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The proceedings set LNCS 11727, 11728, 11729, 11730, and 11731 constitute the proceedings of the 28th International Conference on Artificial Neural Networks, ICANN 2019, held in Munich, Germany, in September 2019. The total of 277 full papers and 43 short papers presented in these proceedings was carefully reviewed and selected from 494 submissions. They

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were organized in 5 volumes focusing on theoretical neural computation; deep learning; image processing; text and time series; and workshop and special sessions.

The problem of Multiagent Learning (or MAL) is concerned with the study of how intelligent entities can learn and adapt in the presence of other such entities that are simultaneously adapting. The problem is often studied in the stylized settings provided by repeated matrix games (a.k.a. normal form games). The goal of this book is to develop MAL algorithms for such a setting that achieve a new set of objectives which have not been previously achieved. In particular this book deals with learning in the presence of a new class of agent behavior that has not been studied or modeled before in a

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MAL context: Markovian agent behavior. Several new challenges arise when interacting with this particular class of agents. The book takes a series of steps towards building completely autonomous learning algorithms that maximize utility while interacting with such agents. Each algorithm is meticulously specified with a thorough formal treatment that elucidates its key theoretical properties.

Data Structures, Computer Graphics, and Pattern Recognition focuses on the computer graphics and pattern recognition applications of data structures methodology. This book presents design related principles and research aspects of the computer graphics, system design, data management, and pattern recognition tasks. The topics include the data structure

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design, concise structuring of geometric data for computer aided design, and data structures for pattern recognition algorithms. The survey of data structures for computer graphics systems, application of relational data structures in computer graphics, and observations on linguistics for scene analysis are also elaborated. This text likewise covers the design of satellite graphics systems, interactive image segmentation, surface representation for computer aided design, and error-correcting parsing for syntactic pattern recognition. This publication is valuable to practitioners in data structures, particularly those who are applying real computer systems to problems involving image, speech, and medical data.

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Artificial intelligence (AI) plays a vital part in the continued development of computer science and informatics. The AI applications employed in fields such as medicine, economics, linguistics, philosophy, psychology and logical analysis, not forgetting industry, are now indispensable for the effective functioning of a multitude of systems. This book presents the papers from the 20th biennial European Conference on Artificial Intelligence, ECAI 2012, held in Montpellier, France, in August 2012. The ECAI conference remains Europe's principal opportunity for researchers and practitioners of Artificial Intelligence to gather and to discuss the latest trends and challenges in all subfields of AI, as well as to demonstrate innovative applications and uses of advanced AI

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technology. ECAI 2012 featured four keynote speakers, an extensive workshop program, seven invited tutorials and the new Frontiers of Artificial Intelligence track, in which six invited speakers delivered perspective talks on particularly interesting new research results, directions and trends in Artificial Intelligence or in one of its related fields. The proceedings of PAIS 2012 and the System Demonstrations Track are also included in this volume, which will be of interest to all those wishing to keep abreast of the latest developments in the field of AI.

The 3rd Workshop on Formal Approaches to Agent-Based Systems (FAABS-III) was held at the Greenbelt Marriott Hotel (near NASA Goddard Space Flight Center) in April 2004 in

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conjunction with the IEEE Computer Society. The first FAABS workshop was held in April 2000 and the second in October 2002. Interest in agent-based systems continues to grow and this is seen in the wide range of conferences and journals that are addressing the research in this area as well as the prototype and developmental systems that are coming into use. Our third workshop, FAABS-III, was held in April, 2004. This volume contains the revised papers and posters presented at that workshop. The Organizing Committee was fortunate in having significant support in the planning and organization of these events, and were privileged to have well-known keynote speakers Prof. J Moore (FAABS-I), Prof. Sir Roger Penrose (FAABS-II), and Prof. John McCarthy (FAABS-III),

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who spoke on the topic of se-aware computing systems, auguring perhaps a greater interest in autonomic computing as part of future FAABS events. We are grateful to all who attended the workshop, presented papers or posters, and participated in panel sessions and both formal and informal discussions to make the workshop a great success. Our thanks go to the NASA Goddard Space Flight Center, Codes 588 and 581 (Software Engineering Laboratory) for their financial support and to the IEEE Computer Society (Technical Committee on Complexity in Computing) for their sponsorship and organizational assistance.

