

LNAI 5290

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Advances in Artificial Intelligence – IBERAMIA 2008

11th Ibero-American Conference on AI
Lisbon, Portugal, October 2008
Proceedings

Advances In Artificial Intelligence Iberamia 2008

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**Juan Pablo Bello, Elaine Chew, Douglas
Turnbull**



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Advances in Artificial Intelligence - IBERAMIA 2008 Hector Geffner, Rui Prada, Isabel Machado Alexandre, Nuno David, 2008-09-29 IBERAMIA is the international conference series of the Ibero American Artificial Intelligence community that has been meeting every two years since the 1988 meeting in Barcelona. The conference is supported by the main Ibero American societies of AI and provides researchers from Portugal, Spain and Latin America the opportunity to meet with AI researchers from all over the world. Since 1998 IBERAMIA has been a widely recognized international conference with its papers written and presented in English and its proceedings published by Springer in the LNAI series. This volume contains the papers accepted for presentation at Iberamia 2008 held in Lisbon, Portugal in October 2008. For this conference 147 papers were submitted for the main track and 46 papers were accepted. Each submitted paper was reviewed by three members of the Program Committee coordinated by an Area Chair. In certain cases extra reviewers were recruited to write additional reviews. The list of Area Chairs, PC members and reviewers can be found on the pages that follow. The authors of the submitted papers represent 14 countries with topics covering the whole spectrum of themes in AI: robotics and multiagent systems, knowledge representation and constraints, machine learning and planning, natural language processing and AI applications. The program for Iberamia 2008 also included three invited speakers: Christian Lemaitre (LANIA Mexico), R. Michael Young (NCSU USA) and Miguel Dias (Microsoft LDMC Lisbon) as well as five workshops.

Advances in Artificial Intelligence - IBERAMIA 2008, 2008. This book constitutes the refereed proceedings of the 11th Ibero American Conference on Artificial Intelligence IBERAMIA 2008 held in Lisbon, Portugal in October 2008. The 46 papers presented were carefully reviewed and selected from 147 submissions. The papers are organized in topical sections on: Knowledge Representation, Planning and Scheduling, Constraint Satisfaction and Optimization, Probabilistic Reasoning, Machine Learning, Multiagent Systems, Natural Language Processing, Intelligent Information Systems and NLP, Robotics and Applications.

Advances in Artificial Intelligence - IBERAMIA 2010 Angel Kuri-Morales, Guillermo R. Simari, 2010-10-29. This book constitutes the refereed proceedings of the 12th Ibero American Conference on Artificial Intelligence IBERAMIA 2010 held in Bahía Blanca, Argentina in November 2010. The 61 papers presented were carefully reviewed and selected from 148 submissions. The papers are organized in topical sections on: artificial intelligence in education, cognitive modeling and human reasoning, constraint satisfaction, evolutionary computation, information integration and extraction, knowledge acquisition and ontologies, knowledge representation and reasoning, machine learning and data mining, multiagent systems, natural language processing, neural networks, planning and scheduling, probabilistic reasoning, search and semantic web.

Advances in Artificial Intelligence -- IBERAMIA 2012 Juan Pavón, Néstor D. Duque-Méndez, Rubén Fuentes Fernández, 2012-11-15. This book constitutes the refereed proceedings of the 13th Ibero American Conference on Artificial Intelligence IBERAMIA 2012 held in Cartagena de Indias, Colombia in November 2012. The 75 papers presented were carefully reviewed and selected from 170

submissions The papers are organized in topical sections on knowledge representation and reasoning information and knowledge processing knowledge discovery and data mining machine learning bio inspired computing fuzzy systems modelling and simulation ambient intelligence multi agent systems human computer interaction natural language processing computer vision and robotics planning and scheduling AI in education and knowledge engineering and applications

Advances in Artificial Intelligence - IBERAMIA 2018 Guillermo R. Simari, Eduardo Fermé, Flabio Gutiérrez Segura, José Antonio Rodríguez Melquiades, 2018-11-08 This book constitutes the refereed proceedings of the 16th Ibero American Conference on Artificial Intelligence IBERAMIA 2018 held in Trujillo Peru in November 2018 The 41 papers presented were carefully reviewed and selected from 92 submissions The papers are organized in the following topical sections Knowledge Engineering Knowledge Representation and Reasoning under Uncertainty Multiagent Systems Game Theory and Economic Paradigms Game Playing and Interactive Entertainment Ambient Intelligence Machine Learning Methods Cognitive Modeling General AI Knowledge Engineering Computational Sustainability and AI Heuristic Search and Optimization and much more

