

International Cultural Heritage Informatics Meeting

Politecnico de Milano, Milano, Italy
September 3-7, 2001
www.archimuse.com/ichim01
www.ichim01.polimi.it



ichim 2001 Overview

The International Cultural Heritage Informatics Meeting (**ichim**) is, traditionally, the best international forum in which to examine the relationships between Technology and Cultural Heritage. The theme of **ichim 2001** is *Cultural Heritage and Technologies in the Third Millennium*, which emphasizes the interplay between innovative technologies and their applications to Cultural Heritage. This intersection will be examined with particular attention to the evolution of Cultural Heritage Institutions, whose new forms are determined by the combined impact of innovative technologies and the changing social expectations of their role.

ichim has been held every two years since 1991, alternately in North America and Europe. **ichim 1997** was held in Paris (at the Louvre museum), and **ichim 1999** in Washington D.C. **ichim 2001** will be held at the Politecnico di Milano, where we expect at least 500 specialists, from museums, cultural organizations, universities, research institutes, technology companies and organizations. Blending different areas of expertise and approaches is the trademark of **ichim**, and we encourage broad participation.

We are delighted to announce the preliminary program for **ichim 2001**. This program lists those Tutorials, Full papers, Short papers, and Demonstrations accepted by the International Program Committee. The tutorials and the conference program are organized into various tracks according to different areas of interest. These tracks will allow **ichim 2001** participants to focus their time at the conference. Please see www.archimuse.com/ichim01 for the most recent news and information about the conference.

Registration Information

Registration for **ichim 2001** is available online at www.archimuse.com/ichim01. There is also a registration form included in this form. The registration form can be mailed or faxed to the US address listed below.

ichim 2001 Contact Information

US Address

ichim 2001
Archives & Museum Informatics
2008 Murray Ave.
Suite D
Pittsburgh, PA 15217 USA
phone: +1-412-422-8530
fax: +1-412-422-8594
www.archimuse.com/ichim01
email: ichim2001@archimuse.com

Italian Address

ichim 2001
Politecnico di Milano
Dipartimento di Elettronica ed Informazione
Piazza Leonardo da Vinci,32
20133, Milan Italy
phone: +39-02-2399-3623/ 3405
fax: +39-02-2399-3411
www.ichim01.polimi.it
email: ichim01@polimi.it

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Preliminary Program

This program is subject to change. Not all presentations and papers have been confirmed

| Monday September 3 | |
|-----------------------|--|
| 11:00 am - 6:00 pm | Registration |
| 2:00 pm - 5:30 pm | Tutorial Sessions 1 |
| Tuesday September 4 | |
| 8:30 am - 6:00 pm | Registration |
| 9:30 am - 1:00 pm | Tutorial Sessions 2 |
| 2:00 pm - 5:30 pm | Tutorial Sessions 3 |
| Wednesday September 5 | |
| 8:30 am - 6:00 pm | Registration |
| 9:00 am - 10:00 am | Welcome Address |
| 10:00 am - 11:30 am | Keynote Address, World Cultural Heritage |
| 11:30 am - 12:00 pm | Coffee Break |
| 12:00 pm - 1:00 pm | Conference Session 1 |
| 1:00 pm - 3:15 pm | Short Paper Session 1 and Lunch |
| 3:15 pm - 4:15 pm | Conference Session 2 |
| 4:15 pm - 4:35 pm | Coffee Break |
| 4:35 pm - 6:05 pm | Panel Discussion, World Cultural Heritage |
| 8:00 pm - 9:00 pm | Concert |
| Thursday September 6 | |
| 8:30 am - 6:00 pm | Registration |
| 9:00 am - 10:30 am | Keynote Address, European Cultural Heritage |
| 10:30 am - 11:00 pm | Coffee Break |
| 11:00 pm - 1:00 pm | Conference Session 3 |
| 1:00 pm - 3:15 pm | Short Paper Session 2 and Lunch |
| 3:15 pm - 4:15 pm | Conference Session 4 |
| 4:15 pm - 4:35 pm | Coffee Break |
| 4:35 pm - 6:05 pm | Panel Discussion, European Cultural Heritage |
| 8:00 pm - 10:00 pm | Reception at the Castle |
| Friday September 7 | |
| 8:30 am - 1:00 pm | Registration |
| 9:00 am - 10:30 am | Keynote Address, Italian Cultural Heritage |
| 10:30 am - 11:00 pm | Coffee Break |
| 11:00 pm - 1:00 pm | Conference Session 5 |
| 1:00 pm - 4:15 pm | Demonstration Session and Lunch |
| 4:15 pm - 4:35 pm | Coffee Break |
| 4:35 pm - 6:05 pm | Panel Discussion, Italian Cultural Heritage |

8:00 pm - 10:00 pm

Closing Reception

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Tutorials

ichim2001 offers a wide variety of tutorials, including 2 tracks given in Italian. Half-day tutorials are organized into specific tracks that guarantee a targeted approach to learning.

