

# **Artificial Intelligence Paper**

**This book constitutes the refereed proceedings of the 17th Conference on Artificial Intelligence in Medicine, AIME 2019, held in Poznan, Poland, in June 2019. The 22 revised full and 31 short papers presented were carefully reviewed and selected from 134 submissions. The papers are organized in the following topical sections: deep learning; simulation; knowledge representation; probabilistic models; behavior monitoring;**

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**clustering, natural language processing, and decision support; feature selection; image processing; general machine learning; and unsupervised learning. The artificial intelligence (AI) landscape has evolved significantly from 1950 when Alan Turing first posed the question of whether machines can think. Today, AI is transforming societies and economies. It promises to generate productivity gains, improve well-being and help address global challenges, such as climate**

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**change, resource scarcity and health crises.**

**As an important enabler for changing people's lives, advances in artificial intelligence (AI)-based applications and services are on the rise, despite being hindered by efficiency and latency issues. By focusing on deep learning as the most representative technique of AI, this book provides a comprehensive overview of how AI services are being applied to the network edge near the data sources, and demonstrates how AI and edge computing can be mutually beneficial.**

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**To do so, it introduces and discusses: 1) edge intelligence and intelligent edge; and 2) their implementation methods and enabling technologies, namely AI training and inference in the customized edge computing framework. Gathering essential information previously scattered across the communication, networking, and AI areas, the book can help readers to understand the connections between key enabling technologies, e.g. a) AI applications in edge; b) AI inference in edge; c)**

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**AI training for edge; d) edge computing for AI; and e) using AI to optimize edge. After identifying these five aspects, which are essential for the fusion of edge computing and AI, it discusses current challenges and outlines future trends in achieving more pervasive and fine-grained intelligence with the aid of edge computing.**

**AI 2008, the 21st Australasian Joint Conference on Artificial Intelligence, was, for the first time, held in New Zealand, in Auckland during December 1-5, 2008. The**

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**conference was hosted by Auckland University of Technology. AI 2008 attracted 143 submissions from 22 countries, of which 42 (29%) were accepted as full papers and 21 (15%) as short papers. Submissions were subject to a rigorous review process. Each paper was reviewed by at least three (often four, and in one case, six) members of the Programme Committee. Authors could then provide a “rebuttal” to these reviews. The Senior Programme Committee members coordinated discussion on**

**the papers to provide a recommendation of acceptance or rejection to the Programme Committee Co-chairs. Both full papers and short papers were presented at the conference. We would first like to thank all those who submitted papers to AI 2008. Special thanks to the Programme Committee members for their detailed reviews completed in a timely manner, and to the Senior Programme Committee for their considered judgements and recommendations on the papers. We are sure authors would like to know that the**

**rebuttal and subsequent discussion phases made a difference to the outcome in numerous cases. We are confident that this process has improved the decision making for final paper selection, and that the overall quality and reputation of the conference is enhanced as a result. Thanks also to EasyChair for the use of their conference management system to facilitate this complex process and the preparation of these proceedings.**

**Anticipatory Systems:  
Humans Meet Artificial**



**Intelligence  
Human-Centered Artificial  
Intelligence  
22nd Australasian Joint  
Conference, Melbourne,  
Australia, December 1-4,  
2009, Proceedings  
A Fallacy Or a Great  
Opportunity?  
Proceedings of the 15th  
International Conference of  
the Catalan Association for  
Artificial Intelligence  
18th International  
Conference on Industrial  
and Engineering  
Applications of Artificial  
Intelligence and Expert  
Systems, IEA/AIE 2005,  
Bari, Italy, June 22-24,**

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## **2005, Proceedings AI 2008: Advances in Artificial Intelligence**

