

Frontiers  
in  
Artificial  
Intelligence  
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Applications

# ADVANCES IN AMBIENT INTELLIGENCE

Edited by  
Juan Carlos Augusto  
Daniel Shapiro

**IOS**  
Press

# Advances In Ambient Intelligence Volume 164 Frontiers In Artificial Intelligence And Applications

**Victor M. Corman**



## **Advances In Ambient Intelligence Volume 164 Frontiers In Artificial Intelligence And Applications:**

Advances in Ambient Intelligence Juan Carlos Augusto, Daniel Shapiro, 2007 Ambient Intelligence lies at the confluence of several trends the continued decrease in cost and size of computing technology the increasing availability of networking and communication infrastructure the growing public familiarity comfort with computing artifacts and practical advances in artificial intelligence These developments make it possible to contemplate the ubiquitous deployment of intelligent systems prototypically in smart homes but more broadly in public spaces private automobiles and on individual appliances and hand held devices in applications ranging from entertainment through eldercare to safety critical device control Ambient Intelligence is a young field As a result it has been natural to wonder what the technology can do to improve the way we live At the same time it is becoming increasingly important to ask What do we want since the intent is to embed technology in new and pervasive ways The contributions in this volume provide a window into the visions and trends currently dominating the area of Ambient Intelligence This publication is divided into three sections The first describes visions for the future of Ambient Intelligence the second addresses core technology of the field and the third provides an analysis of elements of the area which will demand special consideration during the future development of the area , **Handbook of Research on Ambient Intelligence and Smart Environments** Nak-Young Chong, Fulvio Mastrogiovanni, 2010-08-01 This book covers the cutting edge aspects of AMI applications specifically those involving the effective design realization and implementation of a comprehensive ambient intelligence in smart environments **Information Modelling and Knowledge Bases XIX** Hannu Jaakkola, Yasushi Kiyoki, Takahiro Tokuda, 2008 In the last decades information modelling and knowledge bases have become hot topics not only in academic communities related to information systems and computer science but also in business areas where information technology is applied This book includes papers submitted to the 17th European Japanese Conference on Information Modelling and Knowledge Bases EJC 2007 The EJC conferences constitute a world wide research forum for the exchange of scientific results and experiences achieved in computer science and other related disciplines using innovative methods and progressive approaches I **Agents and Artificial Intelligence** Joaquim Filipe, Ana Fred, Bernadette Sharp, 2010-08-16 The present book includes a set of selected papers from the First International Conference on Agents and Artificial Intelligence ICAART 2009 held in Porto Portugal during January 19 21 2009 The conference was organized in two simultaneous tracks Artificial Intelligence and Agents The book is based on the same structure ICAART 2009 received 161 paper submissions from more than 37 different countries in all continents After a blind review process only 26 were accepted as full papers of which 21 were selected for inclusion in this book based on the classifications provided by the Program Committee The selected papers reflect the interdisciplinary nature of the conference The diversity of topics is an important feature of this conference enabling an overall perception of several important scientific and technological trends These high quality standards will be maintained and reinforced at ICAART 2010 to be held in Valencia Spain and in future

editions of this conference Furthermore ICAART 2009 included five plenary keynote lectures given by Juan Carlos Augusto University of Ulster Marco Dorigo IRIDIA Free University of Brussels Timo Honkela Helsinki University of Technology Edward H Shortliffe Arizona State University and Paulo Urbano University of Lisbon We would like to express our appreciation to all of them and in particular to those who took the time to contribute with a paper to this book

**Computational Models of Argument** Philippe Besnard, Sylvie Doutre, Anthony Hunter, 2008 Focuses on the aim to develop software tools to assist users in constructing and evaluating arguments and counterarguments and or to develop automated systems for constructing and evaluating arguments and counterarguments This book includes articles which provide a snapshot of research questions in the area of computational models of argument *Adaptive Web Sites* Juan D. Velásquez, Vasile Palade, 2008 This book can be presented in two different ways Firstly it introduces a particular methodology to build adaptive Web sites and secondly it presents the main concepts behind Web mining and then applying them to adaptive Web sites In this case Adaptive Web Sites is the case study to exemplify the tools introduced in the text The authors start by introducing the Web and motivating the need for adaptive Web sites The second chapter introduces the main concepts behind a Web site its operation its associated data and structure user sessions etc Chapter three explains the Web mining process and the tools to analyze Web data mainly focused in machine learning The fourth chapter looks at how to store and manage data Chapter five looks at the three main and different mining tasks content links and usage The following chapter covers Web personalization a crucial topic if we want to adapt our site to specific groups of people Chapter seven shows how to use information extraction techniques to find user behavior patterns The subsequent chapter explains how to acquire and maintain knowledge extracted from the previous phase Finally chapter nine contains the case study where all the previous concepts are applied to present a framework to build adaptive Web sites In other words the authors have taken care of writing a self contained book for people that want to learn and apply personalization and adaptation in Web sites This is commendable considering the large and increasing bibliography in these and related topics The writing is easy to follow and although the coverage is not exhaustive the main concepts and topics are all covered **Qualitative Spatio-Temporal**

