

Foreword

The 22nd International Conference on Conceptual Modeling (ER 2003) returned to Chicago after an absence of 18 years. Chicago, a city well known for its trendsetting and daring architecture, has met the new century with a renewed commitment to open public spaces and human interaction. Thus it provided a fitting venue for ER 2003, the scope of which was expanded to encompass all aspects of conceptual modeling in order to deal with constantly changing information technology and business practices and to accommodate a new openness in connecting systems to each other and to human users.

The ER 2003 Program Co-chairs, Il-Yeol Song, Stephen Liddle, and Tok Wang Ling, along with an outstanding Program Committee assembled one of the finest technical programs of this conference series. In keeping with the tradition of previous ER conferences, the program for ER 2003 also included four preconference workshops, two preconference tutorials, two conference tutorials, two panels, and a demos and poster session. The Program Co-chairs, as well as Manfred Jeusfeld and Óscar Pastor (Workshop Co-chairs), Ee-Peng Lim and Tobey Teorey (Tutorial Co-chairs), Avigdor Gal and Elisa Bertino (Panel Co-chairs), and Heinrich Mayr (Demos and Poster Chair), deserve our appreciation for an excellent job. It was a pleasure working with all of them.

I was extremely lucky to work with Kathi Hogshead Davis, the Organizing Chair, who along the road also took on the role of Treasurer, and gracefully ended up doing more work than she originally contracted for. Bamshad Mobasher was an energetic Local Arrangements Chair, and Rokia Missaoui gave very helpful service as Publicity Chair. I thank them and all the other members of the Organizing Committee for their dedication and professionalism.

I also express my sincere appreciation to the members of the ER Steering Committee, in particular to David Embley (Chair), Bernhard Thalheim (Vice-Chair), Jacky Akoka (ER2003 Liaison), and Peter Chen (Emeritus) for their continuing advice and vision.

Thanks are due too to all the sponsors for their support. And to all the attendees who contributed to the success of this conference, I am confident that you found the program of ER 2003 to be exciting and that our meeting, combined with the city of Chicago, provided a memorable experience for all of you.

Preface

The 22nd International Conference on Conceptual Modeling (ER 2003) was held in Chicago, Illinois, October 13–16, 2003. The annual ER conference provides a forum for presenting and discussing current research and applications in which conceptual modeling is the major emphasis. Since its inception in 1979, the ER conference has become the most prestigious scientific conference covering conceptual modeling research and applications. The theme of ER 2003 was “conceptual modeling for the future.” The purpose of the conference was to identify challenging problems facing conceptual modeling of future information systems and to shape future research directions by soliciting and reviewing high-quality applied and theoretical research contributions. We solicited forward-looking and innovative papers that identified promising areas for future conceptual modeling research as well as traditional approaches to analysis and design theory for information systems development.

The call for papers resulted in 153 excellent submissions of research papers from more than two dozen countries. Due to space limitations, we were only able to accept 38 papers from 19 countries, for an acceptance rate of 24.8%. Inevitably, many good papers had to be rejected. The accepted papers covered topics such as ontologies, patterns, workflow, metamodeling and methodology, innovative approaches to conceptual modeling, foundations of conceptual modeling, advanced database applications, systems integration, requirements and evolution, queries and languages, Web application modeling and development, schema and ontology integration, and data mining.

We were pleased with the quality of this year’s program, from the keynote speeches to the workshops, panels, tutorials, industrial papers, and research papers. Many people helped make ER 2003 successful. We appreciated the outstanding keynote addresses by the renowned scholars Erich Neuhold, Stuart Madnick, and Michael Carey, and we thank James Odell for his excellent industrial keynote speech. We appreciate the diligent work of the organizing committee. Most of all, we are extremely grateful to the program committee members of ER 2003 who generously spent their time and energy reviewing submitted papers. We also thank the many external referees who helped with the review process. Finally, we thank the authors who wrote strong research papers and submitted them to ER 2003.

October 2003

Il-Yeol Song
Stephen W. Liddle
Tok Wang Ling

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External Referees

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|----------------------------------|-----------------------------|
| Samuil Angelov | Chengfei Liu |
| Maria Bergholtz | Zhenyu Liu |
| Stefano Borgo | Federica Mandreoli |
| Sven Casteleyn | Renata de Matos Galante |
| Li Chen | Raimundas Matulevicius |
| Wan-Sup Cho | Ibrahim Mescioglu |
| Cecil Eng Huang Chua | Gillian Miller |
| Daniela Damm | Ralf Muhlberger |
| Michael Derntl | Jeffrey Parsons |
| Pascal van Eck | Vanessa de Paula Braganholo |
| Li Feng | Vicente Pelechano |
| Renato Ferreira | Günter Preuner |
| George Feuerlicht | Shazia Sadiq |
| Ed Glantz | Jennifer Sampson |
| Matteo Golfarelli | Giuseppe Santucci |
| Mathias Goller | Monica Scannapieco |
| Cesar Gonzalez Guido Governatori | Isamu Shioya |
| Ramanathan Guha | Masataro Shiroiwa |
| Giancarlo Guizzardi | Anastasiya Sotnykova |
| Farshad Hakimpour | Darijus Strasunskas |
| Sari Hakkarainen | Markus Stumptner |
| Jean Henrard | Hong Su |
| Mauricio Hernandez | Yong Tan |
| Teruhisa Hochin | Philippe Thiran |
| Anne Hoffmann | Takashi Tomii |
| Zhengrui Jiang | Arvind Tripathi |
| Zoubida Kedad | Karthikeyan Umapathy |
| Maurice van Keulen | Petko Valtchev |
| Vijay Khatri | Yannis Velegrakis |
| Henry Kim | Csaba Veres |
| Stephen Kimani | Fusheng Wang |
| Subodha Kumar | Melanie Weis |
| Juliano P. Lage | Lingling Yan |
| Stephan Lechner | Liang-Huai Yang |
| Sang-Ho Lee | Li Xu |
| Maurizio Lenzerini | Jeffrey Xu Yu |
| Jiuyong Li | Yijun Yu |
| Xue Li | Zhongju Zhang |
| Yun Lin | Huimin Zhao |

Tutorials

Object-Process Methodology and Its Application to the Visual Semantic Web

Dov Dori, Technion, Israel and MIT, USA

Data Modeling Using XML

Murali Mani, UCLA, USA

Antonio Badia, University of Louisville, USA

Understanding Metamodeling

Brian Henderson-Sellers, Sydney University of Technology, Australia

Data Analytics for Customer Relationship Management

Jaideep Srivastava, University of Minnesota, USA

Workshops

eCOMO 2003

4th International Workshop on Conceptual Modeling Approaches for E-Business

Co-chairs: Heinrich C. Mayr, University of Klagenfurt, Austria

Willem-Jan van den Heuvel, Tilburg University, The Netherlands

IWCMQ 2003

International Workshop on Conceptual Modeling Quality

Co-chairs: Marcela Género, University of Castilla-La Mancha, Spain

Jim Nelson, Ohio State University, USA

Geert Poels, Ghent University, Belgium

AOIS 2003

5th International Workshop on Agent-Oriented Information Systems

Co-chairs: Paolo Giorgini, University of Trento, Italy

Brian Henderson-Sellers, University of Technology, Sydney

XSDM 2003

International Workshop on XML Schema and Data Management

Chair: Sanjay K. Madria, University of Missouri-Rolla, USA

See LNCS vol. 2814 for the workshop proceedings.

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