This open access book proposes a novel approach to Artificial Intelligence (AI) ethics. AI offers many advantages: better and faster medical diagnoses, improved business processes and efficiency, and the automation of boring work. But undesirable and ethically problematic consequences are possible too: biases and discrimination, breaches of privacy and security, and societal distortions such as unemployment, economic exploitation and weakened democratic processes. There is even a prospect, ultimately, of

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super-intelligent machines replacing humans. The key question, then, is: how can we benefit from AI while addressing its ethical problems? This book presents an innovative answer to the question by presenting a different perspective on AI and its ethical consequences. Instead of looking at individual AI techniques, applications or ethical issues, we can understand AI as a system of ecosystems, consisting of numerous interdependent technologies, applications and stakeholders. Developing this idea, the book explores how AI ecosystems can be shaped to foster human flourishing. Drawing on rich empirical insights and

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detailed conceptual analysis, it suggests practical measures to ensure that AI is used to make the world a better place.

One hundred years after the birth of Alan Turing, the great pioneer of computer science, artificial intelligence has become so much a part of everyday life that it is hard to imagine the world without it. This book contains papers from the 15th International Conference of the Catalan Association of Artificial Intelligence (CCIA 2012), held at the Universitat d'Alicant, Spain, in October 2012. Since 1994 the Catalan Association of Artificial Intelligence (ACIA) has fostered cooperation between researchers in artificial intelligence

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within the Catalan speaking community. The annual CCIA is its international conference, a platform where not only researchers from Catalan speaking countries, but also those working in artificial intelligence worldwide, have found a place to show, discuss and publish the results of their researches and developments. The 23 papers presented here, which include contributions from the AI community all over the world, cover topics such as KDD, DM and machine learning; natural language processing and recommenders; computer vision; robotics; AI for optimization problems and AI applications in

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the real world. The book also includes the contributions of the two invited keynote speakers at the conference - Oscar Cordón and Eduardo Nebot - which respectively address the subjects of real-world applications of soft artificial intelligence, and challenges of automation and safety in field robotics.

"AI and the Technological Singularity: A Fallacy or a Great Opportunity" is a collection of essays that addresses the question of whether the technological singularity-the notion that AI-based computers can program the next generation of AI-based computers until a singularity is achieved, where an

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AI-based computer can exceed human intelligence-is a fallacy or a great opportunity. The group of scholars that address this question have a variety of positions on the singularity, ranging from advocates to skeptics. No conclusion can be reached, as the development of artificial intelligence is still in its infancy, and there is much wishful thinking and imagination in this issue rather than trustworthy data. The reader will find a cogent summary of the issues faced by researchers who are working to develop the field of artificial intelligence and, in particular, artificial general intelligence. The only conclusion that can be reached is that there

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exists a variety of well-argued positions as to where AI research is headed.

This book constitutes the refereed proceedings of the 14th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2009, held in La Laguna, Canary Islands, Spain, in November 2011. The 50 revised full papers presented were carefully selected from 149 submissions. The papers are organized in topical sections on agent-based and multi-agent systems; machine learning; knowledge representation, logic, search and planning; multidisciplinary topics and applications; vision and robotics;



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soft computing; Web intelligence and information retrieval.

Transfer Learning

JSAI-isAI 2010 Workshops, LENLS, JURISIN, AMBN, ISS, Tokyo, Japan,

November 18-19, 2010, Revised Selected Papers

Topics in General Topology

Artificial Intelligence XXXVIII

Working Paper

An Ecosystem Perspective on the Ethics of AI and Emerging Digital Technologies

Progress in Artificial Intelligence

Artificial Intelligence in

the Age of Neural Networks

and Brain Computing

demonstrates that existing

disruptive implications

and applications of AI is

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a development of the unique attributes of neural networks, mainly machine learning, distributed architectures, massive parallel processing, black-box inference, intrinsic nonlinearity and smart autonomous search engines. The book covers the major basic ideas of brain-like computing behind AI, provides a framework to deep learning, and launches novel and intriguing paradigms as future alternatives. The success of AI-based commercial products

