, Carlo Ratti, Repubblica, 13 January 2004.

Non sparate sull'IIT, Carlo Ratti, La Stampa 2 January 2004.

Out of the box - Price, Rossi, Stirling e Matta Clark, Carlo Ratti, Domus 895, December 2003.

The great leap forward, Carlo Ratti, Domus 894, November 2003.

Gare di affidamento, Carlo Ratti, AL Mensile di informazione degli Architetti Lombardi, 10/2003.

Riformare per peggiorare? (editorial), Carlo Ratti, Casabella 714, September 2003.

Il fantasma della qualità, Carlo Ratti, Il Sole-24 Ore, 31 August 2003.

Attorno al Palahockey è tutto OK?, Carlo Ratti, Il Sole-24 Ore, 17 August 2003.

Vedute di un'India museificata, Carlo Ratti, Il Sole-24 Ore, 20 July 2003.

Sembra una scheda perforata il dormitorio di Steven Holl, Carlo Ratti, La Stampa, 23 June 2003.

E se tornassimo al pliocene?, Carlo Ratti, Il Sole-24 Ore, 30 March 2003.

La sottile torre di Libeskind, Carlo Ratti, Il Sole-24 Ore, 2 March 2003.

MIT's new generation, Carlo Ratti, Domus 858, April 2003.

The architecture of economy, Carlo Ratti, Domus 857, March 2003.

Shenzhen, Carlo Ratti, La Stampa, 30 January 2003.

Nudi al concorso, Carlo Ratti, La Stampa, 10 January 2003.

Tra moda e Hi-Tech, Carlo Ratti, La Stampa, 8 January 2003.

Sopra la fabbrica lo scigno dei capolavori, Carlo Ratti, Il Sole-24 Ore, 15 September 2002.

Metropoli sempre in gioco, Carlo Ratti & Michele Bonino, Il Sole-24 Ore, 28 July 2002.

Bello e brutto costano la stessa cifra, Carlo Ratti, Repubblica cronaca di Torino, 4 July 2002.

Olimpiadi piccole piccole, Carlo Ratti, Il Sole-24 Ore, 2 June 2002.

Il design della dolce vita - Gio' Ponti, Carlo Ratti, Il Sole-24 Ore, 12 May 2002.

Casa piovosa casa, Carlo Ratti, La Stampa, 22 April 2002.

L'architetto seduce, Carlo Ratti, Il Sole-24 Ore, 16 December 2001.

## 002 non scientific articles

Il Messico a basso volume, Carlo Ratti, Il Sole-24 Ore, 2 November 2001.

Nanotubi per costruire grattacieli, Carlo Ratti, La Stampa, 9 May 2001.

Foody revolution con gusto, Carlo Ratti, Il Sole-24 Ore, 18 Mars 2001.

Arc-et-Senans - La citta' ideale e' in mezzo alle Saline, Carlo Ratti, Il Sole-24 Ore, 28 January 2001.

Architetti? No grazie, ingegneri, Carlo Ratti, La Stampa, 29 November 2000.

Letter: still on the wrong track, Carlo Ratti, The Guardian, 20 October 2000.

In cantiere una citta' galleggiante, Carlo Ratti, La Stampa, 2 August 2000.

Tecnocrate, poeta e visionario - Buckminster Fuller, Carlo Ratti, La Stampa, 2 August 2000.

Ammortizzatori per ponti ballerini, Carlo Ratti, La Stampa, 5 July 2000.

Persi nel Panthéon della meccanica, Carlo Ratti, Il Sole-24 Ore, 7 May 2000.

Un giro di giostra per il Duemila, Carlo Ratti, La Stampa, 5 January 2000.

Da Oporto le opere di Siza, abitante della solitudine, Carlo Ratti, La Stampa, 24 December 1999.

Citta' 2000, clima d'inferno, Carlo Ratti, La Stampa, 1 December 1999.

Abiteremo dentro un computer?, Carlo Ratti, La Stampa, 1 December 1999.

Nuovi materiali superelastici, Carlo Ratti, La Stampa, 27 October 1999.

The RIBA gives its prize to Barcelona, Carlo Ratti, Domus 817, July/August 1999.

Torino, il ponte della sfida, Carlo Ratti, La Stampa, 21 July 1999

L'architetto? Un cuoco che non offende il palato - Norman Foster, Carlo Ratti, La Stampa, 8 June 1999.