This book constitutes the thoroughly refereed proceedings of the Second International Joint Conference on Natural



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Language Processing, IJCNLP 2005, held in Jeju Island, Korea in October 2005. The 88 revised full papers presented in this volume were carefully reviewed and selected from 289 submissions. The papers are organized in topical sections on information retrieval, corpus-based parsing, Web mining, rule-based parsing, disambiguation, text mining, document analysis, ontology and thesaurus, relation extraction, text classification, transliteration, machine translation, question answering, morphological analysis, text summarization, named entity recognition, linguistic resources and tools, discourse analysis, semantic analysis NLP applications, tagging, language models, spoken language, and terminology mining. This two-volume book contains the refereed proceedings of

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The Second International Conference on Globalization: Challenges for Translators and Interpreters organized by the School of Translation Studies, Jinan University (China) on its Zhuhai campus, October 27-29, 2016. The interrelation between translation and globalization is essential reading for not only scholars and educators, but also anyone with an interest in translation and interpreting studies, or a concern for the future of our world's languages and cultures. The past decade or so, in particular, has witnessed remarkable progress concerning research on issues related to this topic. Given this dynamic, The Second International Conference on Globalization: Challenges for Translators and Interpreters organized by the School of Translation Studies, Jinan

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University (China) organized by the School of Translation Studies, Jinan University (China), was held at the Zhuhai campus of Jinan University on October 27-29, 2016. This conference attracts a large number of translators, interpreters and researchers, providing a rare opportunity for academic exchange in this field. The 135 full papers accepted for the proceedings of The Second International Conference on Globalization: Challenges for Translators and Interpreters organized by the School of Translation Studies, Jinan University (China) were selected from 350 submissions. For each paper, the authors were shepherded by an experienced researcher. Generally, all of the submitted papers went through a rigorous peer-review process.

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[28th International Conference on Artificial Neural Networks,  
Munich, Germany, September 17–19, 2019, Proceedings](#)  
[Second International Joint Conference, IC3K 2010, Valencia,  
Spain, October 25-28, 2010, Revised Selected Papers](#)  
[Second International Joint Conference, RuleML+RR 2018,  
Luxembourg, Luxembourg, September 18–21, 2018,  
Proceedings](#)  
[Knowledge Discovery, Knowledge Engineering and  
Knowledge Management](#)  
[Revised and Selected Papers of the International Joint  
Conference, IJCCI 2010, Valencia, Spain, October 2010](#)  
[Rules and Reasoning](#)  
[Advances in Artificial Intelligence - IBERAMIA-SBIA 2006](#)

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[Automated Reasoning](#)

[Second International Joint Conference, AmI 2011,  
Amsterdam, The Netherlands, November 16-18, 2011,  
Proceedings](#)

[2nd International Joint Conference, 10th Ibero-American  
Conference on AI, 18th Brazilian AI Symposium, Ribeirao  
Preto, Brazil, October 23-27, 2006](#)

[Business and Social Sciences](#)

[7th International Conference, KES 2003, Oxford, UK,  
September 3-5, 2003, Proceedings,](#)

[Joint Workshop on Automated Reasoning for Security  
Protocol Analysis and Issues in the Theory of Security,  
ARSPA-WITS 2009, York, UK, March 28-29, 2009, Revised](#)

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[Selected Papers](#)

[Knowledge-Based Intelligent Information and Engineering  
Systems 1.](#)

[Information Technology and Mobile Communication](#)

*This book constitutes the proceedings of the International Joint Conference on Rules and Reasoning, RuleML+RR 2018, held in Luxembourg during September 2018. This is the second conference of a new series, joining the efforts of two existing conference series, namely "RuleML" (International Web Rule*

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*Symposium) and "RR" (Web Reasoning and Rule Systems). The 10 full research papers presented together with 5 long technical communications and 7 short papers were carefully reviewed and selected from 33 submissions.*

*This book constitutes the refereed proceedings of the Second International Joint Conference on Electronic Voting, E-Vote-ID 2017, held in Bregenz, Austria, in October 2017. The 16 full papers presented in this volume were*