**Representation and Reasoning: Trends and Future Directions** Hazarika, Shyamanta M., 2012-05-31 Space and time are inextricably linked Reasoning about space often involves reasoning about change in spatial configurations Qualitative spatial information theory encompasses spatial as well as temporal representation and reasoning Qualitative Spatio Temporal Representation and Reasoning Trends and Future Directions is a contribution to the emerging discipline of qualitative spatial information theory within artificial intelligence This collection of research covers both theory and application centric research and provides a comprehensive perspective on the emerging area of qualitative spatio temporal representation and reasoning This revolutionary new field is increasingly becoming a core issue within mobile computing GIS spatial information systems databases computer vision as well as knowledge discovery and data mining *Distributed Autonomous Robotic*

*Systems 8* Hajime Asama, Haruhisa Kurokawa, Jun Ota, Kosuke Sekiyama, 2009-05-15 The International Symposia on Distributed Autonomous Robotic Systems DARS started at Riken Japan in 1992 Since then the DARS symposia have been held every two years in 1994 and 1996 in Japan Riken Wako in 1998 in Germany Karlsruhe in 2000 in the USA Knoxville TN in 2002 in Japan Fukuoka in 2004 in France Toulouse and in 2006 in the USA Minneapolis MN The 9th DARS symposium which was held during November 17 19 in T kuba Japan hosted 84 participants from 13 countries The 48 papers presented there were selected through rigorous peer review with a 50% acceptance ratio Along with three invited talks they addressed the spreading research fields of DARS which are classifiable along two streams theoretical and standard studies of DARS and interdisciplinary studies using DARS concepts The former stream includes multi robot cooperation task assignment methodology among multiple robots multi robot localization etc swarm intelligence and modular robots The latter includes distributed sensing mobiligence ambient intelligence and mul agent systems interaction with human beings This book not only offers readers the latest research results related to DARS from theoretical studies to application oriented ones it also describes the present trends of this field With the diversity and depth revealed herein we expect that DARS technologies will flourish soon

**Artificial General Intelligence 2008** P. Wang, B. Goertzel, S. Franklin, 2008-02-18 The field of Artificial Intelligence AI was initially directly aimed at the construction of thinking machines that is computer systems with human like general intelligence But this task proved more difficult than expected As the years passed AI researchers gradually shifted focus to producing AI systems that intelligently approached specific tasks in relatively narrow domains In recent years however more and more AI researchers have recognized the necessity and the feasibility of returning to the original goal of the field Increasingly there is a call to focus less on highly specialized narrow AI problem solving systems and more on confronting the difficult issues involved in creating human level intelligence and ultimately general intelligence that goes beyond the human level in various ways Artificial General Intelligence AGI as this renewed focus has come to be called attempts to study and reproduce intelligence as a whole in a domain independent way Encouraged by the recent success of several smaller scale AGI related meetings and special tracks at conferences the initiative to organize the very first international conference on AGI was taken with the goal to give researchers in the field an opportunity to present relevant research results and to exchange ideas on topics of common interest In this collection you will find the conference papers full length papers short position statements and also the papers presented in the post conference workshop on the sociocultural ethical and futurological implications of AGI

**ECAI 2008** European Coordinating Committee for Artificial Intelligence, 2008 Includes subconference Prestigious Applications of Intelligent Systems PAIS 2008

**Behaviour Monitoring and Interpretation - BMI** B. Gottfried, H. Aghajan, 2009-09-22 Focuses on behaviour monitoring and interpretation with regard to two main areas of focus investigation of motion patterns and ambient assisted living This book presents contributions on research in both these areas It includes chapters discussing developments in monitoring and

representing behaviours with a focus on movement based behaviour

**Legal Knowledge and Information Systems** Arno R. Lodder, Laurens Mommers, 2007 This book includes papers from the twentieth JURIX conference first organized in 1988 Over the years JURIX has become more and more international JURIX is originally a Dutch Belgian initiative Nowadays the conference papers are in majority from non Dutch authors and since 2002 JURIX is held outside the Netherlands and Belgium every other year Most accepted papers can largely be fitted into either work on argumentation or work on ontology Argumentation has been a JURIX topic during all past years and the interest in ontology has revived recently with Semantic Web initiatives The topic

