

Elektronic Imaging & the Visual Arts

EVA Europe '99 Berlin

Conference Proceedings

Contents

Invited Lecture

- V1 **'Image Index for Art & Architecture'**
1.5 million digital images, techniques, databases, development, co-operative production, cultural policy implications.
Professor Dr Lutz Heusinger (Bildarchiv Foto Marburg)
-

Digitizing: Beginning New Media Application

- V2 **Incunabla on the Internet – a Digitisation Project of the Bayerische Staatsbibliothek**
Dr Marianne Dörr (Bayerische Staatsbibliothek, Munich, Germany)
- V3 **Digitisation of the Prints & Drawings of the Albertina Graphics Collection**
Dr Barbara Dossi (Graphische Sammlung Albertina, Vienna, Austria)
- V4 **Image Processing and UV/Vis/IR-Reflectography with Bandpassfilters. The Making Visible of Washed or Rubbed Writing in Medieval Manuscripts Analysis of Underdrawings in Book Painting – Presentation of the Printed Digitized Images**
Professor Robert Fuchs (Fachhochschule Köln, Cologne, Germany)
- V5 **Photo-Realistic Visualization of Objects and Scenarios**
Professor Thomas Stuatmeister (INNOTECH Holztechnologien, Berlin, Germany)
- V7 **Digitizing and CNC-Premachining of Stone Sculptures**
Dr Bruno Lull (ITW Institut für innovative Technologien Chemnitz, Germany)
- V8 **Material of Ethnographic Expeditions in Ukraine Multimedi Publication**
V V Petrov, O S Onyschenko, S M Shanoylo, A A Kryuchin, M Y Kolesnikov, L V Sholohova (National Academy of Sciences of Ukraine, Kyiv)
- V9 **Direct Play back of Negatives of Historic Sound Cylinders**
Thomas Kessler (Gesellschaft zur Förderung angewandter Informatik e.V., Berlin, Germany)
-

Cultural Databases: Capture – Maintenance - Retrieval

- V10 **XML/SGML Technology in the Field of Mediating Cultural Heritage Recording - Archiving – Information Retrieval in order to mediate Cultural Heritage**
Dr Johannes Palme (Institut für Terminologie und angewandte Wissensforschung, Berlin, Germany)
- V11 **The SIM Project – Multimedia Information System for Museums**
Carmen Sauer, Dr Dan Donciulescu, Cornelia Lepădatu, Cristina Orășanu (Research Institute for Informatics, Bucharest, Romania), Lucian Vasilica (National Museum of Art of Romania)
- V12 **Conception and development of a database System for art and cultural properties KuKuG („Kunst und Kulturgut“)**
Ulrich Lang (KuKuG Projektentwicklungsgesellschaft, Berlin, Germany)
- V13 **Content-Based Retrieval of Digital Archives using Statistical Object Modeling Techniques**
Stefan Müller, Frank Wallhoff, Stefan Eickeler, Gerhard Rigoll (Gerhard-Mercator-Universität Duisburg, Germany)
- V14 **Merging Image Features by Self Organizing Maps in Coats of Arms Retrieval**
Christian Breiteneder (University of Vienna, Austria), Dieter Merkl (Vienna University of Technology, Austria), Horst Eidenberger (Ministry of Science and Transport, Vienna Austria)
- V15 **The Digital Archive for Design, Art and Architecture. Summery of the Research Project of the Design Department**
Dr Markus Paulußen (Hochschule Anhalt - Universität für angewandte Wissenschaften, Dessau, Germany)
-