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proposed by top industry leaders, such as Google, IBM, Microsoft, Intel and Amazon can be interpreted using this book. Developed from the 30th anniversary of the International Neural Network Society (INNS) and the 2017 International Joint Conference on Neural Networks (IJCNN) Authored by top experts, global field pioneers and researchers working on cutting-edge applications in signal processing, speech recognition, games, adaptive control and decision-making Edited by

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high-level academics and researchers in intelligent systems and neural networks

This book constitutes the thoroughly refereed post-conference proceedings of the 6th International Conference on Agents and Artificial Intelligence, ICAART 2014, held in Angers, France, in March 2014. The 21 revised full papers presented together with one invited paper were carefully reviewed and selected from 225 submissions. The papers are organized in two topical sections on agents

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and on artificial intelligence.

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 co-

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tries 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-

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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

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to all of them and in particular to those who took the time to contribute with a paper to this book.

This book constitutes the proceedings of the 11th International Conference on Modeling Decisions for Artificial Intelligence, MDAI 2014, held in Tokyo, Japan, in October 2014.

The 19 revised full papers presented together with an invited paper were carefully reviewed and selected from 38 submissions. They deal with the theory and tools for modeling decisions, as



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well as applications that encompass decision making processes and information fusion techniques and are organized in topical sections on aggregation operators and decision making, optimization, clustering and similarity, and data mining and data privacy.

41st SGA International Conference on Artificial Intelligence, AI 2021, Cambridge, UK, December 14-16, 2021, Proceedings Robotics and Artificial Intelligence Human-Centered AI Proceedings of the 12th

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International Conference  
of the Catalan Association  
for Artificial  
Intelligence  
Artificial Intelligence in  
the Age of Neural Networks  
and Brain Computing  
State of the Art Report  
15:3

14th Conference of the  
Spanish Association for  
Artificial Intelligence,  
CAEPIA 2011, La Laguna,  
Spain, November 7-11,  
2011. Proceedings

This volume contains the papers presented at AI 2008, the 21st conference of the Canadian Society for the Computational Study of Intelligence (CSCSI). AI 2008 attracted 75 paper submissions. Each paper was

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assigned to four reviewers. One goal for AI2008 was to reflect a wider range of different research, thus in addition to regular papers, these proceedings also include short papers of research that is still in its early stages. The Program Committee selected 30 regular papers and 5 short papers for publication. AI 2008 was a collaboration of many people. Most importantly, my thanks go to the members of the Program Committee and the additional reviewers, who provided high-quality reviews, making the task of selecting from a wide variety of papers possible. I also benefited greatly from the patient advice from the previous Program Chairs and current Local Arrangements Chairs Dan Wu and Ziad Kobti, as well as the General Conference Chair, Howard Hamilton.

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The EasyChair conference management system by Andrei Voronkov once again lived up to its name. Final thanks go to the CSCSI Executive Committee, and especially Danny Silver, for their support and for making AI 2008 a successful conference. May 2008 Sabine Bergler Organization AI 2008 was organized by the Canadian Society for the Computational Study of Intelligence (CSCSI).

Artificial Intelligence presents a practical guide to AI, including agents, machine learning and problem-solving simple and complex domains.

Artificial Intelligence in Precision Health: From Concept to Applications provides a readily available resource to understand artificial intelligence and its real time applications in precision medicine in practice. Written by

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experts from different countries and with diverse background, the content encompasses accessible knowledge easily understandable for non-specialists in computer sciences. The book discusses topics such as cognitive computing and emotional intelligence, big data analysis, clinical decision support systems, deep learning, personal omics, digital health, predictive models, prediction of epidemics, drug discovery, precision nutrition and fitness. Additionally, there is a section dedicated to discuss and analyze AI products related to precision healthcare already available. This book is a valuable source for clinicians, healthcare workers, and researchers from diverse areas of biomedical field who may or may not have computational background and want to learn more about the

