Programme Chairs’ Introduction

This volume comprises the refereed papers presented at AI-2013, the Thirty-third SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence, held in Cambridge in December 2013 in both the technical and the application streams. The conference was organised by SGAI, the British Computer Society Specialist Group on Artificial Intelligence.

The technical papers included new and innovative developments in the field, divided into sections on Knowledge Discovery and Data Mining I, Knowledge Discovery and Data Mining II, Intelligent Agents, Representation and Reasoning, and Machine Learning and Constraint Programming. This year’s Donald Michie Memorial Award for the best refereed technical paper was won by a paper entitled “Pattern Graphs: Combining Multivariate Time Series and Labelled Interval Sequences for Classification” by S. Peter (University of Konstanz, Germany), F. Höppner (Ostfalia University of Applied Sciences, Wolfenbüttel, Germany) and M. R. Berthold (University of Konstanz, Germany).

The application papers included present innovative applications of AI techniques in a number of subject domains. This year, the papers are divided into sections on Medical Applications, Applications in Education and Information Science, and AI Applications. This year’s Rob Milne Memorial Award for the best refereed application paper was won by a paper entitled “Knowledge formalisation for hydrometallurgical gold ore processing” by Christian Severin Sauer (University of West London, UK), Lotta Rintala (Aalto University, Finland) and Thomas Roth-Berghofer (University of West London).

The volume also includes the text of short papers presented as posters at the conference.

On behalf of the conference organising committee we would like to thank all those who contributed to the organisation of this year’s programme, in particular the programme committee members, the executive programme committees and our administrators Mandy Bauer and Bryony Bramer.

Max Bramer, Technical Programme Chair, AI-2013.
Miltos Petridis, Application Programme Chair, AI-2013.
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