| Tutorial Track 1: Digital Libraries | |
|--|---|
| September 3 Afternoon | 1.1 Introduction to digital libraries Instructor: to be announced |
| September 4 Morning | 1.2 How to build a digital library using open-source software Ian Witten, University of Waikato, New Zealand |
| September 4 Afternoon | 1.3 Preserving Indigenous Language Newspapers as a Digital Collection Mark Apperley, Te Taka Keegan, University of Waikato, New Zealand |
| Tutorial Track 2: Mobile and Broadband applications | |
| September 3 Afternoon | 2.1 Planning and implementing broadband cultural education services Leonard Steinbach, The Cleveland Museum of Art , USA |
| September 4 Morning | 2.2 Wireless Devices Instructor: to be announced |
| September 4 Afternoon | 2.3 Mobile Computing Technologies and Applications Gian Pietro Picco, Politecnico di Milano, Italy |
| Tutorial Track 3: Planning, Design, and Evaluation - 1 | |
| September 3 Afternoon | 3.1 Understanding the principles of information architecture for the web Paul Kahn, Dynamic Diagrams, USA |
| September 4 Morning | 3.2 Analyzing and planning web sites Paul Kahn, Dynamic Diagrams, USA |
| September 4 Afternoon | 3.3 Design for the computer screen Paul Kahn, Dynamic Diagrams, USA |
| Tutorial Track 4: Planning, Design, and Evaluation - 2 | |
| September 3 Afternoon | 4.1 Understanding publics and building relationships on the web through Critical Publics Relationship Management Costis Dallas, Hellenic Ministry of Foreign Affairs, Alexandros Kouris, Greece |
| September 4 Morning | 4.2 Structured Design of Complex Museum Sites Franca Garzotto, Paolo Paolini, Luciano Baresi, Politecnico di Milano, Italy |
| September 4 Afternoon | 4.3 Systematic Usability Evaluation Franca Garzotto, Paolo Paolini, Politecnico di Milano, Italy, Davide Bolchini, University of Italian Switzerland, Switzerland |

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Tutorials – continued

| Tutorial Track 5: Multimedia for the Web | |
|--|--|
| September 3 Afternoon | 5.1 Museum & Heritage Applications of Digital 3D Imaging J. Angelo Beraldin, National Research Council, Canada, Virginia Valzano, Università degli Studi di Lecce, Italy |
| September 4 Morning | 5.2 Color management in multimedia cultural artifacts R. Schettini, S. Zuffi, ITIM CNR- National Research Council, Italy |
| September 4 Afternoon | 5.3 3-D Cooperative Environments for the Web Thimoty Barbieri, C. Losco, Politecnico di Milano, Italy |
| Tutorial Track 6: Development Tools and Techniques | |
| September 3 Afternoon | 6.1 Introduction to XML and its applications Cecilia Mascolo, University College of London, UK |
| September 4 Morning | 6.2-6.3 Intelligent Database Systems Gian Piero Zarri, CNRS-National Research Council, France, Elisa Bertino University of Milan, Italy |
| September 4 Afternoon | |

Italian Tutorial Tracks (in Italian)

| Italian Track 1: Metodologie | |
|------------------------------|---|
| September 3 Afternoon | IT1.1 Comunicazione multimediale e applicazioni museali Nicoletta Di Blas, Università Cattolica del Sacro Cuore di Milano, Italy |
| September 4 Morning | IT1.2 Musei e reti museali: un approccio integrato alla valorizzazione culturale territoriale) Gabriele Scali, Flavio Tariffi, SPACE S.p.A, Italy |
| September 4 Afternoon | IT1.3 Metodi di progettazione sistematica di applicazioni web Luciano Baresi, Franca Garzotto, Paolo Paolini, Politecnico di Milano, Italy |
| Italian Track 2: Technologie | |
| September 3 Afternoon | IT2.1 Grafica 3D per applicazioni museali Thimoty Barbieri, Politecnico di Milano, Italy |
| September 4 Morning | IT2.2 La rappresentazione del colore in artefatti museali R. Schettini, S. Zuffi, ITIM CNR- National Research Council, Italy |
| September 4 Afternoon | IT2.3 Lo sviluppo modulare di applicazioni web complesse Luca Mainetti, Politecnico di Milano, Italy |

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Conference Program

| Welcome and Keynote Addresses | |
|-----------------------------------|---|
| September 5 9:00am -10:00 am | Welcome Address |
| September 5 10:00 am-11:30 am | Cultural Heritage Informatics, a World View |
| September 6 9:00 am-10:30 am | Cultural Heritage Informatics, Europe |
| September 7 9:00 am-10:30 am | Cultural Heritage Informatics, Italy |
| Lunch Sessions | |
| September 5 1:00 pm-3:15 pm | Poster Session 1 and Lunch |
| September 6 1:00 pm-3:15 pm | Poster Session 2 and Lunch |
| September 7 1:00 pm-4:15 pm | Demonstration Session 1 and Lunch |
| Panel Sessions | |
| September 5 4:35 pm pm-6:05 pm | World Panel |
| September 6 4:35 pm-6:05 pm | European Panel |
| September 7 4:35 pm-6:05 pm | Italian Panel |
| Evening Events | |
| September 5 8:00 pm-9:00 pm | Concert |
| September 6 8:00 pm-9:30 pm | Reception at the Castle |
| September 7 8:00 pm-9:30 pm | Closing Reception |

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Conference Sessions

The conference program is organized into specific tracks that help attendees focus their time and energy at the conference.