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innovative field of artificial intelligence for precision health. Provides computational approaches used in artificial intelligence easily understandable for non-computer specialists Gives know-how and real successful cases of artificial intelligence approaches in predictive models, modeling disease physiology, and public health surveillance Discusses the applicability of AI on multiple areas, such as drug discovery, clinical trials, radiology, surgery, patient care and clinical decision support

The remarkable progress in algorithms for machine and deep learning have opened the doors to new opportunities, and some dark possibilities. However, a bright future awaits those who build on their working methods by including HCAI

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strategies of design and testing. As many technology companies and thought leaders have argued, the goal is not to replace people, but to empower them by making design choices that give humans control over technology. In *Human-Centered AI*, Professor Ben Shneiderman offers an optimistic realist's guide to how artificial intelligence can be used to augment and enhance humans' lives. This project bridges the gap between ethical considerations and practical realities to offer a road map for successful, reliable systems. Digital cameras, communications services, and navigation apps are just the beginning. Shneiderman shows how future applications will support health and wellness, improve education, accelerate business, and connect people in reliable, safe, and

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trustworthy ways that respect human values, rights, justice, and dignity.

Artificial Intelligence in Medicine

The Ethical and Social Implications of Robotics

State Policy Issues for Artificial Intelligence Research and Development

Artificial Intelligence; a Paper Symposium

11th International Conference, MDAI 2014, Tokyo, Japan, October 29-31, 2014, Proceedings

Constructivism in Mathematics

Artificial Intelligence Research and Development

***Being an advanced account of certain aspects of general topology, the primary purpose of this volume is to provide the reader with an overview of recent***



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***developments. The papers cover basic fields such as metrization and extension of maps, as well as newly-developed fields like categorical topology and topological dynamics. Each chapter may be read independently of the others, with a few exceptions. It is assumed that the reader has some knowledge of set theory, algebra, analysis and basic general topology.***

***Prominent experts from science and the humanities explore issues in robot ethics that range from sex to war. Robots today serve in many roles, from entertainer to educator to executioner. As robotics***

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***technology advances, ethical concerns become more pressing: Should robots be programmed to follow a code of ethics, if this is even possible? Are there risks in forming emotional bonds with robots? How might society—and ethics—change with robotics? This volume is the first book to bring together prominent scholars and experts from both science and the humanities to explore these and other questions in this emerging field. Starting with an overview of the issues and relevant ethical theories, the topics flow naturally from the possibility of programming robot ethics to the***

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***ethical use of military robots in war to legal and policy questions, including liability and privacy concerns. The contributors then turn to human-robot emotional relationships, examining the ethical implications of robots as sexual partners, caregivers, and servants. Finally, they explore the possibility that robots, whether biological-computational hybrids or pure machines, should be given rights or moral consideration. Ethics is often slow to catch up with technological developments. This authoritative and accessible volume fills a gap in both scholarly literature and policy***

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***discussion, offering an impressive collection of expert analyses of the most crucial topics in this increasingly important field.***

***We are pleased to present this LNCS volume, the Proceedings of the 22nd Australasian Joint Conference on Artificial Intelligence (AI2009), held in Melbourne, Australia, December 1–4, 2009. This long established annual regional conference is a forum both for the presentation of research advances in artificial intelligence and for scientific interchange amongst researchers and practitioners in the field of artificial intelligence. Conference attendees were also***

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***able to enjoy AI 2009 being co-located with the Australasian Data Mining Conference (AusDM 2009) and the 4th Australian Conference on Artificial Life (ACAL 2009). This year AI 2009 received 174 submissions, from authors of 30 different countries. After an extensive peer review process where each submitted paper was rigorously reviewed by at least 2 (and in most cases 3) independent reviewers, the best 68 papers were selected by the senior Program Committee for oral presentation at the conference and included in this volume, resulting in an acceptance rate of 39%. The papers included in this volume cover a***

