

Lecture Notes in Artificial Intelligence 5223

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Gem Stapleton John Howse John Lee (Eds.)

Diagrammatic Representation and Inference

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Series Editors

Randy Goebel, University of Alberta, Edmonton, Canada

Jörg Siekmann, University of Saarland, Saarbrücken, Germany

Wolfgang Wahlster, DFKI and University of Saarland, Saarbrücken, Germany

Volume Editors

Gem Stapleton

Computing, Mathematical and Information Sciences

University of Brighton

Brighton, UK

E-mail: G.E.Stapleton@brighton.ac.uk

John Howse

Computing, Mathematical and Information Sciences

University of Brighton

Brighton, UK

E-mail: John.Howse@brighton.ac.uk

John Lee

Human Communication Research Centre

University of Edinburgh

Informatics Forum

Edinburgh, Scotland, UK

E-mail: J.Lee@ed.ac.uk

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Preface

Diagrams is an international and interdisciplinary conference series, covering all aspects of research on the theory and application of diagrams.

Recent technological advances have enabled the large-scale adoption of diagrams in a diverse range of areas. Increasingly sophisticated visual representations are emerging and, to enable effective communication, insight is required into how diagrams are used and when they are appropriate for use. The pervasive, everyday use of diagrams for communicating information and ideas serves to illustrate the importance of providing a sound understanding of the role that diagrams can, and do, play. Research in the field of diagrams aims to improve our understanding of the role of diagrams, sketches and other visualizations in communication, computation, cognition, creative thought, and problem solving. These concerns have triggered a surge of interest in the study of diagrams.

The study of diagrammatic communication as a whole must be pursued as an interdisciplinary endeavour. Diagrams 2008 was the fifth event in this conference series, which was launched in Edinburgh during September 2000. Diagrams attracts a large number of researchers from virtually all related fields, placing the conference as a major international event in the area.

Diagrams is the only conference that provides a united forum for all areas that are concerned with the study of diagrams: for example, architecture, artificial intelligence, cartography, cognitive science, computer science, education, graphic design, history of science, human-computer interaction, linguistics, logic, mathematics, philosophy, psychology, and software modelling. We see issues from all of these fields discussed in the papers collected in the present volume.

For the 2008 conference, no preferred theme was specified, with the result that the interdisciplinary range was perhaps broader than ever. Contributions were solicited in the categories long paper, short paper and poster. Submissions were received representing both academia and industry, from 24 countries. Of 70 papers submitted, 25 were accepted for either long or short presentations, an acceptance rate of 36%, demonstrating that the conference continues to offer an outlet as high in quality as it is unique in breadth. This year, a substantial number of posters contributed to the range of work presented. All submissions were reviewed by members of the large and distinguished International Program Committee, or by reviewers that they nominated. The papers and posters were augmented by three highly distinguished keynote presentations—perfectly representing both the quality and breadth of the conference as a whole—and two excellent tutorials.

For the first time in its history, Diagrams was co-located, running in conjunction with the IEEE Symposium on Visual Languages and Human-Centric Computing and the ACM Symposium on Software Visualization, as part of Visual Week. This co-location provided a lively and stimulating environment, enabling

researchers from related communities to exchange ideas and more widely disseminate research results. The program featured joint keynote speakers (including Wilhelm Schäfer), and joint sessions (including the papers under “Diagram Aesthetics and Layout” in this volume).

Any successful conference depends on the efforts of a large team of people, and Diagrams is no exception. The hard work of the Program Committee is paramount in ensuring the quality and substance of the conference, and we are greatly indebted to their dedication and generosity with their time. This volume is evidence of the important support of our publishers, Springer, and especially Ursula Barth. Barbara Wirtz of the *Haus der bayerischen Landwirtschaft* provided invaluable assistance with the conference venue. As noted, Diagrams 2008 was co-located with Visual Week, but also very nearly with the celebrated Munich Oktoberfest! There was therefore an exceptional effort by Local Chair Mark Minas and his team, including Steffen Mazanek, Sonja Maier (who oversaw Oktoberfest arrangements), and Florian Brieler (who created the registration Web page). Alan Blackwell helped greatly with finding the Diagrams tutorials.

Sponsors are vital to any successful conference, and we are delighted to acknowledge the generous support of the Cognitive Science Society, for the Best Student Paper award, and Nokia for providing two N810s as Best Paper prizes as well as financial support.

Finally, we would like to thank all of the organizers mentioned on the following pages, and our own institutions, the University of Brighton and the University of Edinburgh. We are especially grateful for the indispensable assistance of our administrator, Carol Suwala in Brighton.

July 2008

Gem Stapleton
John Howse
John Lee

VIII Organization

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Richard Bosworth
Andrew Fish
Unmesh Kurup

Laura Meikle
Matthew Ridsdale
Andrew Seniuk
John Taylor
Sean Wilson
Graham Winstanley
Michael Wybrow
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