Presentations – Multimedia Projects – Culture on the WWW

- V16 **Seven Hills. Images and Signs of the 21st Century**
An Exhibition of the Berliner Festspiele GmbH for the Millenium 2000 in the Martin-Gropius-Bau
Bodo-Michael Baumunk, Dr. Hendrik Budde, Ulrike Goeschen (Berliner Festspiele GmbH, Germany)
- V17 **Visualizing Uncertainty in Virtual Reconstructions**
T. Strothotte¹, M. Puhle², M. Masuch¹, B. Freudenberg¹, S. Kreiker², B. Ludowici³
(¹) *Otto-von-Guericke-Universität Magdeburg*, (²) *Kulturhistorisches Museum Magdeburg*, (³) *Geisteswissenschaftliches Zentrum Geschichte und Kultur Ostmitteleuropas, Leipzig, Germany*)
- V18 * **Museums and WWW: Between Visit Information and Virtual Exhibition**
Petra Schuck-Wersig, Professor Gernot Wersig (Freie Universität Berlin, Germany)
- V19 **The Use of the Internet for the Public Relations and Press Work of the Staatliche Museen zu Berlin – Preußischer Kulturbesitz**
Christoffer Richartz, Karin Schmidl (Staatliche Museen zu Berlin, Außenamt, Berlin, Germany)
- V20 **The LeMO Project – Developing a Virtual Exhibition of 20th Century German History**
*Kai Albrecht, Dr Burkhard Asmuss (German Historical Museum, Berlin, Germany),
Dorlis Blume, Dr Jürgen Reiche (Haus der Geschichte of the Federal Republic of Germany, Bonn),
Rainer Häner, Lutz Nentwig (Fraunhofer Institute for Software and Systems Engineering, Berlin)*
- V21 # **Knowledge Dissemination through Digital Media in Museums and Exhibitions**
*Christof Siedel (märzdesign, Berlin, Germany), Jürgen Mrosek (Staatliche Museen zu Berlin /
Außenamt, Germany)*
- V22 **Strategies of Knowledge Transfer in Interactive Media**
*Harald Krämer (Universität zu Köln, Cologne, Germany & Die lockere Gesellschaft – Transfusionen,
Wien, Austria)*
- V23 **Evaluation of the Lotsensystem of the Berlin State Museums (SMPK)**
Claudia Wölfle (LuRaTech, Berlin, Germany)
- V24 **Evaluation of the Use of POI Systems in the German Salt Museum**
Professor Andreas M Heinecke (Fachhochschule Gelsenkirchen, Germany)
- ComZ – The Alternative Kind of Presentation**
Günther Gromke (CD Service Günther Gromke, Leipzig, Germany)
- The Logistics of Images:**
On the Participation of Art History in the Design of New Forms of Information
Dr Matthias Bruhn (Universität Hamburg, Germany)
- Digital Imaging Database Systems need "Digital Originals"**
*Helmut G. Hofmann (Kodak Professional, Stuttgart, Germany),
Gary Kammerhuber (Kantonsachäologie Brugg, Switzerland)*
- The Project "Theses Online". Publication between Science and Library**
Susanne Dobratz, Dr Hans-Ulrich Kamke (Humboldt Universität Berlin, Germany)
- MultiMedia Management at "Die Deutsche Bibliothek"**
Jürgen Kessler (CSC Ploenzke AG, Munich, Germany)
- Artchannel. Video Content on the Web. Live Webcasts
at the Kunst- und Ausstellungshalle der Bundesrepublik Deutschland – Bonn, Germany**
Norbert Kanter (Kunst- und Ausstellungshalle of the Federal Republic of Germany, Bonn, Germany)

