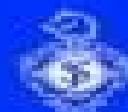


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New Frontiers in Artificial Intelligence

Joint JSAI 2001 Workshop Post-Proceedings



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New Frontiers In Artificial Intelligence Postproceedings Of The Joint Jsai 2001 Workshop

James F. Peters, Andrzej Skowron



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New Frontiers in Artificial Intelligence Takao Terano, Toyooki Nishida, Akira Namatame, Syrusaku Tsumoto, Yukio Ohsawa, Takashi Washio, 2003-06-30 This book constitutes the thoroughly refereed joint post proceedings of five international workshops organized by the Japanese Society of Artificial Intelligence JSAI in 2001 The 75 revised papers presented were carefully reviewed and selected for inclusion in the volume In accordance with the five workshops documented the book offers topical sections on social intelligence design agent based approaches in economic and complex social systems rough set theory and granular computing chance discovery and challenges in knowledge discovery and data mining *Chance Discoveries in Real World Decision Making* Yukio Ohsawa, 2006-09-06 For this book the editors invited and called for contributions from indispensable research areas relevant to chance discovery which has been defined as the discovery of events significant for making a decision and studied since 2000 From respective research areas as artificial intelligence mathematics cognitive science medical science risk management methodologies for design and communication the invited and selected authors in this book present their particular approaches to chance discovery The chapters here show contributions to identifying rare or hidden events and explaining their significance predicting future trends communications for scenario development in marketing and design identification effects and side effects of medicines etc The methods presented in this book are based on the interaction of human machine and human s living environment rather than based purely automated predictions of the future This is a promising direction of computer supported decision of human in a radically changing environment *Artificial Intelligence for Human Computing* Thomas S. Huang, Anton Nijholt, Maja Pantic, Alex Pentland, 2007-07-10 This book contains the thoroughly refereed post proceedings of two events discussing AI for Human Computing one Special Session during the Eighth International ACM Conference on Multimodal Interfaces 2006 and a Workshop organized in conjunction with the 20th International Joint Conference on Artificial Intelligence 2007 It covers foundational issues of human computing sensing humans and their activities and anthropocentric interaction models

New Frontiers in Artificial Intelligence Takashi Washio, Akito Sakurai, Katsuto Nakajima, Hideaki Takeda, Satoshi Tojo, Makoto Yokoo, 2006-06-27 This book presents the joint post proceedings of five international workshops organized by the Japanese Society for Artificial Intelligence during the 19th Annual Conference JSAI 2005 The volume includes 5 award winning papers of the main conference along with 40 revised full workshop papers covering such topics as logic and engineering of natural language semantics learning with logics agent network dynamics and intelligence conversational informatics and risk management systems with intelligent data analysis E-Service Intelligence Jie Lu, Da Ruan, Guangquan Zhang, 2007-03-09 Business organizations and governments are nowadays developing and providing internet based electronic services e services featuring various intelligent functions This book offers a thorough introduction and systematic overview of the new field e service intelligence It covers the state of the art of e service intelligence including both theorems and

applications and a broad range of topics are discussed

Communication in Multiagent Systems Marc-Phillipe

Huget, 2003-06-25 Agents in multiagent systems are concurrent autonomous entities that need to coordinate and to cooperate so as to perform their tasks these coordination and cooperation tasks might be achieved through communication Communication also called interaction by some authors thus represents one of the major topics in multiagent systems The state of the art of research on communication in multiagent systems is presented in this book First three seminal papers by Cohen and Perrault by Singh and by Davis and Smith present background information and introduce the newcomer to the area The main part of the book is devoted to current research work dealing with agent communication communication for coordination and argumentation protocols and dialogue games and conversational agents Finally the last paper deals with the future of agent communication *Chance Discovery* Yukio Ohsawa, Peter McBurney, 2013-03-09 Chance discovery means discovering chances the breaking points in systems the marketing windows in business etc It involves determining the significance of some piece of information about an event and then using this new knowledge in decision making The techniques developed combine data mining methods for finding rare but important events with knowledge management groupware and social psychology The reader will find many applications such as finding information on the Internet recognizing changes in customer behavior detecting the first signs of an imminent earthquake etc This first book dedicated to chance discovery covers the state of the art in the theory and methods and examines typical scenarios and it thus appeals to researchers working on new techniques and algorithms and also to professionals dealing with real world applications