Reichstag all'insegna dell'ecologia, Carlo Ratti, La Stampa, 5 May 1999.

Chandigarh, fifty years later, Carlo Ratti & Anna Frisa, Domus 814, April 1999.

Convegno - Il fossato tra ingegneri e architetti, Carlo Ratti, La Stampa, 10 February 1999.

Città di Le Corbusier o di Utopia - Chandigarh, Carlo Ratti, La Stampa, 3 February 1999.

Telelavoro - E' gia' nata la City of Bits, Carlo Ratti, La Stampa, 13 January 1999.

Supergrattacielo, ma bucato, Carlo Ratti, La Stampa, 25 November 1998.

Ingegnere, mi faccia una bolla di sapone - Millennium Dome, La Stampa, 15 July 1998.

Vieni a sederti in bocca a Mae, Carlo Ratti, La Stampa, 26 May 1997.

## 003 design work

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

M&M's house (Bergamo, 2008): Refurbishment of a medieval palace in the historic district of Bergamo into a high-end residence with extensive use of digital technology

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

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

Trussardi dehors (Milan, 2008): 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'

QSella office (Turin, 2008): 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

We Tube (Turin/Sao Paulo, 2008): A prizewinning installation in the Arrivore Park composed of an asymmetrical arrangement of corten steel cylinders (with Fernando and Humberto Campana)

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

Digital\_minimal (Boston, 2006): Design of the digital\_minimal exhibition at MIT which explores a number of possible future directions in architecture and planning based on our work in Turin and Boston

Puerta Sur Expo 2008 (Zaragoza, 2006): Masterplan for one of the main entrances to Zaragoza's Expo 2008 situated between Carlos Ferrater's train station and Zaha Hadid's new bridge

Tunnel bath (Turin, 2005): 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

Tsunami (Sri-lanka, 2005): Low-tech construction, high-tech design prototype of a house over five times more resistant than previous houses in case of an incoming tsunami

Valpiana (Turin, 2005): 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

Campetto (Alps, Italy, 2005): 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

Cinato Penthouse (Turin, 2005): Refurbishment of a two-story penthouse in Turin using an arrangement of several hundred pieces of laser-cut corten

Unintentional beauty (Turin, 2004): 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)

Alber1 (Ferrara, 2004): Studies for the refurbishment of a 19th century villa and park; incorporates elements from local farms and crop circles

Strip-tease (Jurmala, Latvia, 2004): A cultural center in the resort town of Jurmala, Latvia; won second place in an international design competition in September 2004

MG\_flat (Turin, 2004): 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

Relais Reviglia (Pollenzo, 2003): 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

MG\_garden (Turin, 2003): Conversion of a courtyard surrounded by five- to seven-story buildings into a green space for work and leisure for nearby residents

Pankhasari retreat (India, 2002): A sustainable development on a south facing slope in the Indian Himalayas; built using local materials; high broadband is available to residents (with Michele Bonino)

TAV station (Florence, 2002): Design of the new high speed railway station in Florence as a half-underground translucent box (with Michele Bonino, Daniele Baiotto, Carlos Ferrater)

## 004 exhibitions

Architectural League, New York, exhibition Situated Technologies: Toward the Sentient City, curated by Mark Shepard; video and photo installation Trash\_Track, full credits at <http://senseable.mit.edu> (forthcoming)

Harvard University, exhibition Ecological Urbanism, curated by the Graduate School of Design; video installations Real Time Rome and OpenCycle, full credits at <http://senseable.mit.edu> (forthcoming)

National Science Foundation, exhibition Places & Spaces: Mapping Science; video installation Mobile Landscapes, full credits at <http://senseable.mit.edu> (forthcoming)

Design Museum Barcelona, exhibition Tourism: Spaces of Fiction, curated by Ramon Prat; video installation Los Ojos del Mundo, full credits at <http://senseable.mit.edu> (3 December 2008 - 31 May 2009)

New London Architecture Foundation, Digital Cities: London's Future, curated by Terry Farrell; video and poster installation and The Real Time City, full credits at <http://senseable.mit.edu> (20 November 2008 - 17 January 2009)

Icograda Design Week, Multiverso exhibition, curated by Icograda, installation on Real Time Rome, Wiki City and the Digital Water Pavilion, full credits at <http://www.digitalwaterpavilion.com> (13 October 2008 - 19 October 2008)