Advances in Artificial Intelligence -- IBERAMIA 2014 Ana L.C. Bazzan, Karim Pichara, 2014-11-11 This book constitutes the refereed proceedings of the 14th Ibero American Conference on Artificial Intelligence IBERAMIA 2014 held in Santiago de Chile Chile in November 2014 The 64 papers presented were carefully reviewed and selected from 136 submissions The papers are organized in the following topical sections knowledge engineering knowledge representation and probabilistic reasoning planning and scheduling natural language processing machine learning fuzzy systems knowledge discovery and data mining bio inspired computing robotics vision multi agent systems agent based modeling and simulation AI in education affective computing and human computer interaction applications of AI and ambient intelligence

Advances in Artificial Intelligence - IBERAMIA 2016 Manuel Montes y Gómez, Hugo Jair Escalante, Alberto Segura, Juan de Dios Murillo, 2016-10-13 This book constitutes the refereed proceedings of the 15 Ibero American Conference on Artificial Intelligence IBERAMIA 2016 held in San Jos Costa Rica in November 2016 The 34 papers presented were carefully reviewed and selected from 75 submissions The papers are organized in the following topical sections knowledge engineering knowledge representation and probabilistic reasoning agent technology and multi agent systems planning and scheduling natural language processing machine learning big data knowledge discovery and data mining computer vision and pattern recognition computational intelligence soft computing AI in education affective computing and human computer interaction

Advances in Swarm Intelligence KAY CHEN TAN, 2010-06-08 This book and its companion volume LNCS vols 6145 and 6146 constitute the proceedings of the International Conference on Swarm Intelligence ICSI 2010 held in Beijing the capital of China during June 12 15 2010 ICSI 2010 was the rst gathering in the world for researchers working on all aspects of swarm intelligence and provided an academic forum for the participants to disseminate their new research findings and discuss emerging areas of research It also created a stimulating environment for the

participants to interact and exchange information on future challenges and opportunities of swarm intelligence research ICSI 2010 received 394 submissions from about 1241 authors in 22 countries and regions Australia Belgium Brazil Canada China Cyprus Hong Kong Hungary India Islamic Republic of Iran Japan Jordan Republic of Korea Malaysia Mexico Norway Pakistan South Africa Chinese Taiwan UK USA Vietnam across six continents Asia Europe North America South America Africa and Oceania Each submission was reviewed by at least three reviewers Based on rigorous reviews by the Program Committee members and reviewers 185 high quality papers were selected for publication in the proceedings with the acceptance rate of 46.9% The papers are organized in 25 cohesive sections covering all major topics of swarm intelligence research and development Progress in Artificial Intelligence Luís Seabra Lopes, Nuno Lau, Pedro Mariano, Luís M. Rocha, 2009-10-07

This book contains a selection of higher quality and reviewed papers of the 14th Portuguese Conference on Artificial Intelligence EPIA 2009 held in Aveiro Portugal in October 2009 The 55 revised full papers presented were carefully reviewed and selected from a total of 163 submissions The papers are organized in topical sections on artificial intelligence in transportation and urban mobility AITUM artificial life and evolutionary algorithms ALEA computational methods in bioinformatics and systems biology CMBSB computational logic with applications COLA emotional and affective computing EAC general artificial intelligence GAI intelligent robotics IROBOT knowledge discovery and business intelligence KDBI multi agent systems MASTA social simulation and modelling SSM text mining and application TEMA as well as web and network intelligence WNI Advances in Artificial Intelligence Grigori Sidorov, Arturo Hernández Aguirre, Carlos Alberto Reyes

Garcia, 2010-10-31 Artificial intelligence AI is a branch of computer science that models the human ability of reasoning usage of human language and organization of knowledge solving problems and practically all other human intellectual abilities Usually it is characterized by the application of heuristic methods because in the majority of cases there is no exact solution to this kind of problem The Mexican International Conference on Artificial Intelligence MICA I a yearly international conference series organized by the Mexican Society for Artificial Intelligence SMIA is a major international AI forum and the main event in the academic life of the country's growing AI community In 2010 SMIA celebrated 10 years of activity related to the organization of MICA I as is represented in its slogan Ten years on the road with AI MICA I conferences traditionally publish high quality papers in all areas of artificial intelligence and its applications The proceedings of the previous MICA I events were also published by Springer in its Lecture Notes in Artificial Intelligence LNAI series vols 1793 2313 2972 3789 4293 4827 5317 and 5845 Since its foundation in 2000 the conference has been growing in popularity and improving in quality