| Track 0 Special Session | |
|---------------------------------------|--|
| September 5 12:00 pm - 1:00 pm | Regione Lombardia: Cultural Heritage Projects |
| September 6 11:00 am - 12:00 pm | European Commission: Cooperation in Digitising European Content |
| September 7 11:00 am - 12:00 pm | RAI Education: The IDEA project |
| September 7 12:00 pm-1:00 pm | HOC - Politecnico and Museum of Science and Technology of Milan: A Collaborative Exploration of Leonardo's Virtual City |

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Conference Sessions – continued

| Track 1 Technology | |
|------------------------------------|--|
| Immersive Environments | |
| September 5 12:00 pm-1:00 pm | From Memoria Futura to i2TV: A Technological Framework and Two Models for New Forms of Cultural Participation and Production in Mixed Realities Fleischmann, Monika, Novak, Jasminko, Peranovic, Predrad, Seiber, Christoph., Strauss Wolfgang, Valle, Claudia GMD - German Nat. Research Center for Information Technology - MARS Exploratory Media Lab, Institute for Media Communication, Germany |
| | An Immersive Interactive Experience of Contemporary Aboriginal Dance at the National Museum of Australia Barrass, S. CSIRO CMIS Virtual Environments Lab, Canberra, Australia |
| September 5 3:15 pm-4:15 pm | The Digital Cathedral of Siena - Innovative Concepts for Interactive and Immersive Presentation of Cultural Heritage Sites Behr, Johannes, Center for Computer Graphics - Darmstadt, Germany Froelich Torsten, Knöpfle Christian, Kresse Wolfram, Lutz Bernd, Reiners Dirk, Schöffel Frank <i>Fraunhofer Institute for Computer Graphics - Darmstadt, Germany</i> |
| | Multi Sensory 3D Tours for Cultural Heritage: the Palazzo Grassi Experience Pittarello Fabio, Univ. Cà Foscari - Dip. di Informatica - Venezia, Italy |
| Digital Video | |
| September 6 11:00 am-12:00 pm | i - irasshai: An Immersive Cultural Learning Heritage Jones Brian D., Quay Andrew, Georgia Inst. of Technology - Interactive Media Technology Center, Atlanta, USA Cole Carolyn, Georgia Inst. of Technology - Centre for Education, Atlanta, USA |
| | Making Art Meaningful: the Technologist's Real Challenge Steinbach Leonard, Cleveland Museum of Art - Cleveland, USA |
| September 6 12:00 pm-1:00 pm | Reinventing Museums in a Broadband Environment Kobus Kenneth, The Adler Planetarium and Astronomy Museum - Chicago, USA |
| | VIRAMI - Visual Information Retrieval for Archival Moving Imagery Enser Peter, Sandom Christine, Univ. of Brighton - School of Information Management, UK |
| 3D Acquisition and Modeling | |
| September 6 3:15 pm-4:15 pm | Chromatic Adaptation Post-filtering in Image Synthesis Reproduction of Ancient Building for Restoration Support Marini Daniele, Univ. di Milano - Dip. Scienze dell'Informazione, Italy Rizzi Alessandro, Univ. di Brescia - Dip. di Elettronica per l'Automazione, Italy Rossi Maurizio, Politecnico di Milano - Dip. DiTec, Italy |
| | Automated 3D Recording of Archaeological Pottery Kampel Martin, Sablatnig Robert, Vienna Univ. of Technology - Inst. for Automation - Vienna, Austria |

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|--|---|
| <p>September 7 11:00 am-12:00 pm</p> | <p>Digital Preservation of Cultural Heritage through Constructive Modeling Goodwin Janet R., Aizu History Project – Los Angeles, USA Goodwin James M., U.C.L.A. –Dept of Computer Science – Los Angeles, USA Pasko Galina, Insitute of Kanazawa Insitute of Technology – Tokyo, Japan Pasko Alexander, Hosei univ. – Dept. Of Digital MediaTokyo, Japan Vilbrandt Carl, Univ. Of Aizu – Computer Arts Lab –Wakamatsu, Japan</p> |
| | <p>Surface Model Generation by the Relics from Slice Images, and the Approach to the Automatic Restoration Abe Norihiro, Tanaka Kazuaki, Watanabe Yasuhiro, Kyushu Inst. Of Technology – Fukuoka, Japan Taki Hirokazu, Wakayama Univ., Japan Kinoshita Yoshimasa, Yokota Akira, Univ. Of Occupational and Environmental Health- Fukuoka, Japan</p> |
| <p>September 7 12:00 pm-1:00 pm</p> | <p>Image-Based Implicit Object Modeling: Direct and Indirect Multi Resolution Methods Sarti Augusto, Tubaro Stefano, Politecnico di Milano - Dip. di Elettronica e Informazione, Italy</p> <p>KotaView: Simulating Korean Traditional Architecture Interactively and Intelligently on the Web Choi J. W., Hwang J.-E., <i>Yonsei Univ., Korea</i></p> |