Seville International Biennial of Contemporary Art, curated by Peter Weibel and Marie-Ange Brayer; video installation on the Digital Water Pavilion, full credits at <http://www.digitalwaterpavilion.com> (2 October 2008 - 11 January 2009)

International Exhibition Expo 2008 Zaragoza, organized by the Bureau International des Expositions; built Digital Water Pavilion, full credits at <http://www.digitalwaterpavilion.com> (13 June 2008 - onwards)

Turin World Design Capital 2008, Geodesign exhibition, curated by Stefano Boeri; built We Tube, with Fernando and Humberto Campana, full credits at <http://www.carloratti.com> (24 May 2008 - 6 July 2008)

Biennale of Young Italian Architects 2008, exhibition Rizoma in Pontedera; printed media with images of the Digital Water Pavilion, full credits at <http://www.digitalwaterpavilion.com> (23 May 2008 - 30 June 2008)

Milan Design Week (Salone del Mobile); Trussardi dehors, garden and cafe built next to Piazza della Scala in Milan's city center, with Patrick Blanc, full credits at <http://www.carloratti.com> (16 April 2008 - onwards)

MoMA, exhibition Design and The Elastic Mind, curated by Paola Antonelli with Patricia Juncosa; video installation New York Talk Exchange, full credits at <http://senseable.mit.edu> (24 February 24 - 12 May 2008)

MIT Museum, inaugural exhibition of the Mark Epstein Gallery; interactive installation SandScape, in collaboration with the TMG, MIT Media Lab, full credits at <http://senseable.mit.edu> (28 November 2007- 31 January 2009)

Politecnico di Torino, Next Generation exhibition, curated by Luca Barello, Sisto Giriodi, Lorenzo Mamino; printed media with the Tsunami Safe(r) House, full credits at <http://senseable.mit.edu> (30 October 2006 - 14 November 2006)

Ars Electronica Center, Ars Electronica Festival 'Simplicity' 2006, curated by John Maeda; video installation Real Time City, full credits at <http://senseable.mit.edu> (31 August 2006 - 5 September 2006)

Venice Biennale 2006, 10th Architecture Exhibition, directed by Richard Burdett; pavilion with video, prints and other media, full credits at <http://senseable.mit.edu> (10 September 2006 - 19 November 2006)

Canadian Center for Architecture, exhibition Inside the Sponge, curated by Carlo Ratti and Talia Dorsey; prints, videos and other media, full credits at <http://senseable.mit.edu> (10 August 2006 - 19 November 2006)

Wolk Gallery at MIT, digital\_minimal exhibition curated by Carlo Ratti; prints, videos and other media, full credits at <http://senseable.mit.edu> (10 February 2006 - 29 March 2006)

Royal Institute of British Architects, exhibition Compendium: the Work of the University of Cambridge Department of Architecture; prints Mg\_Flat, full credits at <http://www.carloratti.com> (27 January 2006 - 18 February 2006)

MIT Museum, iSPOTS exhibition curated by Carlo Ratti and Andres Sevtsuk; video installation, full credits at <http://senseable.mit.edu> (1 November 2005 - 13 January 2006)

Graz Kunsthaus, exhibition M-City European Cityscapes, curated by Marco De Michelis; Mobile Landscapes project, full credits at <http://senseable.mit.edu> (1 October 2005 - 8 January 2006)

Exhibition with the results of the competition for the next high-speed railway station of Florence, jury chaired by Gae Aulenti; printed media Camerone, full credits at <http://www.carloratti.com> (14 February 2003 - 1 March 2003)

Venice Biennale 2004, exhibition Notizie dall'Interno curated by Mirko Zardini; printed media MG\_Flat, full credits at <http://www.carloratti.com> (12 September 2004 - 7 November 2004)

Ars Electronica Center, Get in Touch exhibition curated by Hiroshi Ishii; interactive installation SandScape, with TMG, MIT Media Lab, full credits at <http://senseable.mit.edu> (1 September 2002 - 24 August 2003)

Promotrice delle Belle Arti, exhibition Designing Craft Europe, curated by Cristina Morozzi; wooded prototype Vertebra, full credits at <http://www.carloratti.com> (27 November 1999 - 19 December 1999)