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*carefully reviewed and selected from 48 submissions. In addition the book contains 3 keynote talks. The papers deal with security, usability and technical issues; administrative, legal, political and social issues; and election and practical experiences.*

*1.0 2 The attention then turned to the problem of "Body separation", i.e. separation of occluding bodies in a scene (See [Guzman), [Falk), and [Waltz)). Grape ([Grape)) combined the*



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*separation of bodies with recognition, by removing parts of the scene recognized as belonging to a known body. All of these techniques were designed to work with polyhedral objects only, and extensively use the properties of edges and vertices. Though some impressive results have been reported ([Waltz], [Grape]), and perhaps some useful abstractions can be made, the specific techniques used fail to generalize to a wider class of*

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*objects. Among previous work on curved objects, B.K.P. Horn ([Horn]) presented techniques for extracting three dimensional depth data from a TV image, using reflection characteristics of the surface. Krakauer ([Krakauer]) represented objects by connections of brightness contours. Ambler et al ([Ambler]) describe experiments with simple shapes, including curved objects, using relations within a two-dimensional image. However, none of*

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*these efforts really addresses the problem of "shape" representation and description. Work on outdoor scene analysis is also concerned with non-polyhedral objects ([Bajcsy], [Yakimovsky]), but again no attention has been paid to shape analysis. This book constitutes the refereed proceedings of the International Conference on Advances in Information Technology and Mobile Communication, AIM 2011, held at Nagpur, India, in*

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*April 2011. The 31 revised full papers presented together with 27 short papers and 34 poster papers were carefully reviewed and selected from 313 submissions. The papers cover all current issues in theory, practices, and applications of Information Technology, Computer and Mobile Communication Technology and related topics.*

*This Festschrift volume is published in Honor of Yaacov Choueka on the occasion*

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*of this 75th birthday. The present three-volumes liber amicorum, several years in gestation, honours this outstanding Israeli computer scientist and is dedicated to him and to his scientific endeavours. Yaacov's research has had a major impact not only within the walls of academia, but also in the daily life of lay users of such technology that originated from his research. An especially amazing aspect of the temporal span of his*

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*scholarly work is that half a century after his influential research from the early 1960s, a project in which he is currently involved is proving to be a sensation, as will become apparent from what follows. Yaacov Choueka began his research career in the theory of computer science, dealing with basic questions regarding the relation between mathematical logic and automata theory. From formal languages, Yaacov moved to natural languages. He was a*

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*founder of natural-language processing in Israel, developing numerous tools for Hebrew. He is best known for his primary role, together with Aviezri Fraenkel, in the development of the Responsa Project, one of the earliest fulltext retrieval systems in the world. More recently, he has headed the Friedberg Genizah Project, which is bringing the treasures of the Cairo Genizah into the Digital Age. This second part of the three-volume set*

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*covers a range of topics related to the application of information technology in humanities, law, and narratives. The papers are grouped in topical sections on: humanities computing; narratives and their formal representation; history of ideas: the numerate disciplines; law, computer law, and legal computing.*

*This book examines how business, the social sciences, science and technology will impact the future of ASEAN.*



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*Following the ASEAN VISION 2020, it analyses the issues faced by ASEAN countries, which are diverse, while also positioning ASEAN as a competitive entity through partnerships. On the 30th anniversary of ASEAN, all ASEAN leaders agreed to the establishment of the ASEAN VISION 2020, which delineates the formation of a peaceful, stable and dynamically developed region while maintaining a community of caring societies in Malaysia, Indonesia,*

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*Singapore, Brunei, Vietnam, Thailand, the Philippines, Myanmar, Laos and Cambodia. In keeping with this aspiration, Universiti Teknologi MARA (UitM) Perlis took the initial steps to organise conferences and activities that highlight the role of the ASEAN region. The Second International Conference on the Future of ASEAN (ICoFA) 2017 was organised by the Office of Academic Affairs, Universiti Teknologi MARA Perlis, to promote more*

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*comprehensive integration among ASEAN members. This book, divided into two volumes, offers a useful guide for all those engaged in research on business, the social sciences, science and technology. It will also benefit researchers worldwide who want to gain more knowledge about ASEAN countries. This book comprises the refereed proceedings of the International Conference, AIM/CCPE 2012, held in Bangalore, India, in April 2012. The*