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Conference Sessions – continued

| Track 2: Society/ Impact | |
|----------------------------------|--|
| Art | |
| September 5 12:00 pm-1:00 pm | Review of Visual Art Representation and Communication on the Web Chris Stuart Hutchinson, Kingston University, Paolo Raviolo, University of Siena, Italy |
| | Longevity of Digital Art Howard Besser, University of California, USA |
| Civilizations | |
| September 6 11:00 am-12:00 pm | Cairo's Architectural Heritage: the Downtown Area Bahgat Reem, Saleh Fathi, Wahba Malak, Ministry of Communications and Information Technology - CULTNAT - Cairo, Egypt |
| | Visualizing Indian Heritage DL Metaphor Ramdasi Nagnath R., Centre for Development of Advanced Computing - Pune, India |
| September 6 12:00 pm-1:00 pm | The LeMO Project – Development of an Internet Multimedia Information System of 20th Century German History : Aims and Results Burkhard Asmuss, Arnulf Scriba, Deutsches Historisches Museum, Jürgen Reiche, Haus der Geschichte of the Federal Republic of Germany, Lutz Nentwig, Fraunhofer-Institut für Software und Systemtechnik ISST, Germany |
| | The Cyprus Treasure: A web based Multimedia Application for Archeological Treasures Chrystalla Alexandrou, Achilleas Kentonis, Andreas S. Andreou, George Samaras, Christos N. Schizas, University of Cyprus, Cyprus |
| Social Context | |
| September 7 11:00 am-12:00 pm | From the First Millennium to the third, the Content is the Message! Susan Hazan, The Israel Museum, Jerusalem, Israel |
| | The Niupepa Collection: Opening the Blinds on a Window to the Past Sally-Jo Cunningham, Mark Apperley, Te Taka Keegan, University of Waikato, New Zealand |

Social Context

| | |
|---------------------------------|--|
| September 7 12:00 pm-1:00 pm | Simplified Management of Complex Digital Archive and Web Presentation Projects Calco David C., Allen Memorial Art Museum at Oberlin College - Oberlin, USA |
| | The Academic Library's Role in Transmitting Cultural Heritage Using 21st Century Technology: the University of Arizona Libraries and the Cultural Community Collaboration Model Forger Garry, Glogoff Stuart, Morris Patricia, Norlin Elaina, <i>Univ. of Arizona - Tucson, USA</i> |

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Conference Sessions – continued

| Track 3 Design & Evaluation | |
|--|--|
| Evaluation | |
| September 5 3:15 pm-4:15 pm | Design for Art and Leisure Marti Patrizia, Univ. di Siena - Dept. of Communication Science, Italy |
| | Excellence in Service: the Enabling Power of Well Managed Technology Swanepoel Marinus, Technikon Pretoria, South Africa |
| User Interaction | |
| September 6 11:00 am-12:00 pm | Design Criteria for Usable Web - Accessible Virtual Environments Costalli Filippo, Marucci Luisa, Mori Giulio, Paternò Fabio, <i>CNR - Ist. CNUCE - Pisa, Italy</i> |
| | Towards Interactive Operas: the Virtualis Project Bonardi Alain, Univ. de Paris IV, France Rousseaux Francis, Univ. de Reims, France |
| September 6 12:00 pm-1:00 pm | Electronic Guidebooks and Visitor Attention Aoki Paul M., Hurst Amy, Szymanski Margaret H., Woodruff Allison, <i>Xerox Palo Alto Research Center - Palo Alto, USA</i> |
| | Interactive Cultural Experiences Using Virtual Identities Greeff Mardé, CSIR: icomtek Scientia Pretoria - Pretoria, South Africa Lalioti Vali, Univ. of Pretoria - Dept. of Computer Science, South Africa |
| Representation | |
| September 6 3:15 pm-4:15 pm | A Metadata Model for Multimedia Databases David Gabriel, Ribeiro Cristina, Univ. do Porto - INESC , Portugal |
| | Dating and Authentication of Rembrandt's Etchings with the Help of Computational Intelligence van der Lubbe Jan C.A., Reinders Marcel J.T., van Someren Eugene P., <i>Delft Univ. of Technology, The Netherlands</i> |

Museum applications

| | |
|---------------------------------|--|
| September 5 12:00 pm-1:00 pm | Points of Departure: Integrating Technology into the Galleries of Tomorrow Samis Peter., San Francisco Museum of Modern Art - Interactive Educational Technologies, USA |
| | Developing interactive web-based facilities for medium-sized museums Beardon Colin, University of Plymouth, UK, Mills Judy, Wright Martin, Corinium Museum, Cotswold District Council UK |

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Track 4 Tools and Systems

Museum Applications

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|---------------------------------|--|
| September 5 12:00 pm-1:00 pm | Exploring Landscape, Documenting Culture, Constructing Memory: the Loire Valley Internet Workshop Addison A., Univ. Of California – Berkeley, U.S.A Ceccarelli N., Politecnico di Milano – Dip. Di Design Industriale – Milano, Italy Strickland R., San Francisco, USA. |
| | Ancient Olympia as a Three Dimensional Experience Ogleby C., The Univ. Of Melbourne – Dept. Of Geomatics – Melbourne, Australia |