Exhibition with the results of the European Students' Competition Solar Buildings, jury chaired by Thomas Herzog; printed media Solar Building, full credits at <http://www.carloratti.com>

## 005 keynote addresses

Hibur Lecture at Technion University and MIT, Cambridge, 26 February 2009

Plenary presentation at LIFT 09 Conference, Geneva, 26 February 2009

Presentation at the City Industrial Association, Parma, 24 February 2009

Presentation and workshop at the Architectural Association, London, 20 February 2009

Presentation and Ideas Lab at the World Economic Forum, Davos, 29 January 2009

Lecture at MIT-Portugal, Gulbenkian Foundation, Lisbon, 27 January 2009

Panel on simplicity at DLD 2009 Conference, Munich, 26 January 2009

Lecture at the CENSAM workshop, SMA Program, Singapore, 19 January 2009

Lecture and workshop at the Future Capitals Summit, Abu Dhabi, 13 January 2009

Plenary address at the Metropolis World Congress, Sydney, 26 October 2008

Plenary presentation at the Multiverso Icoграда Design Week Turin, 17 October 2008

Presentation and workshop at the World Economic Forum, Tianjin, 27 September 2008

Plenary address at the FESTARCH International Architecture Festival, Cagliari, 30 May 2008

Presentation at Social Positioning Method SPM 2008, Tartu, 10 March 2008

Keynote, Industrial Liaison Program National meeting, Rome, 30 October 2007

Opening presentation, Next Level Festival, QUT, Brisbane, 26 October 2007

Presentation at the Changing Strategies Symposium, Vienna, 15 October 2007

Plenary presentation at the veDrò Conference and Workshop, Dro, 28 August 2007

Presentation at the School of Architecture, Hawaii University, Hawaii, 20 June 2007

Keynote, Industrial Liaison Program Conference, MIT, Boston, 25 April 2007

Presentation at the Geoware Conference and Workshop, Aarhus, 7 March 2007

Plenary address at the IGP Decaux National Convention, Trieste, 11 November 2006

Keynote, Work Tech Conference at the British Library, London, 7 November 2006

Keynote at the Fondazione Tronchetti Provera, Milan 20 April 2006

Panel on Cities & Information, Social Informatics Fair, Kyoto, 13 September 2005

Lecture at the Milan Triennale, Festa dell'Architettura, Milan, 1 June 2005

Invited presentation, Antoine Picon's course, Harvard GSD, 7 April 2005

Presentation at Tsingua University School of Architecture, Beijing 22 March 2005

Keynote address at the New Century Cities Conference, Boston, 18 January 2005

Lecture at Tsingua University School of Architecture, Beijing 25 June 2004

Lecture at the Center for Advanced Spatial Analysis, UCL, London, 19 May 2004

Plenary presentation at the Politecnico di Milano, Scuola di Dottorato, Milan, 5 May 2004

Workshop at the University of Lecce, di Sabatino's course, 24 November 2003

Keynote at the International Conference in Urban Climatology, Lotz, 1 September 2003

Lecture at the National Conference on university colleges in Italy, Turin, 22 June 1999

Lecture on the collegiate system in Italy (with writer Umberto Eco), Pavia 7 March 1998

## 006 university teaching

2008, Class Ambient Informatics, MIT (with Assaf Biderman, Bill Mitchell, Dennis Frenchman)

2006, Class Digital Zaragoza, MIT (with Bill Mitchell and Dennis Frenchman)

2005, Design workshop, Ecole Nationale des Ponts et Chaussées (with Bernard Vaudeville)

2005, Teaching activity as part of Simmons Hall's Visiting Scholar position, MIT

2004, Class Urban Infoscapas, Harvard University Graduate School of Design

2003, Design workshop, Ecole Nationale des Ponts et Chaussées (with Bernard Vaudeville)

2003, Class Cannes Reloaded, MIT (with Bill Mitchell and Dennis Frenchman)

2002, Design workshop, Ecole Nationale des Ponts et Chaussées (with Bernard Vaudeville)

2001, Design workshop, Ecole Nationale des Ponts et Chaussées (with Bernard Vaudeville)

1998, Structural design studio, Politecnico di Torino (with Alessandro De Stefano)