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*papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of research and development activities in computer science, information technology, computational engineering, mobile communication, control and instrumentation, communication system, power electronics and power engineering.*

[Third International Workshop, FAABS  
2004, Greenbelt, MD, April 26-27, 2004,](#)

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Revised Papers

[Revised Selected Papers](#)

[Proceedings of the NYU Symposium, May, 1983](#)

[Second International Conference on Chemical Engineering Education](#)

[Mobile Communication and Power Engineering](#)

[Results of RAAD](#)

[Advances in Service and Industrial Robotics](#)

[Artificial Neural Networks and Machine Learning - ICANN 2019: Deep Learning](#)

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[Second International Joint Conference,  
APWeb-WAIM 2018, Macau, China, July  
23-25, 2018, Proceedings](#)

[Computational Intelligence](#)

[Ambient Intelligence](#)

[Computer Analysis of Scenes of  
3-Dimensional Curved Objects](#)

[Second International Joint Conference,  
IJCAR 2004, Cork, Ireland, July 4-8,  
2004, Proceedings](#)

[Sample Efficient Multiagent Learning in](#)

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the Presence of Markovian Agents  
17th International Conference, DEXA  
2006, Krakow, Poland, September 4-8,  
2006, Proceedings

*This book constitutes the refereed proceedings of the Second International Joint Conference on Ambient Intelligence, AmI 2011, held in Amsterdam, The Netherlands, in November 2011. The 58 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers cover a wide range of topics such as haptic interfaces, smart sensing, smart*

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*environments, novel interaction technologies, affecting human behaviour, privacy and trust, landscape and ambient assisted living.*

*"Papers presented at the 1983 NYU Symposium on Artificial Intelligence Applications for Business"--Pref.*

*The region of the Fourth Nile Cataract in northern Sudan is a hitherto little researched part of the Nile valley which will soon be flooded by the rising waters of a large hydro-electric dam. The reservoir will cause the irreversible loss of the rich cultural heritage of this remote part of the Middle Nile. As an answer to this threat the*



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*National Corporation for Antiquities and Museums of the Sudan inaugurated the Merowe Dam Archaeological Salvage Project, in which numerous international missions from several European countries and the United States participate. The volume assembles 20 papers from the fields of archaeology, ethnography and geography originally presented at the 2nd International Conference on the Archaeology of the 4th Nile Cataract held at Humboldt University Berlin in 2005. The contributions span a wide thematic and temporal range from general survey results and site excavation reports from different concessions to*

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*specialised articles on burial types, pottery, rock art, inscriptional material, site preservation and on the modern life of the Manasir people.*

*In this ground-breaking book, John Koza shows how this remarkable paradigm works and provides substantial empirical evidence that solutions to a great variety of problems from many different fields can be found by genetically breeding populations of computer programs. Genetic programming may be more powerful than neural networks and other machine learning techniques, able to solve problems in a wider range of disciplines. In*

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*this ground-breaking book, John Koza shows how this remarkable paradigm works and provides substantial empirical evidence that solutions to a great variety of problems from many different fields can be found by genetically breeding populations of computer programs. Genetic Programming contains a great many worked examples and includes a sample computer code that will allow readers to run their own programs. In getting computers to solve problems without being explicitly programmed, Koza stresses two points: that seemingly different problems from a variety of fields can be reformulated*

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*as problems of program induction, and that the recently developed genetic programming paradigm provides a way to search the space of possible computer programs for a highly fit individual computer program to solve the problems of program induction. Good programs are found by evolving them in a computer against a fitness measure instead of by sitting down and writing them.*

*Readings in Artificial Intelligence and Software Engineering covers the main techniques and application of artificial intelligence and software engineering. The ultimate goal of artificial intelligence*

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*applied to software engineering is automatic programming. Automatic programming would allow a user to simply say what is wanted and have a program produced completely automatically. This book is organized into 11 parts encompassing 34 chapters that specifically tackle the topics of deductive synthesis, program transformations, program verification, and programming tutors. The opening parts provide an introduction to the key ideas to the deductive approach, namely the correspondence between theorems and specifications and between constructive proofs and programs. These parts also*