Managing Digital Archives

| | |
|--------------------------------|--|
| September 5 3:15 pm-4:15 pm | COLLATE – A Web-Based Collaboratory for Content-Based Access to and Work with Digitized Cultural Material Keiper Jurgen, Deutsches Filminstitut - Frankfurt am Main, Germany Brocks Holger, Dirsch-Weigand Andrea, Stein Adelheit, Thiel Ulrich, GMD-IPSI - German Nat. Research Center for Information Technology, Darmstadt, German |
| | Digital Video and Hypermedia Based New Services for Working on Patrimonial Archives Betaille Henri, Chein Michel, Genest David, Nanard Marc, Nanard Jocelyne, LIRMM - Montpellier, France |

Geographic Information Systems

| | |
|---------------------------------|--|
| September 6 12:00 pm-1:00 pm | SITUS, a web based information system for archaeological sites Lazzari Marco, ENEL - Hydro SpA - ISMES - Seriate, Italy Salvaneschi Paolo, Univ. of Bergamo, Italy Spinelli Andrea, IT&T - Milano, Italy |
| | Supporting the Promotion of Historical and Cultural Treasures with a GIS-Based Visual Environment Sebillo Monica, Tortora Genny, Tucci Maurizio, Vitiello Giuliana, Univ. di Salerno - Dip. di Matematica e Informatica - Salerno, Italy |

Multimedia Architectures

| | |
|--------------------------------|--|
| September 7 3:15 pm-4:15 pm | Bridging the Collection Management System Multimedia Exhibition divide: a New Architecture for Modular Museum Systems Scali Gabriele., Tariffi Flavio, S.P.A.C.E. S.p.A. - Prato, Italy |
| | MUSE: an Integrated System for Mobile Fruition and Site Management Salmon Cinotti T., Summa S., Università di Bologna - CERSE - DEIS, Italy Malavasi M., Romagnoli E., Sforza F., Boconsulting Ingegneria dei Sistemi S.p.A. - Bologna, Italy |

Museum Applications

| | |
|----------------------------------|---|
| September 6 11:00 am-12:00 pm | Envisioning & Evaluating " Out-of- Storage" Solutions Bannon Liam, Ciolfi Luigina, Fernström Mikael, Univ. Of Limerick – Interaction Design Centre, Ireland |
| | A New Professional Application at the Musée d'Orsay (Paris) des Cars Laurence, Jule Sylvie, Le Coz Françoise, <i>Musée d'Orsay – Paris, France</i> |

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Short Papers and Demonstrations

Each day of the conference will feature a mid-day lunch session of either short papers / posters or demonstrations. The short paper sessions will take place Wednesday and Thursday (September 5 and 6, 2001) from 1:00 pm-3:15 pm. The demonstration session - Friday, September 7, 2001 from 1:00 pm-3:15 pm - will feature over one hundred demonstrations of applications discussed in papers given at the conference.

The following Short Papers have been accepted by the Program Committee.

Sessions P1-P3

September 5, 1:00pm-3:15pm

P1 RESTORATION AND PRESERVATION

Automatic Feature Recognition Technique on Stone Monuments Using Visible and IR Photography
Lerma José Luis Univ. Politecnica de Valencia – Depto. Ing. Cartografica, Spain

A Digital Image Processing and Database System for Watermarks in Medieval Manuscripts
Wenger Emanuel Austrian Academy of Sciences – Commission of Scientific Visualization-Vienna Austria, Karnaukhov Victor N. Russian Academy of Sciences – Moscow, Russia, Haidinger Alois, Stieglecker Maria Austrian Academy of Sciences – Commission of Paleography and Codicology of Medieval Manuscripts - Vienna, Austria

3D Scanning the Minerva of Arezzo
Rocchini C., Cignoni P., Montani C., Pingi P., Scopigno R. ISTI – CNR Pisa, Italy
Fontana R., Greco M., Pampaloni E., Pezzati L. INOA – Firenze, Italy
Cygielman M., Giachetti R., Gori G., Miccio M., Pecchioli R. Centro di Restauro Archeologico – Firenze, Italy

An Objective and Subjective Comparison of Audio Restoration Systems
Canazza Sergio, Coraddu Guido, De Poli Giovanni, Mian Gian Antonio Univ. of Padova – Dept. of Electronics and Informatics, Italy

An Ultrasound Based Technique for the Detection and Classification of Flaws inside Large sizes Marble or Stone Structural elements
Bramanti Mauro, Bozzi Edoardo IEI – CNR Pisa, Milano

Digital Preservation & Emulation: from Theory to Practice
Granger Steward CAMILEON Project, United Kingdom

Zoomage™: Super High Resolution Imaging & Visualization Tools
Cheng Irene, Basu Anup Telephotogenics Inc., Canada, Mistri Afshad Silicon Graphics Inc., USA

3D Reconstruction applied to Virtual Heritage and Cultural Conservation
Gonçalves João G.M., Sequeira Vítor European Commission – Joint Research Centre Ispra, Italy

P2: 3D WORLDS AND DIGITAL ENVIROMENTS

A Content-Centered Methodology for Authoring 3D Interactive Worlds for Cultural Heritage
Celentano Augusto, Pittarello Fabio Univ. Cà Foscari di Venezia – Dip. di Informatica, Italy

Building “Huys Hengelo” in VRML
Reidsma Dennis, Kragtwijk Martijn, Nijholt Anton Univ. of Twente – Dept. of Computer Science, The Netherlands

