

# Contents

## Keynote Presentations

<i>Self-Organizing Multimedia and Extremely Distributed Architectures</i> William Butera, V. Michael Bove, Jr. ....	1
<i>Story Networks: “The medium is the message”; The content, your souvenir</i> Glorianna Davenport .....	7

## 3D in Multimedia

<i>Adaptive Visualization of Distributed 3D Documents Using Image Streaming Techniques</i> Jobst Löffler, Dieter W. Fellner .....	9
<i>Reusing Motions and Models in Animations</i> Akanksha, Z. Huang, B. Prabhakaran, C. R. Ruiz, Jr. ....	21
<i>3D-dvshop: a 3D Dynamic Virtual Shop</i> A. Sanna, B. Montrucchio, P. Montuschi, C. Demartini .....	33

## Multimedia Architectures and Authoring

<i>Realising Real Time Multimedia Groupware on the Web</i> Colin Allison, Martin Bateman, Alan Ruddle .....	43
<i>Abstractions in Multimedia Authoring: The MAVA Approach</i> Juergen Hauser, Jing Tian .....	55
<i>Extended Format Definition and Quality-driven Format Negotiation in Multimedia Systems</i> Marco Lohse, Philipp Slusallek, Patrick Wambach .....	65

## Video and Coding

<i>A Server-based Interactive Remote Walkthrough</i> Daniel Cohen-Or, Yuval Noimark, Tali Zvi .....	75
<i>Sobol Partial Distortion Algorithm for Fast Full Search in Block Motion Estimation</i> Davide Quaglia, Bartolomeo Montrucchio .....	87
<i>DynaVideo – A Dynamic Video Distribution Service</i> Luís Eduardo Leite, Renata Sofia Alves, Guido Sousa Filho, Thais V. Batista .....	95

## **Content Based Retrieval and Security**

*Content Based Retrieval of VRML Objects – An Iterative and Interactive Approach*

Michael Elad, Ayellet Tal, Sigal Ar . . . . . 107

*Authentication of Volume Data Using Wavelet-Based Foveation*

Mohan S. Kankanhalli, E.-C. Chang, X. Guan, Z. Huang, Y. Wu . . . . . 119

*Buoy Indexing of Metric Feature Spaces for Fast Approximate Image Queries*

Stephan Volmer . . . . . 131

## **Interactive Media**

*Non-Conventional Interfaces using Stamp Controllers*

Hugh Mallinder, Huw Jones . . . . . 141

*Interactive, Evolutionary Textured Sound Composition*

Sidney Fels, Jonatas Manzoli . . . . . 153

*Screen Space: Depiction and the Space of Interactive Media*

Stephen Boyd Davis, Huw Jones . . . . . 165

## **Interactive TV**

*SPATIAL VIDEO Exploring Space Using Multiple Digital Videos*

Edmundo M. N. Nobre, António S. Câmara . . . . . 177

*Live@web.com – Using CBIR Technology in Interactive Web-TV*

Felix Morsdorf, Stephan Volmer . . . . . 189

*2BeOn – Interactive Television Supporting Interpersonal Communication*

Jorge Abreu, Pedro Almeida, Vasco Branco . . . . . 199

## **Demonstration**

*Effective Exercise Instruction System Using Virtual Human*

Yoshikazu Itami, Norimasa Yoshida, Katsuhiko Kitajima . . . . . 209

Multimedia 2001

Proceedings of the Eurographics Workshop in

Manchester, United Kingdom, September 8-9, 2001

Jorge, J.A.; Correia, N.M.; Jones, H.; Kamegai, M.B. (Eds.)

2002, X, 209 p. 74 illus., Softcover

ISBN: 978-3-211-83769-6