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*describes automatic theorem provers whose development has been designed for the programming domain. The subsequent parts present generalized program transformation systems, the problems involved in using natural language input, the features of very high level languages, and the advantages of the programming by example system. Other parts explore the intelligent assistant approach and the significance and relation of programming knowledge in other programming system. The concluding parts focus on the features of the domain knowledge system and the artificial intelligence programming.*

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*Software engineers and designers and computer programmers, as well as researchers in the field of artificial intelligence will find this book invaluable.*

*This book gathers contributions by researchers from several countries on all major areas of robotic research, development and innovation, as well as new applications and current trends. The topics covered include: novel designs and applications of robotic systems, intelligent cooperating and service robots, advanced robot control, human-robot interfaces, robot vision systems, mobile robots, humanoid and walking robots,*

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*bio-inspired and swarm robotic systems, aerial, underwater and spatial robots, robots for ambient assisted living, medical robots and bionic prostheses, cognitive robots, cloud robotics, ethical and social issues in robotics, etc. Given its scope, the book offers a source of information and inspiration for researchers seeking to improve their work and gather new ideas for future developments. The contents reflect the outcomes of the activities of RAAD (International Conference on Robotics in Alpe-Adria-Danube Region) in 2020.*

*This book constitutes the thoroughly refereed*



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*post-conference proceedings of the Second International Joint Conference on Knowledge Discovery, Knowledge Engineering, and Knowledge Management, IC3K 2010, held in Valencia, Spain, in October 2010. This book includes revised and extended versions of a strict selection of the best papers presented at the conference; 26 revised full papers together with 2 invited lectures were carefully reviewed and selected from 369 submissions. According to the three covered conferences KDIR 2010, KEOD 2010, and KMIS 2010, the papers are organized in topical sections on knowledge discovery and*

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*information retrieval, knowledge engineering  
and ontology development, and on knowledge  
management and information sharing.*

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Business](#)

[Readings in Artificial Intelligence](#)

[PROCEEDINGS OF THE SECOND INTERNATIONAL  
CONFERENCE ON GLOBALIZATION: CHALLENGES FOR  
TRANSLATORS AND INTERPRETERS](#)

[Proceedings of the Ninth International Joint  
Conference on Artificial Intelligence](#)

[Language, Culture, Computation: Computing for  
the Humanities, Law, and Narratives](#)

[Proceedings of the Fifteenth International](#)

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[Joint Conference on Artificial Intelligence,  
Nagoya, Japan, August 23-29, 1997](#)

[Pattern Recognition](#)

[Second international Joint Conference,  
AIM/CCPE 2012, Bangalore, India, April 27-28,  
2012. Revised Papers](#)

[Readings in Artificial Intelligence and  
Software Engineering](#)

[Proceedings of the Second International  
Conference \(KR91\)](#)

[Second International Joint Conference, E-Vote-  
ID 2017, Bregenz, Austria, October 24-27,  
2017, Proceedings](#)

[Incorporating Applications and Innovations in](#)

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## Revised Papers

[Intelligent Systems XIX Proceedings of AI-2011, the Thirty-first SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence Second International Joint Conference, Jeju Island, Korea, October 11-13, 2005, Proceedings](#)

[Second International Conference, ICAART 2010, Valencia, Spain, January 22-24, 2010. Revised Selected Papers](#)

[The International Joint Conference of the Fourth IEEE International Conference on Fuzzy Systems and the Second International Fuzzy Engineering Symposium : March 20-24, 1995,](#)

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This book constitutes the proceedings of the 11th Mexican Conference on Pattern Recognition, MCPR 2019, held in Quer é taro, Mexico, in June 2019. The 40 papers presented in this volume were carefully reviewed and selected from 86 submissions. They were organized in topical sections named: artificial intelligence techniques and recognition; computer vision; industrial and medical applications of pattern recognition; image processing and analysis; pattern recognition techniques; signal processing and analysis; natural language, and processing and recognition.