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## 007 reviews of work

Ring around N.Y.C., National Geographic, March 2009

City gravity, Seed Magazine, January 2009

Steven Strogatz & Carlo Ratti, Julian Dufort, Seed Magazine, December 2008

Esquire Best & Brightest, Esquire Magazine, December 2008

Digital cities, Catalogue of the Digital Cities Exhibition in London, 1 December 2008

Abitare su Facebook, Repubblica D-Casa, 29 November 2008

Facebook app keeps Danish cyclists green and in touch, Keith Barry, Wired, 21 November 2008

From MIT, a quantum leap in bike mechanics, Boston Globe, 16 November 2008

Safe as houses?, Madeleine Johnson, Financial Times, 2 November 2008

Digital Water Pavilion, Casabella Almanacco Architetti Italiani, 1 November 2008

Progettare città con il digitale, Giulia Crivelli, Il Sole 24 Ore, 30 October 2008

How the phone maps our real lives, By Design, ABC Radio, 22 October 2008

Carlo Ratti, Multiverso Catalogue, 17 October 2008

MIT research bringing 'smart bikes' to Denmark, MIT news, 10 October 2008

Tra i dehors ecco quello che fa scuola, Paolo Favole, Il Giornale, 10 October 2008

Analyzing the sponge, Jen Hirsch, Tech Talk, 8 October 2008

Cartografia digitale, Progetto Grafico 12/13, September 2008

Carlo Ratti, Catalogue of the Seville Biennale, 2 October 2008

The rain maker, Rachel Pulfer, Azure, October 2008

Chilectra lanza innovadora plataforma de ciudad, La Segunda on line, 11 September 2008

MG \_Flat, Minimal Book, September 2008

Acqua e sviluppo sostenibile, Roberto Marcatti, Focus, September 2008

Digital Water Pavilion, Building research & information, September-October 2008

Nolli 2.0, Carlo Ratti & Francesco Calabrese, Un-Eternal-City, Venice Biennale, 1 September 2008

Expo 2008, Alessia Gallione, D-Repubblica, 9 August 2008

Il fantasma del flop, Paola del Vecchio, Il Secolo XIX, 8 August 2008

Walls made from liquid pixels, Tracy Staedter, Discovery Channel, 7 August 2008

New York Talk Exchange, MacPeople, 1 August 2008

Digital Water Pavilion, D'Architettura, 1 August 2008

Wiki City, Foco76, August 2008

Zaragoza 2008 agua y sostenibilidad, José Maria Faerna, Diseno Interior, August 2008

Muri d'acqua, ma digitali, William J. Mitchell, La Stampa, 30 July 2008

Digital Minimal, Antoine Picon, Arch'it, 24 July 2008

Cascade d'acqua digitale per l'Expo di Saragozza, Peppe Caridi Live News, 20 July 2008

Il futuro? Vivere in un palazzo d'acqua, Antonella Barina, Il Venerdì di Repubblica, 18 July 2008

Cascade d'acqua digitale per l'Expo di Saragozza, Il Giornale, 18 July 2008

Il Digital Water Pavilion in un libro, Design-Italia, 18 July 2008

Padiglione fatto d'acqua, Gianna Milano, Panorama, 17 July 2008

L'architettura liquida targata Italia all'Expo di Saragozza, Repubblica, 5 July 2008

Interattivo e dinamico il Digital Pavilion di Ratti, Paola Pierotti, Edilizia e Territorio, 30 June 2008

Building made from water, Evelyn Lee, Inhabitat, 26 June 2008

All'Expo di Saragozza due architetti italiani firmano il Digital Water Pavilion, Adn Kronos, 24 June 2008

Digital Water Pavilion Makes A Splash In Spain, Science Daily, 18 June 2008

Digital Water Pavilion at Zaragoza world expo inaugurated, Gizmodo, 17 June 2008

Splash: dopo la società anche l'architettura diventa liquida, Gianluca Salvatori, Nova, 16 June 2008

Saragozza: gli architetti italiani dell'acqua, Luca Papperini, NewsItaliaPress, 16 June 2008

Carlo Ratti: nuestro pabellón sera un manifiesto, Samuel Negrodo, Herald.es, 16 June 2008

Le firme Italiane dell'expo di Saragozza 2008, Roberta Dragone, Edilportale, 16 June 2008

Le firme Italiane dell'expo di Saragozza 2008, Roberta Dragone, Archiportale, 16 June 2008

Expo 2008: architettura digitale scolpita su acqua, Paola del Vecchio, Ansa, 16 June 2008

