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Weiru Liu (Ed.)

Symbolic and Quantitative Approaches to Reasoning with Uncertainty

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Preface

The biennial ECSQARU conference is a major forum for advances in the theory and practice of reasoning under uncertainty. Contributions are expected to come from both researchers who are interested in advancing the technology and practitioners who use uncertainty techniques in applications. The scope of ECSQARU includes, but is not limited to, fundamental issues, representation, inference, learning, and decision making in qualitative and numeric paradigms.

Previous ECSQARU conferences were held in Marseille (1991), Granada (1993), Fribourg (1995), Bonn (1997), London (1999), Toulouse (2001), Aalborg (2003), Barcelona (2005), Hammamet (2007), and Verona (2009).

The 11th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty (ECSQARU 2011) was held in Belfast, UK, from June 29 to July 1, 2011, with a particular focus on unifying logic and uncertainty reasoning approaches for solving complex problems. ECSQARU 2011 also featured PhD Forum Posters and the Workshop on “Uncertainty Reasoning and Multi-agent Systems for Sensor Networks (URMASSN 2011)”.

The best paper from ECSQARU 2011, “Measuring Consistency Gain and Information Loss in Stepwise Inconsistency Resolution” by John Grant and Anthony Hunter, was chosen to represent ECSQARU in the Large Track of Best Papers from Sister Conferences at IJCAI 2011.

The papers in this volume were selected from 108 submissions, after a strict review process by the members of the Program Committee. In addition, the volume contains three invited talks by three outstanding researchers in the field, Didier Dubois, Dov Gabbay, and Joe Halpern.

I would like to thank all the members of the Program Committee and the additional reviewers for their timely and valuable reviews. I would also like to thank the members of the local Organizing Committee and the additional support team for their hard work and contribution to the success of the conference. Finally, financial support from CSIT (Centre for Secure Information Technologies), the School of Electronics, Electrical Engineering and Computer Science at Queen’s University Belfast, and Belfast City Council is greatly appreciated.

April 2011

Weiru Liu

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