

# Research and Development in Intelligent Systems XXIX

Incorporating Applications and Innovations  
in Intelligent Systems XX



Max Bramer • Miltos Petridis  
Editors

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SGAI International Conference on Innovative  
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## **PROGRAMME CHAIRS' INTRODUCTION**

M.A.BRAMER, University of Portsmouth, UK

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This volume comprises the refereed papers presented at AI-2012, the Thirty-second SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence, held in Cambridge in December 2012 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 Data Mining, Data Mining and Machine Learning, Planning and Optimisation, and Knowledge Management and Prediction. This year's Donald Michie Memorial Award for the best refereed technical paper was won by a paper entitled "Biologically inspired speaker verification using Spiking Self-Organising Map" by Tariq Tashan, Tony Allen and Lars Nolle (Nottingham Trent University, UK).

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 Language and Classification, Recommendation, Practical Applications and Systems, and Data Mining and Machine Learning

This year's Rob Milne Memorial Award for the best refereed application paper was won by a paper entitled "Swing Up and Balance Control of the Acrobot Solved by Genetic Programming" by Dimitris C. Dracopoulos and Barry D. Nichols (University of Westminster).

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-2012

Miltos Petridis, Application Programme Chair, AI-2012

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