




Tony Allen  
Richard Ellis  
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**AI**  
**2008**

# Applications and Innovations in Intelligent Systems XVI

Proceedings of AI-2008,  
The Twenty-eighth SGAI International  
Conference on Innovative Techniques and  
Applications of Artificial Intelligence

 Springer

# Applications And Innovations In Intelligent Systems X

**Ann Macintosh, Richard Ellis, Frans  
Coenen**



## **Applications And Innovations In Intelligent Systems X:**

**Applications and Innovations in Intelligent Systems X** Ann Macintosh, Richard Ellis, Frans Coenen, 2012-12-06 The papers in this volume are the referred Applications papers presented at ES 2002 the Twenty second SGES international Conference on Knowledge Based Systems and Applied Artificial Intelligence to be held in Cambridge during December 2002 The Application stream is the largest annual showcase in Europe of real applications using AI technology Papers presented in this volume describe the application of AI to address real world problems including commerce manufacturing and defence and every major AI technique and highlight critical areas of success and failure and present the benefits and lessons of value to other developers This is the tenth volume in the Applications and Innovations in Intelligent Systems series The series serves as a key reference as to how AI technology has enabled organisations to solve complex problems and gain significant business benefits The Technical Stream papers are published as a companion volume under the title Research and Development in Intelligent Systems XIX *Applications and Innovations in Intelligent Systems XII* Ann Macintosh, Richard Ellis, Tony Allen, 2007-12-31 A L Macintosh Napier University UK The papers in this volume are the refereed application papers presented at ES2004 the Twenty fourth SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence held in Cambridge in December 2004 The conference was organised by SGAI the British Computer Society Specialist Group on Artificial Intelligence This volume contains twenty refereed papers which present the innovative application of a range of AI techniques in a number of subject domains This year the papers are divided into sections on Synthesis and Prediction Scheduling and Search Diagnosis and Monitoring Classification and Design and Analysis and Evaluation This year s prize for the best refereed application paper which is being sponsored by the Department of Trade and Industry was won by a paper entitled A Case Based Technique for Tracking Concept Drift in Spam Filtering The authors are Sarah Jane Delany from the Dublin Institute of Technology Ireland and Pdraig Cunningham Alexey Tsymbal and Lorcan Coyle from Trinity College Dublin Ireland This is the twelfth volume in the Applications and Innovations series The Technical Stream papers are published as a companion volume under the title Research and Development in Intelligent Systems XXI On behalf of the conference organising committee I should like to thank all those who contributed to the organisation of this year s application programme in particular the programme committee members the executive programme committee and our administrators Linsay Turbert and Collette Jackson *Applications and Innovations in Intelligent Systems XI* Richard Ellis, Ann Macintosh, 2012-12-06 M A Bramer University of Portsmouth UK This volume comprises the refereed application papers presented at AI 2003 the Twenty third SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence held in Cambridge in December 2003 The conference was organised by SGAI the British Computer Society Specialist Group on Artificial Intelligence The papers present new and innovative developments in the field divided into sections on Personalisation E Commerce and Resource Management Hazard Prediction Fault Diagnosis and Design

Medical and Social Services and Image Recognition Knowledge Bases and Attribute Selection This year's prize for the best refereed application paper which was sponsored by the Department of Trade and Industry was won by a paper entitled Design a Trial A Rule Based Decision Support System for Clinical Trial Design which has no fewer than nine authors K Nammuni C Pickering InferMed Ltd S Modgil University College London A Montgomery InferMed Ltd P Hammond University College London IC Wyatt National Institute for Clinical Excellence DG Altman Centre for Statistics in Medicine R Dunlop InferMed Ltd and H Potts Kings College London This is the eleventh volume in the Applications and Innovations series The Technical Stream papers are published as a companion volume under the title Research and Development in Intelligent Systems XX On behalf of the conference organising committee I should like to thank all those who contributed to the organisation of this year's application programme in particular the programme committee members the referees and our administrators Fiona Hartree and Lindsay Turbert *Applications and Innovations in Intelligent Systems XIV* Richard Ellis, Tony Allen, Andrew Tuson, 2010-04-05 The papers in this volume are the refereed application papers presented at AI 2006 the Twenty sixth SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence held in Cambridge in December 2006 The papers present new and innovative developments in the field The series serves as a key reference as to how AI technology has enabled organisations to solve complex problems and gain significant business benefit *Applications and Innovations in Intelligent Systems XIII* Ann Macintosh, Richard Ellis, Tony Allen, 2007-10-27 The papers in this volume are the refereed application papers presented at AI 2005 the Twenty fifth SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence held in Cambridge in December 2005 The papers present new and innovative developments in the field divided into sections on Synthesis and Prediction Scheduling and Search Diagnosis and Monitoring Classification and Design and Analysis and Evaluation This is the thirteenth volume in the Applications and Innovations series The series serves as a key reference on the use of AI Technology to enable organisations to solve complex problems and gain significant business benefits The Technical Stream papers are published as a companion volume under the title Research and Development in Intelligent Systems XXII *Applications and Innovations in Intelligent Systems XVI* Tony Allen, Richard Ellis, Milos Petridis, 2010-06-07 Swallowing sound recognition is an important task in bioengineering that could be employed in systems for automated swallowing assessment and diagnosis of abnormally high rate of swallowing aerophagia 1 which is the primary mode of ingesting excessive amounts of air and swallowing dysfunction dysphagia 2 5 that may lead to aspiration choking and even death Dysphagia represents a major problem in rehabilitation of stroke and head injury patients In current clinical practice videofluoroscopic swallow study VFSS is the gold standard for diagnosis of swallowing disorders However VFSS is a time consuming procedure performed only in a clinical setting VFSS also results in some radiation exposure Therefore various non invasive methods are proposed for swallowing assessment based on evaluation of swallowing signals recorded by microphones and or accelerometers and analyzed by