Ancient Olympia as a Three Dimensional Museum Experience
Ogleby Cliff Univ. of Melbourne – Dept. of Geomatics, Australia, Kenderdine Sarah Powerhouse Museum – Sydney, Australia

From dust to stardust: a Collaborative 3d Virtual Museum of Computer Science
Barbieri Thimoty, Beltrame Giovanni, Garzotto Franca, Gritti Marco, Misani Daniele
Politecnico di Milano – HOC Hypermedia Open Center, Italy

Exhibiting in Shared Virtual Environments: Realistic 3D Museum Representation over the Web
Harris Tasos, Koutalieris George, Douskos Christos
Systema Informatics S.A. – Athens, Greece,
Constantinos Ksourias, Karantzis Fotis Silicon Technologies S.A. – Athens, Greece

Virtual Walking Tour of Ryonanji Temple using Locomotion Interface
Miyasato Tsutomu ATR Media Integration & Communications Research Laboratories – Kyoto, Japan

Photographic Virtual Reality and Architectural Heritage
Paiano Roberto Univ. of Lecce – Software Engineering and Telemedia Lab., Italy
Virtual Historical Heritage: Yuso Monastery
Aróstegui María, Barbero José Ignacio Labein – Mechanics Unit – Bilbao, Spain, Cruz-Neira Carolina VRAC – Virtual Reality Application Center, USA

A Vision-Driven Gesture-Based Pointer for Computer-Augmented Environments
Baggiani Gabriele, Colombo Carlo, Del Bimbo Alberto
Univ. di Firenze, Dip. di Sistemi ed Informatica, Italy

Minerva: An Artificial Intelligent System for Composition of Museums
Amigoni Francesco, Schiaffonati Viola, Somalvico Marco Politecnico di Milano – Artificial Intelligence and Robotics Project, Italy

P3: CASE-STUDIES

OMAR – An Online Database for Oriental Manuscripts
Brückner Matthias, Kandzia Paul-Thomas Freiburg University – Oriental Seminar, Germany

Guidelines for Archaeological Map of Tuscany: Some Issues and Experiences
Pasquinucci Marinella Univ. di Pisa – Dip. di Scienze Storiche del Mondo Antico, Italy, Signore Oreste CNUCE – CNR Pisa, Italy

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Hiley Michael De Monfort Univ. Centre for Technology and the Arts – Leicester, United Kingdom

SIUSA: Unified Information System for Record Office Superintendencies
Bondielli Daniela, Parrini Umberto, Romano Giuseppe Alberto Scuola Normale Superiore di Pisa – Centro

Ricerche Informatiche per i Beni Culturali, Italy, Maria Grazia Pastura Ministero Beni e Attività Culturali, Italy

Oriental Brightness into an European City – Bucarest of '30 years
Ciocoiu Laura Research Institute for Informatics, Romania, Falcan Dan The Museum of Bucarest, Romania

The Joachim DeBrum Photograph Project; Digital Restoration and Archiving in Micronesia
Lindborg Eric, Lindborg Cristina, Rosoff Sue Marshallese Cultural Society – Marshall Islands, USA

Images of the early 20th century. The Photographic Fund of the Istituto di Arti Grafiche of Bergamo for "Emporium" magazine
Brunetti Federico, Alberici Ilaria, Ricci Giuliana Politecnico di Milano, Fac. Di Architettura – Design, Italy

The New Norwegian Rock Art Database
Helliksen Wenche, Holm-Olsen Inger Marie, Nesheim Olaug Hana, Pettersen Bjørg, Sønderland Randi Norwegian Institute for Cultural Heritage Research – Oslo, Norway

Getting a Multimedia Message across in Palermo Information Technology and Artistic Heritage in an Area with a Low Rate of Development
Benincasa Loredana, Ferrara Cinzia Univ. di Palermo – Fac. Architettura – Design, Italy

The Virtual Museum of Architecture
Cardellini Eleonora Università di Roma La Sapienza – Laboratorio Multimediale di Architettura, Italy

Museum of Natural Heritage: an Interactive Hypermedia Presentation
Bohicchio Mario, Paiano Roberto, Andreassi E., Montanaro Tiziana Univ. of Lecce – Software Engineering and Telemedia Lab., Italy

IBC WEB SITE: a Multi-stage, Multi-site Experimentation of W2000 Model
Guermanni Maria Pia Ist. Beni Culturali della Regione Emilia Romagna – Bologna, Italy

Sessions P4-P7

September 6, 1:00pm-3:15pm

P4: BUILDING A NEW CULTURE

New Economy and Digital Culture – the REGNET project
Koch Walter, Koch Gerda AIT Angewandte Informationstechnik Forschungsgesellschaft mbH, Austria

Strategic combination of electronic and traditional services
Fleurbaey Ellen Amsterdam Municipal Archives, The Netherlands

Cultural Heritage in the Age of the Web: How New Media Can Affect Art Fruition
Calvi Licia Eindhoven Univ. of Technology – Dept. of Computer Science, The Netherlands

Hypertext and word of mouth interact in theatre for the trasmission of cultural heritage
Gentile Anna, Paladini Ilenia Univ. of Lecce – Dept. of Innovation Engineering, Italy