Advances in Artificial Intelligence Ildar Batyrshin, Grigori Sidorov, 2011-11-14 The two volume set LNAI 7094 and LNAI 7095 constitutes the refereed proceedings of the 10th Mexican International Conference on Artificial Intelligence MICA I 2011 held in Puebla Mexico in November December 2011 The 96 revised papers presented were carefully reviewed and selected from numerous submissions The first volume includes 50 papers representing the current main topics of interest for

the AI community and their applications The papers are organized in the following topical sections automated reasoning and multi agent systems problem solving and machine learning natural language processing robotics planning and scheduling and medical applications of artificial intelligence

AI*IA 2013: Advances in Artificial Intelligence Matteo

Baldoni,Cristina Baroglio,Guido Boella,Roberto Micalizio,2013-12-09 This book constitutes the refereed proceedings of the 13th International Conference of the Italian Association for Artificial Intelligence AI IA 2013 held in Turin Italy in December 2013 The 45 revised full papers were carefully reviewed and selected from 86 submissions The conference covers broadly the many aspects of theoretical and applied Artificial Intelligence as follows knowledge representation and reasoning machine learning natural language processing planning distributed AI robotics and MAS recommender systems and semantic Web and AI applications

Advances in Artificial Intelligence José M. Puerta,José A. Gámez,Bernabe Dorronsoro,Eduarne

Barrenechea,Alicia Troncoso,Bruno Baruque,Mikel Galar,2015-11-13 This book constitutes the refereed proceedings of the 16th Conference of the Spanish Association for Artificial Intelligence CAEPIA 2015 held in Albacete Spain in November 2015 The 31 revised full papers presented were carefully selected from 175 submissions The papers are organized in topical sections on Bayesian networks and uncertainty modeling fuzzy logic and soft computing knowledge representation reasoning and logic intelligent systems and environment intelligent Web and recommender systems machine learning and data mining metaheuristics and evolutionary computation and social robotics

Recent Trends in Computational Intelligence Ali

Sadollah,Tilendra Sinha,2020-05-06 Traditional models struggle to cope with complexity noise and the existence of a changing environment while Computational Intelligence CI offers solutions to complicated problems as well as reverse problems The main feature of CI is adaptability spanning the fields of machine learning and computational neuroscience CI also comprises biologically inspired technologies such as the intellect of swarm as part of evolutionary computation and encompassing wider areas such as image processing data collection and natural language processing This book aims to discuss the usage of CI for optimal solving of various applications proving its wide reach and relevance Bounding of optimization methods and data mining strategies make a strong and reliable prediction tool for handling real life applications

Robot Learning from Human Teachers Sonia Chernova,Andrea L. Thomaz,2022-06-01 Learning from Demonstration LfD explores techniques for learning a task policy from examples provided by a human teacher The field of LfD has grown into an extensive body of literature over the past 30 years with a wide variety of approaches for encoding human demonstrations and modeling skills and tasks Additionally we have recently seen a focus on gathering data from non expert human teachers i e domain experts but not robotics experts In this book we provide an introduction to the field with a focus on the unique technical challenges associated with designing robots that learn from naive human teachers We begin in the introduction with a unification of the various terminology seen in the literature as well as an outline of the design choices one has in designing an LfD system Chapter 2 gives a brief survey of the psychology literature that provides insights from human social

learning that are relevant to designing robotic social learners Chapter 3 walks through an LfD interaction surveying the design choices one makes and state of the art approaches in prior work First is the choice of input how the human teacher interacts with the robot to provide demonstrations Next is the choice of modeling technique Currently there is a dichotomy in the field between approaches that model low level motor skills and those that model high level tasks composed of primitive actions We devote a chapter to each of these Chapter 7 is devoted to interactive and active learning approaches that allow the robot to refine an existing task model And finally Chapter 8 provides best practices for evaluation of LfD systems with a focus on how to approach experiments with human subjects in this domain

