Preface

CMV 2006 is the 4th conference on coordinated and multiple views in exploratory visualization. The aim of this conference is to bring together top researchers in the area to demonstrate the state of the art, stimulate discussion, illuminate open research questions, and debate ideas and future opportunities.

The first CMV conference was held in 2003. During the last four years, significant advances have been made in several directions, including fundamental theoretical issues, development of tools and infrastructure, usability and HCI studies, and applications of coordinated multiple visualizations to a variety of problems. One can observe a general portrait of this research domain by exploring the four volumes of the conference proceedings.

Still, there are several ongoing challenges in the CMV domain. Although numerous interesting research prototypes have been developed, coordinated views are not yet widely used in commercial software. Existing research prototypes are seldom compatible, and in many cases are impossible to combine into complementary tools in order to achieve a synergetic effect. Many users are not aware of how to get advantages from combining available multiple visual representations.

We have high hopes that the 2006 conference will help us to take steps to meet these challenges. This year we received 16 submissions. Each paper has been reviewed by several members of the international program committee (in most cases by four or five reviewers). Of these, nine papers have been accepted for oral presentation and appear in this volume. The selected papers demonstrate the breadth of this area, detail solutions toward some of the challenges, and allow the reader to further study this exciting research area.

Gennady Andrienko

Jonathan C. Roberts

Chris Weaver

Acknowledgments

Gennady Andrienko

Jonathan C. Roberts

Chris Weaver

Organizers

Conference Chairs

Gennady Andrienko, *Fraunhofer Institute AIS, DE*
Jonathan C. Roberts, *University of Kent, UK*
Chris Weaver, *The GeoVISTA Center and Department of Geography, Penn State University*

Organization

Ebad Banissi, *London South Bank University, UK*
Anita D'Pour, *GraphicsLink*

Website

Tomi Heimonen, *University of Tampere, FI*
Harri Siirtola, *University of Tampere, FI*

International Program Committee and Reviewers

Natalia Andrienko, *Fraunhofer Institute AIS, DE*

Ebad Banissi, *South Bank University London, UK*

Nadia Boukhelifa, *University of Kent, UK*

Ed Chi, *Palo Alto Research Center (PARC), USA*

Urska Cvek, *Louisiana State University, USA*

Jason Dykes, *City University, UK*

Stephen G. Eick, *SSS Research, Inc. and University of Illinois at Chicago, USA*

Sara Fabrikant, *University of Zurich, CH*

Georg Gartner, *TU Wien, AT*

Georges Grinstein, *University of Massachusetts Lowell, USA*

John Grundy, *University of Auckland, NZ*

Diansheng Guo, *University of South Carolina, USA*

Helwig Hauser, *VRVis Research Center in Vienna, AT*

Anton Heijs, *Treparel, NL*

Daryl H. Hepting, *University of Regina, USA*

Harry Hochheiser, *National Institute on Aging/National Institutes of Health, USA*

Heike Hofmann, *Iowa State University, USA*

John Hosking, *University of Auckland, NZ*

Bin Jiang, *University of Gävle, SE*

Daniel Keim, *Konstanz University, DE*

Menno-Jan Kraak, *Institute for Geo-Information Science and Earth Observation, NL*

Jim Morey, *Wesleyan College, USA*

Chris North, *Virginia Tech, USA*

Andrea Omicini, *Università di Bologna a Cesena, IT*

Tim Pattison, *Defence Science & Technology Organisation, AU*

Catherine Plaisant, *HCIL, Univ. Maryland, USA*

Rameshsharma Ramloll, *Idaho State University, USA*

Theresa-Marie Rhyne, *North Carolina State University, USA*

Peter Rodgers, *University of Kent, UK*

Stuart Rose, *Pacific Northwest National Laboratory, USA*

Greg Ross, *University of Glasgow, UK*

Cristina Russo Dos Santos, *Institut Eurecom, FR*

Jinwook Seo, *Children's Research Institute, USA*

Harri Siirtola, *University of Tampere, FI*

Edward Suvanaphen, *University of Kent, UK*

Martin Theus, *Universiaet Augsburg, DE*

Sabine Timpf, *University of Zurich, CH*

Marjan Trutschl, *Louisiana State University, USA*

Antony Unwin, *University Augsburg, DE*

Matthew Ward, *Worcester Polytechnic Institute, USA*

Pak Chung Wong, *Pacific Northwest National Laboratory, USA*

Allison Woodruff, *Intel Research Berkeley, USA*

Burkhard Wuensche, *University of Auckland, NZ*

Beth Yost, *Virginia Tech, USA*