The papers in this volume are the refereed papers

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presented at AI-2011, the Thirty-first SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence, held in Cambridge in December 2011 in both the technical and the application streams. They present new and innovative developments and applications, divided into technical stream sections on Planning, Evolutionary Algorithms, Speech and Vision, and Machine Learning, followed by application stream sections on Knowledge Discovery and Data Mining, Machine Learning, Evolutionary Algorithms and AI in Action. The volume also includes the text of short papers presented as posters at the conference. This is the twenty-eighth volume in the Research and Development

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in Intelligent Systems series, which also incorporates the nineteenth 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.

This book constitutes the thoroughly refereed post-conference proceedings of the Second International Conference on Agents and Artificial Intelligence, ICAART 2010, held in Valencia, Spain, in January 2010. The 17 revised full papers presented together with an invited paper were carefully reviewed and selected from 364 submissions. Same as the conference the papers are organized in two simultaneous tracks: Artificial

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Intelligence and Agents. 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.

This book constitutes the refereed proceedings of the 17th International Conference on Database and Expert Systems Applications, DEXA 2006. The book presents 90 revised full papers together with 1 invited paper. The papers are organized in topical sections on XML, data and information, data mining and data warehouses, database applications, WWW, bioinformatics, process automation and workflow, knowledge management and



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expert systems, database theory, query processing, and privacy and security.

Readings in Artificial Intelligence focuses on the principles, methodologies, advancements, and approaches involved in artificial intelligence. The selection first elaborates on representations of problems of reasoning about actions, a problem similarity approach to devising heuristics, and optimal search strategies for speech understanding control. Discussions focus on comparison with existing speech understanding systems, empirical comparisons of the different strategies, analysis of distance function approximation, problem similarity, problems of reasoning about action,

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search for solution in the reduction system, and relationship between the initial search space and the higher level search space. The book then examines consistency in networks of relations, non-resolution theorem proving, using rewriting rules for connection graphs to prove theorems, and closed world data bases. The manuscript tackles a truth maintenance system, elements of a plan-based theory of speech acts, and reasoning about knowledge and action. Topics include problems in reasoning about knowledge, integration knowledge and action, models of plans, compositional adequacy, truth maintenance mechanisms, dialectical arguments, and assumptions and the problem of control.

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The selection is a valuable reference for researchers wanting to explore the field of artificial intelligence. The present book includes a set of selected extended papers from the second International Joint Conference on Computational Intelligence (IJCCI 2010), held in Valencia, Spain, from 24 to 26 October 2010. The conference was composed by three co-located conferences: The International Conference on Fuzzy Computation (ICFC), the International Conference on Evolutionary Computation (ICEC), and the International Conference on Neural Computation (ICNC). Recent progresses in scientific developments and applications in these three areas are reported in this book. IJCCI

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received 236 submissions, from 49 countries, in all continents. After a double blind paper review performed by the Program Committee, only 30 submissions were accepted as full papers and thus selected for oral presentation, leading to a full paper acceptance ratio of 13%. Additional papers were accepted as short papers and posters. A further selection was made after the Conference, based also on the assessment of presentation quality and audience interest, so that this book includes the extended and revised versions of the very best papers of IJCCI 2010. Commitment to high quality standards is a major concern of IJCCI that will be maintained in the next editions, considering not only the

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stringent paper acceptance ratios but also the quality of the program committee, keynote lectures, participation level and logistics.

The proceedings of the Second International Conference on [title] held in Cambridge, Massachusetts, April 1991, comprise 55 papers on topics including the logical specifications of reasoning behaviors and representation formalisms, comparative analysis of competing algorithms and formalisms, and ana

[Data Structures, Computer Graphics, and Pattern Recognition](#)

[Genetic Programming](#)

[Database and Expert Systems Applications](#)

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[Electronic Voting](#)

[Second International Conference of the South Asian  
Society \[of\] Criminology and Victimology \(SASCV\), 11-13  
January 2013, Kanyakumari, Tamil Nadu, India](#)

[20th European Conference on Artificial Intelligence](#)

[Formal Approaches to Agent-Based Systems](#)

[Principles of Knowledge Representation and Reasoning](#)

[Natural Language Processing - IJCNLP 2005](#)

[On the Programming of Computers by Means of Natural  
Selection](#)

[IJCAI-97](#)

[Web and Big Data](#)

[Foundations and Applications of Security Analysis](#)

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[Information Management Report](#)

[Proceedings of the Second International Conference on  
the Future of ASEAN \(ICoFA\) 2017 - Volume 1](#)