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***wide range of topics in artificial intelligence: from machine learning to natural language systems, from knowledge representation to soft computing, from theoretical issues to real-world applications. AI 2009 also included 11 tutorials, available through the First Australian Computational Intelligence Summer School (ACISS 2009). These tutorials – some introductory, some advanced – covered a wide range of research topics within artificial intelligence, including data mining, games, evolutionary computation, swarm optimization, intelligent agents, Bayesian and belief networks.***

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***Artificial Intelligence: State of the Art Report is a two-part report consisting of the invited papers and the analysis. The editor first gives an introduction to the invited papers before presenting each paper and the analysis, and then concludes with the list of references related to the study. The invited papers explore the various aspects of artificial intelligence. The analysis part assesses the major advances in artificial intelligence and provides a balanced analysis of the state of the art in this field. The Bibliography compiles the most important published material on the subject of artificial intelligence and***

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***includes all the materials cited in the invited paper and analysis references.***

***Edge AI***

***Advances in Artificial Intelligence - IBERAMIA 2008 Agents and Artificial Intelligence International Conference, ICAART 2009, Porto, Portugal, January 19-21, 2009. Revised Selected Papers***

***Advances in Artificial Intelligence***

***Robot Ethics***

***An Introduction***

This book contains a selection of higher quality and reviewed papers of the 15th Portuguese Conference on Artificial Intelligence, EPIA 2011, held in Lisbon, Portugal, in October



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2011. The 50 revised full papers presented were carefully reviewed and selected from a total of 203 submissions. The papers are organized in topical sections on affective computing, ambient intelligence environments, artificial intelligence methodologies for games, artificial intelligence in transportation systems, artificial life evolutionary algorithms, computational logic with applications, general artificial intelligence, intelligent robotics, knowledge discovery and business intelligence, multi-agent systems: theory and applications, social simulation and modeling, text mining and applications, and doctoral symposium on artificial

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intelligence.

KI 2008 was the 31st Annual German Conference on Artificial Intelligence held September 23–26 at the University of Kaiserslautern and the German Research Center for Artificial Intelligence DFKI GmbH in Kaiserslautern, Germany. The conference series started in 1975 with the German Workshop on AI (GWAI), which took place in Bonn, and represents the first forum of its type for the German AI Community. Over the years AI has become a major field in computer science in Germany involving a number of successful projects that received much international attention. Today KI conferences are international forums where

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participants from academia and industry from all over the world meet to exchange their recent research results and to discuss trends in the field. Since 1993 the meeting has been called the "Annual German Conference on Artificial Intelligence," designated by the German acronym KI. This volume contains the papers selected out of 77 submissions, including a number of submissions from outside German-speaking countries. In total, 15 submissions (19%) were accepted for oral and 30 (39%) for poster presentation. Oral presentations at the conference were a single track. Because of this, the choice of presentation form (oral, poster) was

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based on how well reviews indicated that the paper would fit into one or the other format. The proceedings allocate the same space to both types of papers. In addition, we selected six papers that show high application potential - describing systems or prototypical implementations of innovative AI technologies. They are also included in this volume as two-page extended abstracts.

Human-Centered Artificial Intelligence: Research and Applications presents current theories, fundamentals, techniques and diverse applications of human-centered AI. Sections address the question, "are AI models explainable, interpretable and

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understandable?, introduce readers to the design and development process, including mind perception and human interfaces, explore various applications of human-centered AI, including human-robot interaction, healthcare and decision-making, and more. As human-centered AI aims to push the boundaries of previously limited AI solutions to bridge the gap between machine and human, this book is an ideal update on the latest advances. Presents extensive research on human-centered AI technology Provides different methods and techniques used to investigate human-AI interaction Discusses open questions and challenges in trust within human-

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centered AI Explores how human-centered AI changes and operates in human-machine interactions

“Intelligent systems are those which produce intelligent outputs.” AI researchers have been focusing on developing and employing strong methods that are capable of solving complex real-life problems. The 18th International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2005) held in Bari, Italy presented such work performed by many scientists worldwide. The Program Committee selected long papers from contributions presenting more complete work and posters from those reporting ongoing research.