List of Presentations

- | | |
|-----|---|
| A1 | Image Archive for Culture and Architecture
<i>Bildarchiv Foto Marburg, Germany</i> |
| A2 | Austrias Cultural Information System AEIOU. 3 Years of Online Experience
<i>Bundesministerium für Wissenschaft und Verkehr, Vienna, Austria</i> |
| A3 | The MultiMedia Management at "Die Deutsche Bibliothek"
<i>CSC Ploenzke AG, Munic, Germany</i> |
| A4 | The LeMO Project - Developing a Virtual Exhibition of 20th Century German History
<i>Deutsches Historisches Museum, Berlin & Haus der Geschichte der Bundesrepublik Deutschland, Bonn & Fraunhofer-ISST, Berlin, Germany</i> |
| A5 | The Generation of Dynamic Virtual (3D) Presentation Localities in the Internet. Electronic Commerce and Secure Transactions shown by Media and Net Art from Berlin
<i>TU Berlin, Forschungszentrum für Netzwerktechnologien und Multimedia, Germany</i> |
| A6 | I Overview of Image Formats suitable for Presentation of Art on the WWW
II Dependence of Image Quality Measures on the Lossy JPEG Compression Rate. Can the Optimal Compression Rate of Images intended for Presentation of Art on the WWW be found?
III Wavelet Compression Techniques as a Tool for the Presentation of Printed Documentes on the WWW
<i>Silesian Technical University of Gliwice, Poland</i> |
| A7 | The Electronic Slide Library. The Application of an Electronic Database in the Art History Slide Library at Humboldt-University Berlin
<i>Humboldt-Universität zu Berlin, Kunstgeschichtliches Institut, Germany</i> |
| A8 | Photo-Realistic Visualization of Objects and Scenarios
<i>INNOTECH Holztechnologien, Berlin, Germany</i> |
| A9 | # Stereo/3D Scanner for Use in Art and Museums
<i>Stereoscopic Scanning, Berlin, Germany</i> |
| A10 | # Optical Acquisition and Evaluation of Range Data for Analysis and Documentation of Archaeological Samples
<i>Universität Münster, Labor für Biophysik, Germany</i> |
| A11 | 3D-Photomodels and Digital Metric Images - the Use of New Technologies in Architecture and Monument Conservation
<i>fokus Gesellschaft für Bauvermessung, Photogrammetrie und Bildverarbeitung, Leipzig, Germany</i> |
| A12 | A System Solution for Digital Panoramic Photography
<i>Spheron VR, Kaiserslautern, Germany</i> |
| A13 | # Touchless On-Site Data Acquisition System for Freeformed Details of Architecture like Statues, Relief, Capitals
<i>Gesellschaft zur Förderung angewandter Informatik e.V., Berlin, Germany</i> |
| A14 | BIDAS Image Data System
<i>Duehrkohp & Radicke, Göttingen, Germany</i> |
| A15 | Public and Regional Landscape Image Databases / Photo Library
<i>Fachhochschule Eberswalde & Zentrum für Agrar- und Landschaftsnutzung, Müncheberg, Germany</i> |
| A16 | Use of Media Independed Archived Photo CD Images in Practice
<i>CD-Service Günther Gromke, Leipzig, Germany</i> |
| A17 | Information System OBJEKT. Dynamic Object and Media Administration
<i>DEM Gesellschaft für digitale Datenverarbeitung, Olpe, Germany</i> |

- A18 **Virtual Reconstruction of the Berlin Castle and Nobunaga's Palace**
IIEF Berlin, Germany
- A19 * **Berlin Connection. An Interactive Documentary Thriller!**
eku interactive, Germany
- A20 **Multimedia and Archaeology - a CD-ROM on the Antique City of Pergamon**
Project group led by Dr Jürgen Süß, Brühl, Germany
- A21 * **Vienna Walk Demo – a Prototype of an Interactive Movie**
Universität zu Köln, Cologne, Germany & Die lockere Gesellschaft, Vienna, Austria
- A22 **Materials of Ethnographic Expeditions in Ukraine Multimedia Publication**
National Academy of Sciences of the Ukraine, Kiev
- P23 **Creation of the Database : The Medieval Sculptures from the Steppes of Asia and Europe**
Village-Museum Bucharest, Romania
- P24 **Evaluation of the Lotsensystem of the Berlin State Museums (SMPK)**
LuRaTech, Berlin, Germany
- P25 **MuseumPlus – the Comprehensive Collection Management System**
zetcom Informationsdienstleistungen AG, Bern, Switzerland
- P26 **Digital Knowledge Transfer in Museums and Exhibitions**
Außenamt der SMPK & märzdesign, Berlin, Germany
- P27 **To Percept Means to Give Truth**
twosuns GmbH media development, Berlin, Germany
- P28 **emii European Museums' Information Institute**
European Museums' Information Institute
- P29 **Poster: Neutron Autoradiography of Paintings**
SMPK Gemäldegalerie & Hahn-Meitner-Institut & SMPK Rathgen-Forschungslabor, all Berlin, Germany
- P30 **Poster: Information System in the National Museum of Art of Romania - Achievement and Projects**
National Museum of Art of Romania, Bucharest
- P31 **Poster: The Assessment of Compression Induced Image Degradation**
Defence Evaluation and Research Agency, UK