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Research and Development in Intelligent Systems XXX

Incorporating Applications and
Innovations in Intelligent Systems XXI

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Conference on Innovative Techniques
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Research And Development In Intelligent Systems Xxi

Patrick Weber,Ferdinand Dhombres,Cyril Grouin,Jan-David Liebe,Sylvia Pelayo,Andrea Pinna

Research And Development In Intelligent Systems Xxi:

   Research and Development in Intelligent Systems XXI Frans Coenen,Tony Allen,2007-12-24 M A BRAMER University of Portsmouth UK This volume comprises the refereed technical papers presented at AI 2004 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 The papers in this volume present new and innovative developments in the field divided into sections on AI Techniques I and II CBR and Recommender Systems Ontologies Intelligent Agents and Scheduling Systems Knowledge Discovery in Data and Spatial Reasoning and Image Recognition This year s prize for the best refereed technical paper was won by a paper entitled Extracting Finite Structure from Infinite Language by T McQueen A A Hopgood T J Allen and J A Tepper School of Computing Informatics Nottingham Trent University UK SGAI gratefully acknowledges the long term sponsorship of Hewlett Packard Laboratories Bristol for this prize which goes back to the 1980s This is the twenty first 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 XII 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 executive programme committee and our administrators Linsay Turbert and Collette Jackson
   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   *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 Padraig 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   *Research and Development in Intelligent Systems XVI* Max A. Bramer,Ann Macintosh,Frans Coenen,2000-01-04 This volume contains the refereed technical papers presented at ES99 the Nineteenth SGES International Conference on Knowledge Based Systems and Applied Artificial Intelligence held in Cambridge in December 1999 The papers in this volume present new and innovative developments in the field divided into sections on knowledge engineering knowledge discovery case based reasoning learning and knowledge representation and refinement This is the sixteenth 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 VII   *NoSQL Data Models* Olivier Pivert,2018-07-27 The topic of NoSQL databases has recently emerged to face the Big Data challenge namely the ever increasing volume of data to be handled It is now recognized that relational databases are not appropriate in this context implying that new database models and techniques are needed This book presents recent research works covering the following basic aspects semantic data management graph databases and big data management in cloud environments The chapters in this book report on research about the evolution of basic concepts such as data models query languages and new challenges regarding implementation issues   Research and Development in Intelligent Systems XXX Max Bramer,Miltos Petridis,2013-11-08 The papers in this volume are 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 They present new and innovative developments and applications

divided into technical stream 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 followed by application stream sections on Medical Applications Applications in Education and Information Science and AI Applications The volume also includes the text of short papers presented as posters at the conference This is the thirtieth volume in the Research and Development in Intelligent Systems series which also incorporates the twenty first volume in the Applications and Innovations in Intelligent Systems series These series are essential reading for those who wish to keep up to date with developments in this important field *Bioinformatics and Biomedical Engineering* Francisco Ortuño,Ignacio Rojas,2015-03-16 The two volume set LNCS 9043 and 9044 constitutes the refereed proceedings of the Third International Conference on Bioinformatics and Biomedical Engineering IWBBIO 2015 held in Granada Spain in April 2015 The 135 papers presented were carefully reviewed and selected from 268 submissions The scope of the conference spans the following areas bioinformatics for healthcare and diseases biomedical engineering biomedical image analysis biomedical signal analysis computational genomics computational proteomics computational systems for modelling biological processes e Health next generation sequencing and sequence analysis quantitative and systems pharmacology Hidden Markov Model HMM for biological sequence modeling advances in computational intelligence for bioinformatics and biomedicine tools for next generation sequencing data analysis dynamics networks in system medicine interdisciplinary puzzles of measurements in biological systems biological networks high performance computing in bioinformatics computational biology and computational chemistry advances in drug discovery and ambient intelligence for bio emotional computing

Architectural Design of Multi-Agent Systems: Technologies and Techniques Lin, Hong,2007-05-31 This book is a compilation of advanced research results in architecture and modeling issues of multi agent systems It serves as a reference for research on system models architectural design languages methods and reasoning module interface design and design issues Provided by publisher Design and Operation of Production Networks for Mass Personalization in the Era of Cloud Technology Dimitris Mourtzis,2021-11-10 Design and Operation of Production Networks for Mass Personalization in the Era of Cloud Technology draws on the latest industry advances to provide everything needed for the effective implementation of this powerful tool Shorter product lifecycles have increased pressure on manufacturers through the increasing variety and complexity of production challenging their workforce to remain competitive and profitable This has led to innovation in production network methodologies which together with opportunities provided by new digital technologies has fed a rapid evolution of production engineering that has opened new solutions to the challenges of mass personalization and market uncertainty In addition to the latest developments in cloud technology reference is made to key enabling technologies including artificial intelligence the digital twin big data analytics and the internet of things IoT to help users integrate the cloud approach with a fully digitalized production system Presents diverse cases that show how cloud based technologies can