Evolutionary Optimization Algorithms Dan Simon, 2013-06-13 A clear and lucid bottom up approach to the basic principles of evolutionary algorithms Evolutionary algorithms EAs are a type of artificial intelligence EAs are motivated by optimization processes that we observe in nature such as natural selection species migration bird swarms human culture and ant colonies This book discusses the theory history mathematics and programming of evolutionary optimization algorithms Featured algorithms include genetic algorithms genetic programming ant colony optimization particle swarm optimization differential evolution biogeography based optimization and many others Evolutionary Optimization Algorithms Provides a straightforward bottom up approach that assists the reader in obtaining a clear but theoretically rigorous understanding of evolutionary algorithms with an emphasis on implementation Gives a careful treatment of recently developed EAs including opposition based learning artificial fish swarms bacterial foraging and many others and discusses their similarities and differences from more well established EAs Includes chapter end problems plus a solutions manual available online for instructors Offers simple examples that provide the reader with an intuitive understanding of the theory Features source code for the examples available on the author's website Provides advanced mathematical techniques for analyzing EAs including Markov modeling and dynamic system modeling Evolutionary Optimization Algorithms Biologically Inspired and Population Based Approaches to Computer Intelligence is an ideal text for advanced undergraduate students graduate students and professionals involved in engineering and computer science

Python Essentials for Biomedical Data Analysis: An Introductory Textbook Julhash U. Kazi, 2025-11-15 This introductory book is a beginner friendly resource that empowers you to harness Python programming for exploring and understanding biomedical data In today's data driven world the ability to analyze and interpret complex datasets is a vital skill especially in biomedicine where data driven insights can lead to groundbreaking advancements in health and medicine Starting from scratch this book introduces Python's fundamental syntax and guides you through its powerful applications in real world biomedical research Starting with the basics this book offers a gentle introduction to Python's syntax and core concepts making it accessible even if it is your first encounter with coding You will discover that Python is more than just a tool it becomes an essential partner in uncovering the stories within your data Our primary aim is to equip you with a foundational understanding of Python enabling you to run pre written programs effectively

and create simple pipelines for executing sequences of applications You will engage with practical examples and exercises inspired by real world biomedical scenarios giving you realistic insights into the challenges and successes you may encounter in your data analysis tasks Whether you are taking your first steps into data analysis or looking to expand your current skills this introductory guide is ideal for graduate students emerging researchers and professionals in the biomedical field who are new to programming or Python Python Essentials for Biomedical Data Analysis serves as a valuable and inspiring resource throughout your journey unlocking the expansive potential of Python in biomedical research **Coupled Multiscale**

Simulation and Optimization in Nanoelectronics Michael Günther, 2015-06-15 Designing complex integrated circuits relies heavily on mathematical methods and calls for suitable simulation and optimization tools The current design approach involves simulations and optimizations in different physical domains device circuit thermal electromagnetic and in a range of electrical engineering disciplines logic timing power crosstalk signal integrity system functionality COMSON was a Marie Curie Research Training Network created to meet these new scientific and training challenges by a developing new descriptive models that take these mutual dependencies into account b combining these models with existing circuit descriptions in new simulation strategies and c developing new optimization techniques that will accommodate new designs The book presents the main project results in the fields of PDAE modeling and simulation model order reduction techniques and optimization based on merging the know how of three major European semiconductor companies with the combined expertise of university groups specialized in developing suitable mathematical models numerical schemes and e learning facilities In addition a common Demonstrator Platform for testing mathematical methods and approaches was created to assess whether they are capable of addressing the industry s problems and to educate young researchers by providing hands on experience with state of the art problems **ISMIR 2008** Juan Pablo Bello, Elaine Chew, Douglas Turnbull, 2008

Neural Information Processing. Theory and Algorithms Kevin K.W. Wong, B. Sumudu U. Mendis, Abdesselam Bouzerdoum, 2010-11-18 The two volume set LNCS 6443 and LNCS 6444 constitutes the proceedings of the 17th International Conference on Neural Information Processing ICONIP 2010 held in Sydney Australia in November 2010 The 146 regular session papers presented were carefully reviewed and selected from 470 submissions The papers of part I are organized in topical sections on neurodynamics computational neuroscience and cognitive science data and text processing adaptive algorithms bio inspired algorithms and hierarchical methods The second volume is structured in topical sections on brain computer interface kernel methods computational advance in bioinformatics self organizing maps and their applications machine learning applications to image analysis and applications

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