

Preface

We are very happy to present the proceedings of the 8th International Workshop on Interactive Distributed Multimedia Systems – IDMS 2001, in co-operation with ACM SIGCOMM and SIGMM. These proceedings contain the technical programme for IDMS 2001, held September 4–7, 2001 in Lancaster, UK.

For the technical programme this year we received 48 research papers from both academic and industrial institutions all around the world. After the review process, 15 were accepted as full papers for publication, and a further 8 as short positional papers, intended to provoke debate. The technical programme was complimented by three invited papers: “QoS for Multimedia – What’s Going to Make It Pay?” by Derek McAuley, “Enabling the Internet to Provide Multimedia Services” by Markus Hofmann, and “MPEG-21 Standard: Why an Open Multimedia Framework?” by Fernando Pereira.

The organisers are very grateful for the help they received to make IDMS 2001 a successful event. In particular, we would like to thank the PC for their first class reviews of papers, particularly considering the tight reviewing deadlines this year. Also, we would like to acknowledge the support from Agilent, BText Technologies, Hewlett Packard, Microsoft Research, Orange, and Sony Electronics – without whom IDMS 2001 would not have been such a memorable event.

We hope that readers will find these proceedings helpful in their future research, and that IDMS will continue to be an active forum for the discussion of distributed multimedia research for years to come.

June 2001

D. Shepherd
J. Finney
L. Mathy
N. Race

Welcome from the Minister of State for Lifelong Learning and Higher Education

To the participants of the 8th International Workshop on Interactive Distributed Multimedia Systems:

I am delighted to welcome you all to the IDMS 2001 workshop in Lancaster, and indeed welcome many of you to the UK. We see throughout the world that conferences are being held to try to educate people in the area of distributed computing as it becomes an increasingly important part of the information society we live in. I am happy to see that the University of Lancaster are part of this drive by hosting this international conference.

I send you my best wishes for a successful workshop and hope that this opportunity to present interesting research results to a broad professional audience gives stimulus for collaboration and further progress in the field.

I wish all participants a pleasant stay in Lancaster.

A handwritten signature in black ink, reading "Margaret Hodge". The signature is written in a cursive style with a large initial 'M'.

Margaret Hodge
Minister of State for Lifelong Learning and Higher Education

Welcome to the Computing Department at Lancaster University

I'd like to extend a very warm welcome to all participants to IDMS 2001. We're particularly pleased that IDMS has come to Lancaster this year where the Distributed Multimedia Research Group has played such a prominent role in the distributed multimedia systems research community over the last 10 years.

As a rather envious outsider it has struck me how successful the distributed multimedia systems community has been in tapping the pool of research talent. In recent years at Lancaster, we have enjoyed a very strong flow of students through our Doctoral programme, from our own undergraduate programme and from elsewhere. In large measure, this has been due to the buzz generated by research in distributed multimedia systems and I'm sure this is reflected in other research and development centres.

However, we have seen this phenomenon before, where hot research areas soak up talent and resources. Thankfully, what distinguishes the distributed multimedia systems community is the coexistence of three key factors: it addresses a real economic and societal need; it has attracted the resources and backing needed to make it work; and, crucially, it is delivering. Computer Science needs challenging, high profile and successful areas like this to keep the discipline healthy.

I hope you have a great time at IDMS 2001.

Pete Sawyer
Head of Computing
Lancaster University

Organisation

Programme Chair

Doug Shepherd, Lancaster University, United Kingdom

Programme Committee

Arturo Azcorra, University Carlos III, Madrid, Spain
Gregor v. Bochmann, University of Ottawa, Canada
Jan Bormans, IMEC, Belgium
Berthold Butscher, GMD-FOKUS, Germany
Andrew Campbell, Columbia University, USA
Tim Chown, University of Southampton, United Kingdom
Luca Delgrossi, University of Piacenza, Italy
Michel Diaz, LAAS-CNRS, France
Jordi Domingo-Pascual, Politechnic University of Catalonia, Spain
Wolfgang Effelsberg, University of Mannheim, Germany
Frank Eliassen, University of Oslo, Norway
Serge Fdida, LiP6, France
Joe Finney, Lancaster University, United Kingdom
Vera Goebel, University of Oslo, Norway
Tobias Helbig, Philips Research Laboratories, Germany
David Hutchison, Lancaster University, United Kingdom
Winfried Kalfa, TU Chemnitz, Germany
Guy Leduc, University of Liege, Belgium
Laurent Mathy, Lancaster University, United Kingdom
Ketan Mayer-Patel, University of North Carolina, USA
Jason Nieh, Columbia University, USA
Philippe Owezarski, LAAS-CNRS, France
Fernando Pereira, Instituto Superior Tecnico, Portugal
Thomas Plagemann, University of Oslo, Norway
Timothy Roscoe, Sprint Labs, USA
Hans Scholten, University of Twente, The Netherlands
Patrick Senac, ENSICA, France
Marten van Sinderen, University of Twente, The Netherlands
Greg O'Shea, Microsoft Research Cambridge, United Kingdom
Ralf Steinmetz, TU Darmstadt/GMD, Germany
Fred Stentiford, BTextact Research, United Kingdom
Burkhard Stiller, ETH Zurich, Switzerland
Giorgio Ventre, University Federico II, Napoli, Italy
Lars Wolf, University of Karlsruhe, Germany

Local Organisation

Joe Finney, Lancaster University, United Kingdom
Nicholas Race, Lancaster University, United Kingdom
Laurent Mathy, Lancaster University, United Kingdom
Barbara Hickson, Lancaster University, United Kingdom
Stefan Schmid, Lancaster University, United Kingdom
Daniel Prince, Lancaster University, United Kingdom

Supporting and Sponsoring Organisations (Alphabetically)

ACM SIGCOMM
ACM SIGMM
Agilent
BTextact Technologies
Hewlett Packard
Microsoft Research
Orange
Sony Electronics

Interactive Distributed Multimedia Systems

8th International Workshop, IDMS 2001, Lancaster, UK,

September 4-7, 2001. Proceedings

Shepherd, D.; Finney, J.; Mathy, L.; Race, N. (Eds.)

2001, XIV, 262 p., Softcover

ISBN: 978-3-540-42530-4