Broadcast Archives: Preserving the Future
Wright Richard BBC Information and Archives, United Kingdom

Facing Challenges of New Media on the Crossroads of East-West and Past-Future (Lithuanian Case Study)
Kligien Nerut, Telksnys Laimutis Institute of Mathematics and Informatics – Vilnius Gedeminas Technical Univ., Lithuania

Electronic IPR (eIPR) Managment Technologies
Bartolini Franco, Caldelli Roberto, Cappellini Vito Univ. of Firenze – Dept. of Electronics and Telecommunications, Italy

Networking historical sources: a demand-side driven approach
Rosenbusch Andrea Swiss Federal Archives – Bern, Switzerland

A View on the Design of Usable Museum Appliance
Mussio Piero Univ. di Brescia – Dip. di Elettronica per l'Automazione, Italy, Celentano Augusto Univ. Cà Foscari di Venezia, Italy

Initial Thoughts for Setting up a Virtual Exhibition
Carreras Monfort Cèsar Univ. Oberta de Catalunya – Dept. of Humanities - Barcelona, Spain

P5: CULTURAL HERITAGE, NEW MEDIA AND EDUCATION

Discovernet©: Building an Education Gateway
Adendorff Lee Australian Museums OnLine, Australia

Zoom Media Lab & The Virtual Collection of Children's Everyday Culture
Pirker Sasha, Wagner Stefan Uma Information Technology – Vienna, Austria

The Museu da República Data Base – a Creative Tool to Educate and Disseminate Information
Evres Ana Cristina, Godoy Karla Estelita Museu da República – Rio de Janeiro, Brazil

Integrating cultural Heritage Activities in Education Process: Experiences and Perspectives through New Technologies
Morreale Eugenio Univ. di Pisa – Dip. di Informatica, Italy

[ars.edu] – European network of Cultural Heritage Education Centres
Ronchi Alfredo M. Politecnico di Milano – Dept. ISET, Italy

P6: LOOKING FOR CONTENT

Searching Documentary Films on line: the ECHO Digital Library
Amato Giuseppe, Gennaro Claudio, Savino Pasquale I.E.I. – CNR Pisa, Italy

Handling Sub-Image Queires In Content-Based Retrieval of High Resolution Art Images
Chan Stephen, Martinez Kirk, Lewis Paul Univ. of Southampton – Intelligence, Agents and Multimedia Research Group, United Kingdom
Lahanier Christian Centre de Recherche et de Restauration des Musée de France, France
Stevenson James Victoria and Albert Museum – London, United Kingdom

Logical Framework for Information Retrieval and Conservation Project. Geo-referencial Querying in Integrated Catalogues and Notified Cultural heritages.
Marescotti Luca, Mascione Maria Politecnico di Milano – DI.Tec, Italy

Quicklink: Managing Similatity Links in Cultural Heritage Archives on the Web
Gagliardi Isabella, Zonta Bruna ITIM – CNR Milano, Italy

Mobile Divices to Assist Cultural Visits
Bonfigli Maria Elena Vis.I.T. Lab – CINECA – Casalecchio, Italy, Cabri Giacomo, Leonardi Letizia, Zambonelli Franco Univ. di Modena e Reggio Emilia – Dip. Scienze dell'Ingegneria, Italy

P7: DATA MODELS

Environments authenticated by archaeologists
Bonfigli Maria Elena, Guidazzoli Antonella, Mauri Massimo Alessio Vis.I.T. Lab – CINECA – Casalecchio, Italy, Corallini Antonella, Scagliarini Corlàita Daniela Univ. di Bologna – Dip. di Archeologia, Italy

VandA: a Metadata Model for Supporting New Usages of Historical Audio-Visual Archives Material
Amato Giuseppe, Castelli Donatella, Veronesi Paola IEL- CNR Pisa, Italy

**From Parchment to the Network: Manuscript
Management and Cataloguing**

Alberti Maria Alberta Univ. di Milano – Dip. Scienze
dell'Informazione, Italy, Barbero Giliola, Pasini Cesare
Biblioteca Ambrosiana – Milano, Italy

The Library: a Cultural Mine

Carrara Paola ITIM – CNR Milano, Italy, Fresta
Giuseppe CNUCE – CNR Pisa, Italy

**MauroTeX – A Language for Electronic Critical
Editions**

Mascellani Paolo Univ. di Siena – Dip. di Matematica,
Italy, Napoletani Pier Daniele Univ. di Pisa – Dip. di
Matematica, Italy

**The "XML/Repetti" Project: XML Encoding and
Manipulation of Temporal Information in Historical
Text Sources**

Grandi Fabio Univ. di Bologna – DEIS and CNR –
C.S.I.T.E., Italy, Mandreoli Federica Univ. di Modena e
Reggio Emilia – D.S.I., Italy

All Demonstration Sessions

September 7, 1:00pm-4:15pm

Demo Track 1: Cultural Heritage and Education

Discovernet©: an Education Gateway to Museums and Galleries

Lee Adendorff Australian Museums and Galleries OnLine, Australia

Teaching and Learning through Exploring and Manipulating 3D Models

Eugenio Morreale, Univ. di Pisa - Dip. di Informatica, *Gambino Franco*, Technology Reply S.r.l., Pisa, Italy