be used in different ways as part of the standard operation of global production networks Provides detailed reviews of new technologies like the digital twin big data analytics and blockchain to provide context on the role of cloud technologies in a fully digitalized system Explores future trends for cloud technology and production engineering **Agents and Artificial Intelligence** Joaquim Filipe,Ana Fred,2014-10-30 This book constitutes the thoroughly refereed post conference proceedings of the 5th International Conference on Agents and Artificial Intelligence ICAART 2013 held in Barcelona Spain in February 2013 The 20 revised full papers presented together with one invited paper were carefully reviewed and selected from 269 submissions The papers are organized in two topical sections on artificial intelligence and on agents *Proceedings* Michel Verleysen,2015 **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 lnferMed Ltd S Modgil University College London A Montgomery lnferMed Ltd P Hammond University College London IC Wyatt National Institute for Clinical Excellence DG Altman Centre for Statistics in Medicine R Dunlop lnferMed 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 Linsay Turbert **Foundations of Intelligent Systems** Zbigniew W. Ras,Maciek Michalewicz,1996-05-15 This book constitutes the refereed proceedings of the 9th International Symposium on Methodologies for Intelligent Systems ISMIS 96 held in Zakopane Poland in June 1996 The 53 revised full papers presented were selected from a total of 124 submissions also included are 10 invited papers by leading experts surveying the state of the art in the area The volume covers the following areas approximate reasoning evolutionary computation intelligent information systems knowledge representation and integration learning and knowledge discovery and AI logics **Challenges of Trustable AI and Added-Value on Health** Patrick Weber,Ferdinand Dhombres,Cyril Grouin,Jan-David Liebe,Sylvia Pelayo,Andrea Pinna,2022-08-15 Artificial Intelligence AI in healthcare promises to improve the accuracy of diagnosis and screening support clinical care and assist in

various public health interventions such as disease surveillance outbreak response and health system management But the increasing importance of AI in healthcare means that trustworthy AI is vital to achieve the beneficial impacts on health anticipated by both health professionals and patients This book presents the proceedings of the 32nd Medical Informatics Europe Conference MIE2022 organized by the European Federation for Medical Informatics EFMI and held from 27 30 May 2022 in Nice France The theme of the conference was Challenges of Trustable AI and Added Value on Health Over 400 submissions were received from 43 countries and were reviewed in a thorough process by at least three reviewers before being assessed by an SPC co chair with papers requiring major revision undergoing further review Included here are 147 full papers acceptance rate 54% 23 short papers and 79 posters from the conference Topics covered include the usual sub domains of biomedical informatics decision support and clinical information systems clinical research informatics knowledge management and representation consumer health informatics natural language processing public health informatics and privacy ethical and societal aspects but also innovative approaches to the collection such as organization and analysis of data and knowledge related to health and wellbeing as well as theoretical and applied contributions to AI methods and algorithms Providing an overview of the latest developments in medical informatics the book will be of interest to all those involved in the development and provision of healthcare today   The Design of Intelligent Agents Jörg P. Müller,1996-11-27 This monograph presents a comprehensive state of the art survey on approaches to the design of intelligent agents On the theoretical side the author identifies a set of general requirements for autonomous interacting agents and provides an essential step towards understanding the principles of intelligent agents On the practical side the novel agent architecture InteRRaP is introduced the detailed description and evaluation of this architecture is an ideal guideline and case study for software engineers or researchers faced with the task of building an agent system The book uniquely bridges the gap between theory and practice it addresses active and novice researchers as well as practitioners interested in applicable agent technology   **Scientific and Technical Aerospace Reports** ,1992   *Practical Reasoning* Dov M. Gabbay,1996-05-21 This book constitutes the refereed proceedings of the International Conference on Formal and Applied Practical Reasoning FAPR 96 held in Bonn Germany in June 1996 The 51 revised full papers included in the book together with eight posters were carefully selected for presentation at the conference The book addresses current aspects of the highly interdisciplinary area of practical reasoning in artificial intelligence philosophy psychology linguistics software engineering intelligent systems and industrial applications Among the topics addressed are user modeling belief legal reasoning argumentation dialogue logic default reasoning analogy metareasoning temporal and procedural reasoning and many others   Advances in Knowledge Discovery and Data Mining Wee Keong Ng,2006-03-31 This book constitutes the refereed proceedings of the 10th Pacific Asia Conference on Knowledge Discovery and Data Mining PAKDD 2006 held in Singapore in April 2006 The 67 revised full papers and 33 revised short papers presented together with 3 invited talks were carefully reviewed and selected from 501

submissions The papers are organized in topical sections on Classification Ensemble Learning Clustering Support Vector Machines Text and Document Mining Web Mining Bio Data Mining and more **Research Handbook on the Law of Artificial Intelligence** Woodrow Barfield,Ugo Pagallo,2018-12-28 The field of artificial intelligence AI has made tremendous advances in the last two decades but as smart as AI is now it is getting smarter and becoming more autonomous This raises a host of challenges to current legal doctrine including whether AI algorithms should count as speech whether AI should be regulated under antitrust and criminal law statutes and whether AI should be considered as an agent under agency law or be held responsible for injuries under tort law This book contains chapters from US and international law scholars on the role of law in an age of increasingly smart AI addressing these and other issues that are critical to the evolution of the field

Automated Deduction - Cade-13 Michael A. McRobbie,J.K. Slaney,1996-07 This book constitutes the refereed proceedings of the 13th International Conference on Automated Deduction CADE 13 held in July August 1996 in New Brunswick NJ USA as part of FLoC 96 The volume presents 46 revised regular papers selected from a total of 114 submissions in this category also included are 15 selected system descriptions and abstracts of two invited talks The CADE conferences are the major forum for the presentation of new results in all aspects of automated deduction Therefore the volume is a timely report on the state of the art in the area

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