La cascata dei pixel, Chiara Somajni, Il Sole 24 Ore, 15 June 2008

Zaragoza, destino tecnologico, El Periódico de Aragón, 15 June 2008

A Saragozza apre l'Expo con tecnologia italiana, Michele Calcaterra, Il Sole 24 Ore, 13 June 2008

Zaragoza abre 5 nuevas oficinas de turismo por atender visitantes durante la expo, Soitu.es, 13 June 2008

El Pabellón Digital del Agua se inaugura hoy como escaparate de la Milla Digital, Soitu.es, 12 June 2008

Una cortina de agua in un techo móvil, El Periodico de Aragón, 12 June 2008

## 007 reviews of work

Making a splash: MIT's Digital Water Pavilion opens, Emily Cadman, Building Design, 12 June 2008

Digital Water Pavilion propone a los visitantes jugar con el agua, Europapress, 11 June 2008

El pabellón de paredes de agua digital, El Confidential, 11 June 2008

Agua y tecnología digital, Aragonddigital.es, 11 June 2008

Cellphone data track our migration patterns, Robert Lee Hotz, The Wall Street Journal, 10 June 2008

El pabellón digital extiende sus paredes de agua por primera vez, Heraldo de Aragón, 9 June 2008

Saragozza, design italiano all'Expo, Paola Pierotti, Il Sole 24 Ore, 2 June 2008

Rizoma - Catalogo della Biennale giovani architetti italiani, 1 June 2008

Digital Water Pavilion, Rizoma - Young Italian architects Biennale, June 2008

L'isola dei progetti - Senseable City Lab, Festarch, 30 May 2008

Design Carlo Ratti, un architetto ai confini della disciplina, Euronews, 26 May 2008

Tsunami wave loading on coastal houses, Thusyanthan and Madabhushi, Civil Engineering, May 2008

Architetto mondiale, Paola Ravizza, Illustrato Fiat, May 2008

Carlo Ratti: ascoltare i cittadini, Paola Ravizza, Percorsi, May 2008

Come costruire la città futura, Il Sole 24 Ore, 3 May 2008

Segno urbano parco dell'arrivore, Catalogo mostra Torino Geodesign, 1 May 2008

Un giardino verticale per Trussardi, Il Giorno, 11 April 2008

Il fuori salone trasforma Milano in un superbuffet, Francesca Pagnoncelli, Il Giornale, 11 April 2008

Il giardino segreto, Case da Abitare, 1 April 2008

La costruzione dell'avvenire, Laura Aquili and Ergian Alberg, Il Sole 24 Ore, 27 March 2008

Curtains of water form Expo pavilion walls, Jeff L. Brown, Civil Engineering News, February 2008

Architecture by carlorattiassociati - walter nicolino & carlo ratti, Davide Ferrando, Electa, 1 June 2008

Internet revela los movimientos de los turistas, Michele Catanzaro, El Periodico, 31 March 2008

Caro Salza, voi vecchi incollati alle poltrone, Mario Baudino, La Stampa, 27 March 2008

New York Talk Exchange, Samsung Telecom News, 21 March 2008

Real Time Digital City, Maryanne Demasi, ABC Catalyst, 20 March 2008

Wired to the world, Thomas Wailgum, CIO Magazine, 19 March 2008

Emotional connections, Benjamin Sutherland, Newsweek, 10 March 2008

Muros de agua digitales, Ursula Ruiz, Diseno Decoracion, 1 March 2008

New MoMa exhibit turns NYC communications into art, Thomas Houston, Switched, 29 February 2008

Snapshot of New York communications links to rest of world, International Herald Tribune, 28 February 2008

MIT creates picture of NY communications, Verena Dobnik, Associated Press, 28 February 2008

AT&T-supported exhibit explores flow of communications, Fox Business, 25 February 2008

Città al telefono: la globalizzazione in diretta (e in mostra), Panorama, 24 February 2008

Reach out and touch art, Amy Zimmer, Metro, 22 February 2008

New York and the vanguard of digital design, Sewell Chan, New York Times, 22 February 2008

Real Time Rome, Catalogue of the MoMA exhibition 'Design and the Elastic Mind', 20 February 2008

MoMA exhibit features MIT telecom research, K.C. Jones, Information Week, 20 February 2008