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The Committee enforced the rule that only original and unpublished work could be considered for inclusion in these proceedings. The Program Committee selected 116 contributions from the 271 submitted papers which cover the following topics: artificial systems, search engines, intelligent interfaces, knowledge discovery, knowledge-based technologies, natural language processing, machine learning applications, reasoning technologies, uncertainty management, applied data mining, and technologies for knowledge management. The contributions oriented to the technological aspects of AI and the quality of the papers are witness to a research

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activity clearly aimed at consolidating the theoretical results that have already been achieved. The conference program also included two invited lectures, by Katharina Morik and Roberto Pieraccini. Many people contributed in different ways to the success of the conference and to this volume. The authors who continue to show their enthusiastic interest in applied intelligence research are a very important part of our success. We highly appreciate the contribution of the members of the Program Committee, as well as others who reviewed all the submitted papers with efficiency and dedication.

31st Annual German Conference on AI, KI 2008, Kaiserslautern,



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Germany, September 23-26, 2008,  
Proceedings

Current Topics in Artificial  
Intelligence

Research and Applications

An Agenda

Logic-Based Artificial Intelligence

A New Synthesis

KI 2008: Advances in Artificial  
Intelligence

**This book is a collection of 45 accepted papers originally submitted for the 12th International Conference of the Catalan Association for Artificial Intelligence (ACIA). It also includes a brief summary of two papers from invited speakers. The Catalan Association for Artificial Intelligence was founded in 1994 with the aim of**

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**fostering cooperation among researchers from the Catalan-speaking AI research community. Collaboration between ACIA members and the wider international AI community has also been well-established now for many years. The papers in these proceedings reflect this collaboration and include contributions not only from the Catalan-speaking regions of Spain, but also from France and Italy, and from as far afield as Mexico and Australia. Of all the fields in computer science, AI is the one most intertwined with all sorts of disciplines dealt with in the human experience, often employing lessons learnt in one discipline to implement a task in another. The papers in this**

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**volume reflect the rich iversity in AI, covering areas such as logics, natural language, machine learning, computer vision, robotics and multi-agent systems.**

**"We propose that a 2 month, 10 man study of artificial intelligence be carried out during the summer of 1956 at Dartmouth College in Hanover, New Hampshire. The study is to proceed.... Last year the 50th anniversary of the Dartmouth AI project proposal by McCarthy, Minsky, Rochester and Shannon was celebrated. Years later, and following similar traditions of a number of AI associations, a call was launched in 1997 by the Catalan Association for Artificial Intelligence (ACIA) to organize an annual**

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**conference to promote synergies in the research community of its influence, the seeder for the 1st Catalan Conference on Artificial Intelligence (CCIA98) which took place in Tarragona on October 1998. The editors of this book are very glad to celebrate the 10th anniversary of the International Conference of the ACIA (CCIA07) in Sant Juli de Lria (Andorra), October 25-26th, 2007. The good health of the Catalan AI community and its influence area is witnessed by the representative selection of papers gathered in this book and presented at CCIA07. The book is organized according to the different areas in which the papers were distributed for their presentation during the**

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**conference, namely: Constraint Satisfaction, Agents, Data Processing, Case-Based Reasoning, Computer Vision, Natural Language Processing, Uncertainty and Fuzziness, Robotics, and Applications. The editors believe that all the papers collected in this volume can be of interest to any computer scientist or engineer interested in AI."**

**This book constitutes the thoroughly refereed post-proceedings of four workshops held as satellite events of the JSAI International Symposia on Artificial Intelligence 2010, in Tokyo, Japan, in November 2010. The 28 revised full papers with four papers for the following four workshops presented were carefully reviewed**