Spatial Information Theory Kathleen Stewart Hornsby, Christophe Claramunt, Michel Denis, Gérard Ligozat, 2009-09-19 First established in 1993 with a conference in Elba Italy COSIT the International Conference on Spatial Information Theory is widely acknowledged as one of the most important conferences for the field of spatial information theory This conference series brings together researchers from a wide range of disciplines for intensive scientific changes centered on spatial information theory COSIT submissions typically address research questions drawn from cognitive perceptual and environmental psychology geography spatial information science computer science artificial intelligence cognitive science engineering cognitive anthropology linguistics ontology architecture planning and environmental design Some of the topical areas include for example the cognitive structure of spatial knowledge events and processes in geographic space incomplete or imprecise spatial knowledge languages of spatial relations navigation by organisms and robots ontology of space communication of spatial information and the social and cultural organization of space to name a few This volume contains the papers presented at the 9th International Conference on Spatial Information Theory COSIT 2009 held in Aber Wrach France September 21-25 2009 For COSIT 2009 70 full paper submissions were received These papers were carefully reviewed by an international Program Committee based on relevance to the conference intellectual quality scientific significance novelty relation to previously published literature and clarity of presentation After reviewing was completed 30 papers were selected for presentation at the conference and appear in this volume This number of papers reflects the high quality of submissions to COSIT this year

*Applications of Data Mining in E-Business and Finance* C. Soares, Y. Peng, J. Meng, 2008-08-07 In spite of the close relationship between research and practice in Data Mining it is not easy to find information on some of the important issues involved in real world application of DM technology This book addresses some of these issues It is suitable for Data Mining researchers and practitioners

Robotics: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2013-10-31 This book explores some of the most recent developments in robotic motion artificial intelligence and human machine interaction providing insight into a wide variety of applications and functional areas Provided by publisher

**Tenth Scandinavian Conference on Artificial Intelligence** Anders Holst, Per Kreuger, Peter Funk, 2008 The Scandinavian Conference on Artificial Intelligence is one of the regional AI conferences in Europe This title includes contributions that exemplify the diversity of research in

artificial intelligence and confirm the achievement and magnitude of 25 years AI research in Scandinavia **Handbook of Ambient Intelligence and Smart Environments** Hideyuki Nakashima, Hamid Aghajan, Juan Carlos Augusto, 2009-10-01

Our homes anticipate when we want to wake up Our computers predict what music we want to buy Our cars adapt to the way we drive In today's world even washing machines rice cookers and toys have the capability of autonomous decision making As we grow accustomed to computing power embedded in our surroundings it becomes clear that these smart environments with a number of devices controlled by a coordinating system capable of ambient intelligence will play an ever larger role in our lives This handbook provides readers with comprehensive up to date coverage in what is a key technological field Systematically dealing with each aspect of ambient intelligence and smart environments the text covers everything from visual information capture and human computer interaction to multi agent systems network use of sensor data and building more rationality into artificial systems The book also details a wide range of applications examines case studies of recent major projects from around the world and analyzes both the likely impact of the technology on our lives and its ethical implications With a wide variety of separate disciplines all conducting research relevant to this field this handbook encourages collaboration between disparate researchers by setting out the fundamental concepts from each area that are relevant to ambient intelligence and smart environments providing a fertile soil in which ground breaking new work can develop **Formal Ontologies Meet Industry** Stefano Borgo, Leonardo Lesmo, 2008

The success of the methodologies associated with knowledge modeling and ontologies led to increased need of a comparison between different approaches and results This book focuses on ontology in relation to business enterprise enterprise knowledge practice and linguistics

### **Ontology Learning and Population: Bridging the Gap Between Text and Knowledge** P. Buitelaar, P.

Cimiano, 2008-01-31 The promise of the Semantic Web is that future web pages will be annotated not only with bright colors and fancy fonts as they are now but with annotation extracted from large domain ontologies that specify to a computer in a way that it can exploit what information is contained on the given web page The presence of this information will allow software agents to examine pages and to make decisions about content as humans are able to do now The classic method of building an ontology is to gather a committee of experts in the domain to be modeled by the ontology and to have this committee agree on which concepts cover the domain on which terms describe which concepts on what relations exist between each concept and what the possible attributes of each concept are All ontology learning systems begin with an ontology structure which may just be an empty logical structure and a collection of texts in the domain to be modeled An ontology learning system can be seen as an interplay between three things an existing ontology a collection of texts and lexical syntactic patterns The Semantic Web will only be a reality if we can create structured unambiguous ontologies that model domain knowledge that computers can handle The creation of vast arrays of such ontologies to be used to mark up web pages for the Semantic Web can only be accomplished by computer tools that can extract and build large parts of these

ontologies automatically This book provides the state of art of many automatic extraction and modeling techniques for ontology building The maturation of these techniques will lead to the creation of the Semantic Web



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