digital signal processing techniques 2 5 Swallowing sounds are caused by a bolus passing through pharynx It is possible to use swallowing sounds to determine pharyngeal phase of the swallow and characteristics of the bolus 2     **Applications and Innovations in Intelligent Systems XV** Richard Ellis,Tony Allen,Miltos Petridis,2007-12-04 The papers in this volume are the refereed application papers presented at AI 2007 the Twenty seventh SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence held in Cambridge in December 2007 The papers present new and innovative developments in the field divided into sections on Synthesis and Prediction Scheduling and Search Diagnosis and Monitoring Classification and Design and Analysis and Evaluation This is the fifteenth volume in the Applications and Innovations series The series serves as a key reference on the use of AI Technology to enable organisations to solve complex problems and gain significant business benefits The Technical Stream papers are published as a companion volume under the title Research and Development in Intelligent Systems XXIV     *Artificial Intelligence Applications and Innovations* Ilias Maglogiannis,Lazaros Iliadis,John Macintyre,Markos Avlonitis,Antonios Papaleonidas,2024-06-18 This book constitutes the refereed proceedings of the 20th IFIP WG 12 5 International Conference on Artificial Intelligence Applications and Innovations AIAI 2024 held in Corfu Greece during June 27 30 2024 The 100 full papers and 8 short papers included in this book were carefully reviewed and selected from 213 submissions The diverse nature of papers presented demonstrates the vitality of AI algorithms and approaches It certainly proves the very wide range of AI applications as well     Research and Development in Intelligent Systems XXV Frans Coenen,Miltos Petridis,2010-05-28 The papers in this volume are the refereed technical papers presented at AI 2008 the Twenty eighth SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence held in Cambridge in December 2008 They present new and innovative developments in the field divided into sections on CBR and Classification AI Techniques Argumentation and Negotiation Intelligent Systems From Machine Learning To E Learning and Decision Making The volume also includes the text of short papers presented as posters at the conference This is the twenty fifth volume in the Research and Development series The series is essential reading for those who wish to keep up to date with developments in this important field The Application Stream papers are published as a companion volume under the title Applications and Innovations in Intelligent Systems XVI     **Research and Development in Intelligent Systems XIX** Alun Preece,Frans Coenen,2012-12-06 M A BRAMER University of Portsmouth UK This volume comprises the refereed technical papers presented at ES2002 the Twenty second SGAI International Conference on Knowledge Based Systems and Applied Artificial Intelligence held in Cambridge in December 2002 The conference was organised by SGAI the British Computer Society Specialist Group on Artificial Intelligence previously known as SGES The papers in this volume present new and innovative developments in the field divided into sections on Machine Learning Knowledge Representation and Reasoning Knowledge Acquisition Constraint Satisfaction Scheduling and Natural Language Processing This year s prize for the best refereed technical paper was won by a paper entitled Covering the Path

Space A Casebase Analysis for Mobile Robot Path Planning by M Kruusmaa Department of Mechatronics Tallinn Technical University Estonia and J Willemson Department of Computer Science Tartu University Estonia SGAI gratefully acknowledges the long term sponsorship of Hewlett Packard Laboratories Bristol for this prize which goes back to the 1980s This is the nineteenth volume in the Research and Development series The Application Stream papers are published as a companion volume under the title Applications and Innovations in Intelligent Systems X On behalf of the conference organising committee I should like to thank all those who contributed to the organisation of this year s technical programme in particular the programme committee members the referees and our administrators Linsay Turbert and Helen Forster

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## **Table of Contents Applications And Innovations In Intelligent Systems X**

1. Understanding the eBook Applications And Innovations In Intelligent Systems X
  - The Rise of Digital Reading Applications And Innovations In Intelligent Systems X
  - Advantages of eBooks Over Traditional Books
2. Identifying Applications And Innovations In Intelligent Systems X
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Applications And Innovations In Intelligent Systems X
  - User-Friendly Interface
4. Exploring eBook Recommendations from Applications And Innovations In Intelligent Systems X
  - Personalized Recommendations
  - Applications And Innovations In Intelligent Systems X User Reviews and Ratings
  - Applications And Innovations In Intelligent Systems X and Bestseller Lists
5. Accessing Applications And Innovations In Intelligent Systems X Free and Paid eBooks
  - Applications And Innovations In Intelligent Systems X Public Domain eBooks
  - Applications And Innovations In Intelligent Systems X eBook Subscription Services
  - Applications And Innovations In Intelligent Systems X Budget-Friendly Options
6. Navigating Applications And Innovations In Intelligent Systems X eBook Formats

- ePub, PDF, MOBI, and More
  - Applications And Innovations In Intelligent Systems X Compatibility with Devices
  - Applications And Innovations In Intelligent Systems X Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Applications And Innovations In Intelligent Systems X
    - Highlighting and Note-Taking Applications And Innovations In Intelligent Systems X
    - Interactive Elements Applications And Innovations In Intelligent Systems X
  8. Staying Engaged with Applications And Innovations In Intelligent Systems X
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Applications And Innovations In Intelligent Systems X
  9. Balancing eBooks and Physical Books Applications And Innovations In Intelligent Systems X
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Applications And Innovations In Intelligent Systems X
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Applications And Innovations In Intelligent Systems X
    - Setting Reading Goals Applications And Innovations In Intelligent Systems X
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Applications And Innovations In Intelligent Systems X
    - Fact-Checking eBook Content of Applications And Innovations In Intelligent Systems X
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks



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