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**and selected from 70 papers. The papers are organized in sections Logic and Engineering of Natural Language Semantics (LENLS), Juris-Informatics (JURISIN), Advanced Methodologies for Bayesian Networks (AMBN), and Innovating Service Systems (ISS).**

**This new book, by one of the most respected researchers in Artificial Intelligence, features a radical new 'evolutionary' organization that begins with low level intelligent behavior and develops complex intelligence as the book progresses.**

**Argumentation in Artificial Intelligence**

**Artificial Intelligence**

**Innovations in Applied Artificial Intelligence**

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**17th Conference on Artificial Intelligence in Medicine, AIME 2019, Poznan, Poland, June 26–29, 2019, Proceedings**

**AI 2009: Advances in Artificial Intelligence**

**11th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2005, Santiago de Compostela, Spain, November 16-18, 2005, Revised Selected Papers From Concept to Applications**

Dr. Lester A. Gerhardt Professor and Chairman Electrical, Computer, and Systems Engineering Rensselaer Polytechnic Institute Troy, New York 12180 This book is a collection of papers on the subject of Robotics and Artificial Intelligence. Most of the papers

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contained herein were presented as part of the program of the NATO Advanced Study Institute held in June 1983 at Castel vecchio Pascoli, Italy on the same subject. Attendance at this two week Institute was by invitation only, drawing people internationally representing industry, government and the academic community worldwide. Many of the people in attendance, as well as those presenting papers, are recognized leaders in the field. In addition to the formal paper presentations, there were several informal work shops. These included a workshop on sensing, a workshop on educational methodology in the subject area, as examples. This



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book is an outgrowth and direct result of that Institute and includes the papers presented as well as a few others which were stimulated by that meeting. A special note is the paper entitled "State-of-the-Art and Predictions for Artificial Intelligence and Robotics" by Dr. R. Nagel which appears in the Introduction and Overview chapter of this book. This paper was originally developed as part of a study for the United States Army performed by the National Research Council of the National Academy of Science and published as part of a report entitled "Applications of Robotics and Artificial Intelligence to Reduce Risk and Improve Effectiveness" by

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National Academy Press in 1983. 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

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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 (PC), 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

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constraints, machine learning and planning, natural language processing and AI applications. The program for IBERAMIA 2008 also included three invited speakers: Christian Lemaître (LANIA, Mexico), R. Michael Young (NCSU, USA) and Miguel Dias (Microsoft LDMC, Lisbon) as well as two workshops. This book constitutes the proceedings of the 41st SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence, AI 2021, which was supposed to be held in Cambridge, UK, in December 2021. The conference was held virtually due to the COVID-19 pandemic. The 22 full papers and 10 short papers

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presented in this volume were carefully reviewed and selected from 37 submissions. The volume includes technical papers presenting new and innovative developments in the field as well as application papers presenting innovative applications of AI techniques in a number of subject domains. The papers are organized in the following topical sections: technical paper; machine learning; AI techniques; short technical stream papers; application papers; applications of machine learning; AI for medicine; advances in applied AI; and short application stream papers.

This book constitutes the thoroughly referred post-

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proceedings of the 11th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2005, held in Santiago de Compostela, Spain in November 2005. The 48 revised full papers presented together with an invited paper were carefully selected. The papers span the entire spectrum of artificial intelligence from foundational and theoretical issues to advanced applications in various fields.