I-irasshai: an Immersive Cultural Learning Experience

Brian D. Jones Georgia Institute of Technology - Interactive Media Technology Center, Atlanta (GA), USA

Demo Track 2: New Forms of Interaction

A Collaborative Exploration of Leonardo's 3D Virtual City

Timoty Barbieri, Chiara Losco, Politecnico di Milano – Laboratorio HOC, Italy *Giuliano Gaia*, Museo della Scienza e della Tecnica, Milano, Italy

Virtualis: an Interactive Opera

Alain Bonardi Sorbonne University, Paris, France

MUSE: an Integrated System for Mobile Fruition and Site Management

Maurizio Malavasi, Enrico Romagnoli Boconsult Ingegneria dei Sistemi S.p.A., Bologna, Italy

Demo Track 3: Virtual Cities and Architectures

The Virtual Museum of Architecture

Eleonora Cardellini Università di Roma La Sapienza – Laboratorio Multimediale di Architettura, Italy

3D for Communicating Cultural Heritage on the Web: the Palazzo Grassi Web Site

Fabio Pittarello Università Ca' Foscari di Venezia – Dip. di Informatica, Italy

Bologna at a Glance

Maurizio Malavasi Boconsult Ingegneria dei Sistemi S.p.A., Bologna, Italy
and Silvia Summa, Università di Bologna - Centro di ricerca sui sistemi elettronici (CERSE), Italy

Exploring Landscape, Documenting Culture, Constructing Memory. The Loire Valley Internet Workshop

Nicolò Ceccarelli Politecnico di Milano - III Facoltà di Architettura/Design, Italy

Demo Track 4: Digital Collections

Arts and Humanities Data Service – Digital Collections

Christopher Pressler King's College - Arts and Humanities Data Service, London, UK

Heritage on the Web: Providing Access to Historic Properties and their Contents

Michael Hiley De Montfort University - Centre for Technology and the Arts, Leicester, UK

The NZDL Niupepa Collection: Historical Indigenous Language Newspapers on the Internet

Mark Apperley, Te Taka Keegan University of Waikato, New Zealand

Images of the Early 20th Century. The Photographic Fund of the Istituto di Arti Grafiche of Bergamo for "Emporium" Magazine

Federico Brunetti, Ilaria Alberici Politecnico di Milano – DITec, Dip. di Disegno Industriale e Tecnologia dell'Architettura, Italy

The New Norwegian Rock Art Database

Wenche Helliksen, Bjørg Pettersen, May-Liss Sollund, Randi Sønderland Foundation for Nature Research and Cultural Heritage Research, NINA-NIKU, Norway

Demo Track 5: Preserving Culture

LeMO: an Internet Multimedia Information System of 20th Century German History

Lutz Nentwig, Fraunhofer ISST, Berlin, Germany, *Arnulf Scriba*, German Historical Museum, Berlin, Germany, *Jürgen Reiche*, Haus der Geschichte of the Federal Republic of Germany, Bonn, Germany

Art2LIFE: the Canadian Century

Franca Pernatozzi, Michel Blondeau Ecentricarts inc., Canada

Zoom Media Lab & the Virtual Collection of Children's Everyday Culture

Sasha Pirker, Stefan Wagner Uma Information Technology AG, Austria

Facing Challenges of New Media on the Crossroads of East-West and Past-Future (Lithuanian Case Study)

Nerute Kligiene, Laimutis Telksnys Institute of Mathematics and Informatics, Vilnius, Lithuania

The Survival of Traditional Brick Factories in the Baixada Campista

Simonne Teixeira, J. Paulo Gama de Oliveira Universidade Estadual do Norte Fluminense – UENF, Brazil

Oriental Brightness into an European City – Bucharest of '30 years

Laura Ciocoiu Research Institute for Informatics, Romani

Demo Track 6: Technologies and Tools

iPaq Virtual Museum Guide

Giorgio Bramati Compaq Computer, Itali

ICT Based Monument Management

Alfredo Ronchi, Larissa Zoni Politecnico di Milano - Dept. ISET HMG Lab, Italy

3D Reconstruction Applied to Virtual Heritage and Cultural Preservation

J. Goncalves, V. Sequeira European Commission - Joint Research Centre, Ispra (Va), Italy

Digital Preservation of Cultural Heritage through Constructive Modeling

Carl Vilbrandt University of Aizu, Computer Arts Lab, Aizu-Wakamatsu, Japan, Galina Pasko, IT Institute of Kanazawa Institute of Technology, Tokyo, Japan, Janet R. Goodwin, Aizu History Project, Los Angeles (CA), USA, James M. Goodwin University of California Los Angeles - Dept. of Computer Science, Los Angeles (CA), USA

Minerva: an Artificial Intelligent System for Composition of Museums

Francesco Amigoni, Viola Schiaffonati Politecnico di Milano –Dip. Elettronica e Informazione, Artificial Intelligence and Robotics Project, Italy

Migrator 2000: Jpeg 2000 file format

Andrea de Polo Fratelli Alinari Spa, Italy

[ars.edu] - European network of Cultural Heritage Education Centres

Alfredo M . Ronchi, Politecnico di Milano, Italy

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