Mapping New York City's telecommunications traffic, Thomas Wailgum, CIO, 20 February 2008

Mapping New Yorkers' global ties by phone, Stefanie Olsen, CNet, 19 February 2008

Duomo e Ponte Vecchio, gli scatti dei turisti, La Nazione, 12 February 2008

City pulse captured for real-time tripping, Tracy Staedter, Discovery News, 11 February 2008

Saragozza, nuova lezione spagnola, Michele Calcaterra, Sole, 10 February 2008

GAAS - government-as-a-service, Rewiring Asia, 6 February 2008

carlo ratti associati, La Stampa Specchio, 26 January 2008

MIT project aggregates cell phone data, Jessica Jones, Government Technology, 14 January 2008

The social call, Valentina Croci, AD, 1 January 2008

SENSEable City Lab, Panorama, 4 December 2007

Citizen mapping, Cathryn Drake, Metropolis, 1 December 2007

La risorsa è nell'acqua, Michele Bonino & Francesca Comotti, Giornale dell'Architettura, 1 December 2007

A new way to navigate the city, Megan Williams, Marketplace, 27 November 2007

Digital Water Pavilion, BBC News, 19 November 2007

Water works, Time Magazine, 12 November 2007

Walls of water, Interior Design, 1 November 2007

MG flat, Francesc Zamora, Remodeling City Apartments, November 2007

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Cinato Penthouse, Francesc Zamora, Remodeling City Apartments, November 2007

Wiki City creates real-time maps, GIS News, 23 October 2007

Tutto il mondo in una notte sul sito, Elena De Stabile, L'Espresso, 23 October 2007

MITWiki City, EETaiwan, 23 October 2007

Wiki City Rome to provide real-time crowd information, K.C. Jones, EETimes, 23 October 2007

Wiki City Rome, EET China, 23 October 2007

wiki , CCW, 23 October 2007

Architetture flessibili, Casamica, 6 October 2007

Digital Water Pavilion [Miller Gorini, PresS/Tletter, October 2007]

New Digital Water Pavilion to make a splash in Spain, Plan, October 2007

New Digital City, D-Repubblica, 29 September 2007

City life on the screen, Peter Dizikes, Nature Network, 27 September 2007

Wiki City creates real-time maps, Fred O'Connor, PC World, 22 September 2007

Wiki City Projekt, Focus, 20 September 2007

Dynamic Map features Rome in motion, Rossella Lorenzi, Discovery News, 18 September 2007

Wiki City Rome to draw a map like no other, Science Daily, 17 September 2007

Wikis, the semantic web head to the streets, Fred O'Connor, InfoWorld, 17 September 2007

World Beat - Wikis, the semantic web head to the streets, PCWelt, 17 September 2007

Wiki City Rome draws map like no other, Greg Frost, TechTalk, 17 September 2007

Mobiles show a city in motion, Rossella Lorenzi, ABC, 11 September 2007

Aspettando la notte bianca, Elena de Stabile, Repubblica, 9 September 2007

El proyecto Wiki City Rome - plano dinámico de una ciudad, Lucía Villanueva, ADN, 9 September 2007

Wiki City Rome: digitally mapping the urban environment in real time, Web Urbanist, 8 September 2007

City life in real-time, Mumbai News, 8 September 2007

Il web 2.0 riscalda la notte bianca di Roma, Pino Fondati, Il Sole 24 Ore, 7 September 2007

Wiki City, le système qui va vous changer la vie!, Sara Fredaigue, Petit Journal, 7 September 2007

La mappa dei Vip nella Notte bianca romana, Emanuela Di Pasqua, Corriere, 6 September 2007

Wiki City Rome to provide real time crowd information, K.C. Jones, Information Week, 4 September 2007

Un pabellón de agua dará la bienvenida a los visitantes de la Expo, Ana Gracia, Gremios, 1 September 2007

Water walls shore up digital creativity, Architectural Record, 1 September 2007

Streap-tease in Jurmala, Next generation catalogue, 2007

La carte de Rome devient dynamique, Atelier, 31 August 2007

Wiki City Rome to draw a map like no other, Greg Frost & Patti Richards, MIT News Office, 30 August 2007

Wiki City Rome to draw a map like no other, Physorg, 30 August 2007

Ratti: "Italia, il potere è gerontocrazia", Stefano Voltolini, Corriere della Sera - Trentino, 28 August 2007