Artificial Intelligence in Precision Health

Convergence of Edge Computing and Artificial Intelligence

AI and the Singularity

Modeling Decisions for Artificial Intelligence

21st Conference of the Canadian

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Society for Computational Studies of Intelligence, Canadian AI 2008, Windsor, Canada, May 28-30, 2008. Proceedings

11th Ibero-American Conference on AI, Lisbon, Portugal, October 14-17, 2008. Proceedings

21st Australasian Joint Conference on Artificial Intelligence, Auckland, New Zealand, December 3-5, 2008, Proceedings

Argumentation is all around us. Letters to the Editor often make points of consistency, and "Why" is one of the most frequent questions in language, asking for reasons behind behaviour. And argumentation is more than 'reasoning' in the recesses of single minds, since it crucially involves interaction. It cements the coordinated social behaviour that has allowed us, in small bands of not

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particularly physically impressive primates, to dominate the planet, from the mammoth hunt all the way up to organized science. This volume puts argumentation on the map in the field of Artificial Intelligence. This theme has been coming for a while, and some famous pioneers are chapter authors, but we can now see a broader systematic area emerging in the sum of topics and results. As a logician, I find this intriguing, since I see AI as 'logic continued by other means', reminding us of broader views of what my discipline is about. Logic arose originally out of reflection on many-agent practices of disputation, in Greek Antiquity, but also in India and China. And logicians like me would like to return to this broader agenda of rational agency and intelligent interaction. Of course, Aristotle also gave us a formal systems methodology that deeply in



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uenced the field, and eventually connected up happily with mathematical proof and foundations.

Transfer learning deals with how systems can quickly adapt themselves to new situations, tasks and environments. It gives machine learning systems the ability to leverage auxiliary data and models to help solve target problems when there is only a small amount of data available. This makes such systems more reliable and robust, keeping the machine learning model faced with unforeseeable changes from deviating too much from expected performance. At an enterprise level, transfer learning allows knowledge to be reused so experience gained once can be repeatedly applied to the real world. For example, a pre-trained model that takes account of user privacy can be downloaded and adapted at the edge of a computer network. This

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self-contained, comprehensive reference text describes the standard algorithms and demonstrates how these are used in different transfer learning paradigms. It offers a solid grounding for newcomers as well as new insights for seasoned researchers and developers.

Advances in artificial intelligence (AI) highlight the potential of this technology to affect productivity, growth, inequality, market power, innovation, and employment. This volume seeks to set the agenda for economic research on the impact of AI. It covers four broad themes: AI as a general purpose technology; the relationships between AI, growth, jobs, and inequality; regulatory responses to changes brought on by AI; and the effects of AI on the way economic research is conducted. It explores the economic influence of machine learning, the branch of

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computational statistics that has driven much of the recent excitement around AI, as well as the economic impact of robotics and automation and the potential economic consequences of a still-hypothetical artificial general intelligence. The volume provides frameworks for understanding the economic impact of AI and identifies a number of open research questions.

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The use of mathematical logic as a formalism for artificial intelligence was recognized by John McCarthy in 1959 in his paper on Programs with Common

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Sense. In a series of papers in the 1960's he expanded upon these ideas and continues to do so to this date. It is now 41 years since the idea of using a formal mechanism for AI arose. It is therefore appropriate to consider some of the research, applications and implementations that have resulted from this idea. In early 1995 John McCarthy suggested to me that we have a workshop on Logic-Based Artificial Intelligence (LBAI). In June 1999, the Workshop on Logic-Based Artificial Intelligence was held as a consequence of McCarthy's suggestion. The workshop came about with the support of Ephraim Glinert of the National Science Foundation (IIS-9S2013S), the American Association for Artificial Intelligence who provided support for graduate students to attend, and Joseph JaJa, Director of the University of Maryland Institute for

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Advanced Computer Studies who provided both manpower and financial support, and the Department of Computer Science. We are grateful for their support. This book consists of refereed papers based on presentations made at the Workshop. Not all of the Workshop participants were able to contribute papers for the book. The common theme of papers at the workshop and in this book is the use of logic as a formalism to solve problems in AI.

15th Portuguese Conference on Artificial Intelligence, EPIA 2011, Lisbon, Portugal, October 10-13, 2011, Proceedings

Artificial Intelligence for a Better Future  
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