Preface

The Database and Expert Systems Applications (DEXA) conferences have established themselves as a platform for bringing together researchers and practitioners from various backgrounds and all regions of the world to exchange ideas, experiences and opinions in a friendly and stimulating environment. The papers presented at the conference represent recent developments in the field and important steps towards shaping the future of applied computer science and information systems.

DEXA covers a broad field: all aspects of databases, knowledge based systems, knowledge management, web-based systems, information systems, related technologies and their applications. Once again there were a good number of submissions: out of 183 papers that were submitted, the program committee selected 92 to be presented.

In the first year of this new millennium DEXA has come back to the United Kingdom, following events in Vienna, Berlin, Valencia, Prague, Athens, London, Zurich, Toulouse, Vienna and Florence. The past decade has seen several revolutionary developments, one of which was the explosion of Internet-related applications in the areas covered by DEXA, developments in which DEXA has played a role and in which DEXA will continue to play a role in its second decade, starting with this conference.

I would at this point like to express thanks to all the institutions which actively supported this conference and made it possible; namely:

- University of Greenwich
- Institut f
 ür Anwendungsorientierte Wissensverarbeitung (FAW), Universit
 ät
 Linz
- Austrian Computer Society
- DEXA Association

Many people contributed numerous hours to the success of this conference. Special thanks go to Maria Schweikert (Technische Universität Wien), Monika Neubauer and Gabriela Wagner (FAW, Universität Linz). We must also thank all members of the program committee, whose careful reviews are important to the quality of the conference, and the local organisers, who have put a lot of time and effort into making DEXA feel at home in Greenwich.

July 2000

Gerald Quirchmayr, Universität Wien, Austria General Chair

Program Committee

General Chairperson:

G. Quirchmayr, University of Vienna, Austria

Conference Program Chairpersons:

M. Ibrahim, University of Greenwich, UK

J. Küng, FAW, University of Linz, Austria

N. Revell, Middlesex University, UK

Publication Chairperson:

V. Marik, Czech Technical University, Czech Republic

Workshop Chairpersons:

A M. Tjoa, Technical University of Vienna, Austria

R.R. Wagner, FAW, University of Linz, Austria

A. Al-Zobaidie, University of Greenwich, UK

Executive Chairperson

M. Everitt, University of Greenwich, UK

Local Arrangements

R.D. Finney, University of Greenwich, UK

Program Committee Members:

H. Afsarmanesh, University of Amsterdam, The Netherlands

A. Al-Zobaidie, University of Greenwich, United Kingdom

J. Albrecht, University of Erlangen-Nuremberg, Germany

B. Amann, CNAM&INRIA, France

F. Andres, NACSIS, Japan

K. Bauknecht, University of Zurich, Switzerland

T. Bench-Capon, University of Liverpool, UK

B. Bhargava, Purdue University, USA

J. Bing, NRCCL Oslo, Norway

P. Bosc, ENSSAT, France

O. Bukhres, Purdue University, USA

L. Camarinha-Matos, New University of Lisbon, Portugal

A. Cammelli, IDG-CNR, Italy

W.S. Cellary, University of Economics at Poznan, Poland

S. Chakravarthy, University of Florida, USA

S. Christodoulakis, University of Crete, Greece

P. Chrysanthis, University of Pittsburgh, USA

P. Ciaccia, University of Bologna, Italy

C. Collet, LSR-IMAG, France

C. Combi, University of Udine, Italy

D. Cowell, University of Greenwich, United Kingdom

W.B. Croft, University of Massachusetts, USA

J. Debenham, University of Technology, Sydney, Australia

M. Deen, University of Keele, UK

J. Eder, University of Klagenfurt, Austria

T. Eiter, Technical University of Vienna, Austria

G. Engels, University of Paderborn, Germany

- P. Fankhauser, GMD, Germany
- E. Fernandez, Florida Atlantic University, USA
- S. Field, IBM Zurich, Switzerland
- P. Funk, Mälardalen University, Sweden
- A.L. Furtado, University of Rio de Janeiro, Brazil
- G. Gardarin, INRIA, France
- S. Ghandeharizadeh, University of Southern California, USA
- P. Godfrey, York University, Canada
- G. Gottlob, Vienna University of Technology, Austria
- P. Grefen, University of Twente, The Netherlands
- U. Hahn, University of Freiburg, Germany
- J.-L. Hainault, University of Namur, Belgium
- A. Hameurlain, Université Paul Sabatier, France
- I. Hawryszkiewycz, University of Technology, Sydney, Australia
- Y. Kambayashi, University of Kyoto, Japan
- M. Kamel, Naval Postgraduate School, USA
- N. Kamel, American University in Cairo, Egypt
- G. Kappel, University of Linz, Austria
- D. Karagiannis, University of Vienna, Austria
- K. Karlapalem, University of Science and Technology, Hong Kong
- R. Keller, University of Montreal, Canada
- M.H. Kim, KAIST, Korea
- B. Knight, University of Greenwich, UK
- J. Kouloumdjian, LISI-INSA, France
- P. Kroha, Technical University of Chemnitz, Germany
- J. Lazansky, Czech Technical University, Czech Republic
- M. Leonard, University of Geneve, Switzerland
- T.W. Ling, University of Singapore, Singapore
- W. Litwin, University Paris 9, France
- M. Liu, University of Regina, Canada
- F. Lochovsky, University of Science and Technology, Hong Kong
- P. Loucopoulos, University of Science and Technology in Manchester, United Kingdom
- S.K. Madria, Purdue University, USA
- A. Makinouchi, Kyushu University, Japan
- H. Mannila, Microsoft Research, USA
- V. Marik, Czech Technical University, Czech Republic
- S. Marinai, University of Florence, Italy
- S. Mazumdar, New Mexico Institute of Mining and Technology, USA
- R. Meersman, Free University of Brussels, Belgium
- E. Metais, University of Versailles, France
- M. Mohania, Western Michigan University, USA
- S. Monties, EPFL, Switzerland
- T. Morzy, Poznan University of Technology, Poland
- G. Müller, University of Freiburg, Germany
- W. Nagvi, Raytheon Systems Company, USA
- E. Neuhold, GMD-IPSI, Germany
- G. Ozsoyoglu, University Case Western Research, USA
- G. Pangalos, University of Thessaloniki, Greece
- B. Pernici, Politecnico di Milano, Italy
- G. Pernul, University of Essen, Germany
- G. Quirchmayr, University of Vienna, Austria
- F. Rabitti, CNUCE-CNR, Italy

VIII Program Committee

- I. Ramos, Technical University of Valencia, Spain
- H. Reiterer, University of Konstanz, Germany
- N. Revell, Middlesex University, UK
- C. Rolland, University Paris I, France
- E. Rundensteiner, Worcester Polytechnic Institute, USA
- M.E. Rusinkiewicz, MCC, USA
- D. Sacca, University of Calabria, Italy
- M. Savonnet, University of Bourgogne, France
- E. Schweighofer, University of Vienna, Austria
- T. Sellis, NTU Athens, Greece
- M. Smith, University of California, USA
- G. Soda, University of Florence, Italy
- H. Sonnberger, EUROSTAT, Luxemburg
- U. Srinivasan, CIRO, Australia
- O. Stepankova, Czech Technical University, Czech Republic
- D. Stott Parker, University of Los Angeles, USA
- V.S. Subrahmanian, University of Maryland, USA
- J. Suzuki, Keio University, Japan
- M. Takizawa, Tokyo Denki University, Japan
- K. Tanaka, Kobe University, Japan
- Z. Tari, RMIT, Australia
- S. Teufel, University of Oldenburg, Germany
- J. Teuhola, University of Turku, Finland
- B. Thalheim, Technical University of Cottbus, Germany
- J.M. Thevenin, University Paul Sabatier, France
- C.H. Thoma, IT pro, Switzerland
- R. Traunmüller, University of Linz, Austria
- P. Triantafillou, Technical University of Crete, Greece
- A. Tsalgatidou, University of Athens, University of Jyväskylä, Greece, Finland
- S. Urban, Arizona State University, USA
- K. Vidyasankar, Memorial University of Newfoundland, Canada
- Y. Wand, University of British Columbia, Canada
- M. Wing, Middlesex University, UK
- W. Winiwarter, University of Vienna, Austria
- A. Zaslawsky, Monash University, Australia

External Referees

- I. Pramudiono, University of Tokyo, Japan
- I. Karali, University of Athens, Greece
- A. Pikrakis, University of Athens, Greece
- C. Vasilakis, University of Athens, Greece
- M. Nikolaidou, University of Athens, Greece
- E. Berki, University of Jyvaskyla, Finland
- J.H. Canós, Universitat Politecnica de Valencia, Spain
- N. Rodriguez Brisaboa, Universitat Politecnica de Valencia, Spain
- J.C. Casamayor, Universitat Politecnica de Valencia, Spain
- E. Mena, Universitat Politecnica de Valencia, Spain
- E. I. Benitez-Guerrero, IMAG-LSR Laboratory, France
- G. Vargas-Solar, IMAG-LSR Laboratory, France
- A. Lefebvre, France Telecom R&D, France