Next in green building: water walls, Tracy Staedter, Discovery Channel, 21 August 2007

Mobiltelefoner skal kortlægge, Mads Elkær, Computer World, 17 August 2007

Water walls shore up digital creativity, Alex Ulam, Architectural Records, 15 August 2007

Water, water, everywhere, Helen Walters, Business Week, 9 August 2007

La Milla Digital tendrá un pabellón de agua para la Expo, M. Llorente, Heraldo de Aragón, 7 August 2007

"Un manifiesto de la arquitectura digital", Samuel Negredo, Heraldo de Aragón, 7 August 2007

Digital Water Pavilion per Expo Zaragoza 2008, Roberta Dragone, Edilportale, August 2007

Digital water, William J. Mitchell, Domus, July/August 2007

Saragoza, pareti d'acqua all'Expo, Mila Fiordalisi, Il Sole 24 Ore, 30 July 2007

Building made from water: MIT's digital pavillion, Inhabitat, 26 July 2007

Curtain going up or down on first water-walled building, Annie Koo, ENR.com, 25 July 2007

MIT creates walls of water for 2008 World Expo, Chicago Sun-Times, 22 July 2007

Gizmo, New Scientist, 21 July 2007

Water world, The Boston Globe, 16 July 2007

Waterfall walls that make images, The Times of India, 16 July 2007

Building's walls are waterfalls, Tuan C. Nguyen, Live Science, 13 July 2007

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## 008 awards

Delegate at the World Economic Forum in Davos, 28 January - 1 February 2009

Nominated Innovator in Residence by the Queensland Minister of Education and the Arts

One of 60 global innovators for Thames & Hudson 60th anniversary publication

Best paper award of the IEEE International Conference on Advanced GIS & Web Services

Delegate at the World Economic Forum in Tianjin, 27 - 28 September 2008

Named one of Esquire Magazine's Best & Brightest 2008

Best Invention of the Year by TIME Magazine (DWP project at Expo 2008)

Selected as a member of the Italian Design Council by the Minister of Culture

Designated full member (socio ordinario) of the Aspen Institute Italia, Rome, Italy

2nd prize in design competition to redesign the cultural center of Jurmala, Latvia

Included in the Marquis Who's Who in America list since 2005

Michael Breheny Prize for the Best Paper in the Environment & Planning B in 2004

Bronze prize in the I.D. Magazine Interactive Media Competition (SandScape project)

Fulbright Senior Scholarship at the Massachusetts Institute of Technology, 2001-2002

Grant from the Italian Research Council (CNR) for overseas postgraduate research in 2000

Junior Fellow of the Aspen Institute Italia program for the New Leadership 1999-2006

Prize in the EU competition Designing Crafts Europe (jury chaired by Paolo Portoghesi)

Allen Meek and Reed scholarship for postgraduate studies at Cambridge University

Research scholarship by Cambridge University Department of Architecture 1998-2000

1st National Prize in the EU competition Solar Building (jury chaired by Thomas Herzog)

Prize Optime, awarded by the Turin Industrial Union to each year's top graduates in Turin

National scholarship for postgraduate studies, granted by the Politecnico di Torino 1995-1996

Erasmus scholarship for graduate studies at the Ecole des Ponts et Chaussées, 1992-1993

## 009 civic projects

2005-2009, Founder and president of the Comitato Valdo Fusi for promoting architectural change in Turin, Italy; the Comitato launched an international design competition for the redesign of Piazzale Valdo Fusi; finalists, chosen with an innovative procedure that took into account feedback provided by several thousand people, included architect Kengo Kuma and landscape architects Büro Kiefer and Topotek1; more information can be found on the supplement to the design magazine Casabella 749 and at <http://www.valdofusi.it>

1997-2004, Leader of the Progetto Collegium, initiated by a group of Italian researchers in Cambridge (Filippo de Vivo, Luca Einaudi, Manuela Magliocchetti, Carlo Ratti); the project suggested a possible reform of higher education and gained support from eminent Italian academics and politicians including Umberto Eco, Carlo Ginzburg, Carlo Scognamiglio, Giuliano Amato (former Prime Minister); action in Milan led to the Collegio di Milano, described by the Times HES as a "centre of excellence for all fields of study"; more information at <http://web.media.mit.edu/~ratti/collegium>

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