Transactions on Rough Sets I James F. Peters, Andrzej Skowron, 2004-07-05 The LNCS journal Transactions on Rough Sets is devoted to the entire spectrum of rough sets related issues starting from logical and mathematical foundations through all aspects of rough set theory and its applications such as data mining knowledge discovery and intelligent information processing to relations between rough sets and other approaches to uncertainty vagueness and incompleteness such as fuzzy sets and theory of evidence This first volume of the Transactions on Rough Sets opens with an introductory article by Zdzislaw Pawlak the originator of rough sets Nine papers deal with rough set theory and eight are devoted to applications in various domains *Transactions on Rough Sets V* James F. Peters, Andrzej Skowron, 2006-10-12 The LNCS journal Transactions on Rough Sets is devoted to the entire spectrum of rough sets related issues from logical and mathematical foundations through all aspects of rough set theory and its applications such as data mining knowledge discovery and intelligent information processing to relations between rough sets and other approaches to uncertainty vagueness and incompleteness such as fuzzy sets and theory of evidence This fifth volume of the Transactions on Rough Sets is dedicated to the monumental life work and creative genius of Zdzislaw Pawlak the originator of rough sets who passed away in April 2006 It opens with a commemorative article that gives a brief coverage of Pawlak's works in rough set theory molecular computing philosophy painting and poetry Fifteen papers explore the theory of rough sets in various domains as

well as new applications of rough sets In addition this volume of the TRS includes a complete monograph on rough sets and approximate Boolean reasoning systems that includes both the foundations as well as applications of data mining

Regulated Agent-Based Social Systems Gabriela Lindemann, Daniel Moldt, Mario Paolucci, 2004-03-06 This book presents selected extended and reviewed versions of the papers accepted for the First International Workshop on Regulated Agent Systems Theory and Applications RASTA 2002 held in Bologna Italy in July 2002 as part of AAMAS 2002 In addition several new papers on the workshop theme are included as well these were submitted and reviewed in response to a further call for contributions The construction of artificial agent societies deals with questions and problems that are already known from human societies The 16 papers in this book establish an interdisciplinary community of social scientists and computer scientists devoting their research interests to exploiting social theories for the construction and regulation of multi agent systems **Meeting the Challenge of Social Problems via Agent-Based Simulation** T. Terano, H. Deguchi, K.

Takadama, 2012-12-06 The series of international workshops on Agent Based Approaches in Economic and Social Complex Systems AESCS is part of the worldwide activities on computational social and organizational sciences The second workshop AESCS 02 focusing on progress of agent based simulation was held in Tokyo in August 2002 AESCS 02 explored the frontiers of the field The importance of cumulative progress was emphasized in discussions of common tasks standard computational models replication and validation issues and evaluation and verification criteria Promoting multidisciplinary work in computational economics organizational science social dynamics and complex systems AESCS 02 brought together researchers from diverse fields This book contains the invited papers by Robert Axtell Shu Heng Chen and Takao Terano along with selected papers collected in three major sections Economic Systems Marketing and Management and Social Systems and Methodology Life-Like Characters Helmut Prendinger, Mitsuru Ishizuka, 2013-03-09 Life like characters is

one of the most exciting technologies for human computer interface applications today They convincingly take the roles of virtual presenters synthetic actors and sales personas teammates and tutors A common characteristic underlying their life likeness or believability as virtual conversational partners is computational models that provide them with affective functions such as synthetic emotions and personalities and implement human interactive behavior The wide dissemination of life like characters in multimedia systems however will greatly depend on the availability of control languages and tools that facilitate scripting of intelligent conversational behaviour This book presents the first comprehensive collection of the latest developments in scripting and representation languages for life like characters rounded off with an in depth comparison and synopsis of the major approaches Introducing toolkits for authoring animated characters further supports the ease of use of this new interface technology Life like characters being a vibrant research area various applications have been designed and implemented This book offers coverage of the most successful and promising applications ranging from product presentation and student training to knowledge integration and interactive gaming It also discusses the key challenges in the area and

provides design guidelines for employing life like characters *Active Mining* Hiroshi Motoda,2002 Focusing on data mining this work is a joint effort from researchers in Japan and includes a report on the forefront of data collection user centred mining and user interaction reaction It offers an overview of modern solutions with real world applications sharing hard learned experiences **Novel Developments in Granular Computing: Applications for Advanced Human Reasoning and Soft Computation** Yao, JingTao,2010-06-30 This book investigates granular computing GrC which emerged as one of the fastest growing information processing paradigms in computational intelligence and human centric systems Provided by publisher Rough Set Theory and Granular Computing Masahiro Inuiguchi,Shusaku Tsumoto,Shoji Hirano,2012-12-06

