

**Regina Franken-Wendelstorf/  
Elisabeth Lindinger/Jürgen Sieck (Hrsg.)**

# **Kultur und Informatik**

**Reality and Virtuality**

**vwh**

Verlag Werner Hülsbusch  
Fachverlag für Medientechnik und -wirtschaft

# Table of Content

- 9 Opening address of the Vice President
- 11 Preface
- 15 Virtual Humans: Bridging the Gap Between People and Machines  
*Bill Swartout*
- 17 Web-based and Mobile Provisioning of Virtual 3D Reconstructions  
*Jan Klimke, Benjamin Hagedorn, Matthias Trapp, Jürgen Döllner*
- 29 Simulation of Concert Halls' Room Accoustic Characteristics toward Sustainability of their Cultural Heritage  
*Mojtaba Navvab, Gunnar Heilmann, Andy Meyer, Sébastien Barré*
- 49 Harnessing Photogrammetry to Create Alternative Views in Heritage  
*Jonathan C. Roberts, Joseph W. Mearman and Andrew Wilson*
- 63 MuPris: Museum of Sarcophagi at the Catacombs of Priscilla in Rome, Italy  
*Laura Pecchioli, Giorgio Verdiani, Mirco Pucci, Barbara Mazzei*
- 81 Virtual Varna: Cultural Dimensions  
*Vera Boneva*
- 93 The AR Book Project: Collection of Augmented Reality Application of Balinese Artistic and Cultural Objects  
*Made Windu Antara Kesiman, I Gede Mahendra Darmawiguna, Padma Nyoman Crisnapati, Gede Sukra Ardipa, I Kadek Yostab Mariyantoni, Made Lanang Nugraha, Agus Nyoman Reditya Ary Prasetya, I Made Adi Yoga Dewantara*

- 107 Augmented Reality for the Documentation of Cultural Heritage Building Modelling in Bali, Indonesia  
*I Gede Mahendra Darmawiguna, Made Windu Antara Kesiman, Padma Nyoman Crisnapati, I Made Endra Wiartika, Kadek Dwi Suprianta, I Komang Susena, I Made Yudiantara*
- 119 Answering the Challenge and Harnessing the Future for Heritage  
*Omer Breiner, Matija Ravitz, Yaara Dromi, Nadav Sagir*
- 143 Past Worlds – Virtually or Physically Preserved?  
*Mayke Wagner*
- 145 Persuasive Computing: An African Cultural Experience in Namibia  
*H.N. Muyingi, O. Weede, J. Lumbasi, S. Muchinenyika, A. Kachepa*
- 151 Library of Birmingham – Where Digital Meets Physical  
*Rebecca Bartlett Andy Hartwell*
- 161 Surveil and Calculate  
*Katharina Spiel*
- 173 Interactive Streaming of Live Events  
*Ralf Schäfer*
- 175 Looking Behind the Curtain  
*Stephan Bergemann, Julien Letellier, Erik Lippmann, Jens Reinhardt, Stefan Schöbinger, Jürgen Sieck, Desiree Wündisch*
- 189 Extended Senses in Responsive Environments – An Artistic Research Project on Atmosphere  
*Christiane Heibach, Andreas Simon, Jan-Lewe Torpus*
- 193 Multimedia guide for the Odessa Museum of Modern Art  
*Anna Misyun, Vladimir Brovko, Svetlana Antoshchuk*

- 203 Source Material and Information in History, Implemented in a Smartphone App  
*Gudrun Görnitz, Christian Schölzel, Alexander Vollmar*
- 215 Access Everywhere: From Talking Buildings to Digital Overlays  
*Jessica Taylor*