Second International Conference on Chemical Engineering Education presents the situation in chemical engineering education in Germany, Hungary, Spain, Japan, and in the United States. This book depicts an awareness of the problems of professional education together with a wide spectrum of opinions on their solution. Organized into 39 chapters, this book begins with an overview of the actual situation of chemical engineering education program in Spain. This text then examines the detailed formalities of chemical engineering in secondary schools. Other chapters consider

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the change in chemical engineering education in Japan due to the change of chemical industries as well as by a great change of students' attitude. This book discusses as well the curriculum proposal for the education of undergraduate and graduate levels as well as foreign students' education. The final chapter reviews the European situation of chemical engineering education system. This book is a valuable resource for teachers and students of chemical engineering. This book constitutes the refereed proceedings of the 2nd International Joint Conference of the 10th Ibero-American Conference on Artificial Intelligence, IBERAMIA 2006, and the 18th Brazilian Artificial Intelligence Symposium, SBIA 2006. The book presents 62 revised full papers together with 4 invited lectures. Topical sections include AI in education



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and intelligent tutoring systems, autonomous agents and multiagent systems, computer vision and pattern recognition, evolutionary computation and artificial life, and more.

The two volumes LNAI 2773 and LNAI 2774 constitute the refereed proceedings of the 7th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES 2003, held in Oxford, UK in September 2003. The 390 revised papers and poster papers presented were carefully reviewed and selected from numerous submissions. Among the areas covered are knowledge-based systems, neural computing, fuzzy logic, uncertainty, machine learning, soft computing, agent systems, intelligent agents, data mining, knowledge discovery, hybrid intelligent systems, natural language processing, information retrieval, Web

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applications, case-based reasoning, evolutionary computing, signal processing, ontologies, decision making, human-computer interaction, intelligent user interfaces, neuroscience, intelligent agents, biocomputing, etc.

This volume constitutes the proceedings of the 2nd International Joint Conference on Automated Reasoning (IJCAR 2004) held July 4 – 8, 2004 in Cork, Ireland. IJCAR 2004 continued the tradition established at the first IJCAR in Siena, Italy in 2001, which brought together different research communities working in automated reasoning. The current IJCAR is the fusion of the following conferences: CADE: The International Conference on Automated Deduction, CALCULEMUS: Symposium on the Integration of Symbolic Computation and Mechanized Reasoning, FroCoS: Workshop

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on Frontiers of Combining Systems, FTP: The International Workshop on First-Order Theorem Proving, and TABLEAUX: The International Conference on Automated Reasoning with Analytic Tableaux and Related Methods. There were 74 research papers submitted to IJCAR as well as 12 system descriptions. After extensive reviewing, 26 research papers and 6 system - scriptions were accepted for presentation at the conference and publication in this volume. In addition, this volume also contains papers from the three invited speakers and a description of the CADE ATP system competition. We would like to acknowledge the enormous amount of work put in by the members of the program committee, the various organizing and steering c- mittees, the IJCAR o?cials, the invited speakers, and the additional referees named on the

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following pages. We would also like to thank Achim Brucker and Barbara Geiser for their help in producing this volume. This two-volume set, LNCS 10987 and 10988, constitutes the thoroughly refereed proceedings of the Second International Joint Conference, APWeb-WAIM 2018, held in Macau, China in July 2018. The 40 full papers presented together with 30 short papers, 6 demonstration papers and 3 keynotes were carefully reviewed and selected from 168 submissions. The papers are organized around the following topics: Text Analysis, Social Networks, Recommender Systems, Information Retrieval, Machine Learning, Knowledge Graph, Database and Web Applications, Data Streams, Data Minging and Application, Query Processing, Big Data and Blockchain. This book constitutes the thoroughly refereed post-

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conference proceedings of the Joint Workshop on Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security, ARSPA-WITS 2009, held in York, UK, in March 2009, in association with ETAPS 2009. The 12 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 27 submissions. The papers feature topics including formal specification, analysis and design of security protocols and their applications, the formal definition of various aspects of security such as access control mechanisms, mobile code security and denial-of-service attacks, the modeling of information flow and its application to confidentiality policies, system composition and covert channel analysis.

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