After 20 years of pursuing rough set theory and its applications a look on its present state and further prospects is badly needed The monograph *Rough Set Theory and Granular Computing* edited by Masahiro Inuiguchi Shoji Hirano and Shusaku Tsumoto meets this demand It presents the newest developments in this area and gives fair picture of the state of the art in this domain Firstly in the keynote papers by Zdzislaw Pawlak Andrzej Skowron and Sankar K Pal the relationship of rough sets with other important methods of data analysis Bayes theorem neuro computing and pattern recognition is thoroughly examined Next several interesting generalizations of the theory and new directions of research are presented Furthermore application of rough sets in data mining in particular rule induction methods based on rough set theory is presented and discussed Further important issue discussed in the monograph is rough set based data analysis including study of decisions making in conflict situations Last but not least some recent engineering applications of rough set theory are given They include a proposal of rough set processor architecture organization for fast implementation of basic rough set operations and discussion of results concerning advanced image processing for unmanned aerial vehicle Thus the monograph beside presenting wide spectrum of ongoing research in this area also points out new emerging areas of study and applications which makes it a valuable source of information to all interested in this domain Rough-Neural Computing Sankar Kumar Pal,Lech Polkowski,2012-12-06 Soft computing comprises various paradigms dedicated to approximately solving real world problems e g in decision making classification or learning among these paradigms are fuzzy sets rough sets neural networks genetic algorithms and others It is well understood now in the soft computing community that hybrid approaches combining various paradigms are very promising approaches for solving complex problems Exploiting the potential and strength of both neural networks and rough sets this book is devoted to rough neuro computing which is also related to the novel aspect of computing based on information granulation in particular to computing with words It provides foundational and methodological issues as well as applications in various fields **Discovery Science** Steffen Lange,Ken Satoh,Carl H.

Smith,2003-08-03 This volume contains the papers presented at the 5th International Conference on Discovery Science DS 2002 held at the Movenpick Hotel Lubbeck G many November 24-26 2002 The conference was supported by CorpoBase DFKI GmbH and JessenLenz The conference was collocated with the 13th International Conference on Algorithmic Learning Theory

ALT 2002 Both conferences were held in parallel and shared invited talks as well as all social events The combination of ALT 2002 and DS 2002 allowed for a comprehensive treatment of recent developments in computational learning theory and machine learning some of the cornerstones of discovery science In response to the call for papers 76 submissions were received The program committee selected 17 submissions as regular papers and 29 submissions as poster presentations of which 27 have been submitted for publication This selection was based on clarity significance and originality as well as on relevance to the rapidly evolving field of discovery science

Electronic Government Roland Traunmüller, 2012-02-02 The EGOV Conference Series intends to assess the state of the art in e Government and to provide guidance for research and development in this fast moving field The annual conferences bring together leading research experts and professionals from all over the globe Thus EGOV 2003 in Prague built on the achievements of the 1st EGOV Conference Aix en Provence 2002 which provided an illustrative overview of e Government activities This year the interest even increased nearly 100 contributions and authors coming from 34 countries In this way EGOV Conference 2003 was a reunion for professionals from all over the globe EGOV 2003 brought some changes in the outline and structure of the conference In line with the broadening of the field and a growing number of submissions it became necessary to decentralize the reviewing process So reviewing was done via stream chairs who deserve high praise for their dedicated work In addition a workshop part was included to cover some subjects of emerging significance such as dissemination networking and regional developments Further a subtitle of the conference was chosen that would mirror the expansion of e Government to e Governance Consequently in this year's conference governance democratic deliberation and legal issues occupied a growing share Last but not least GIS was incorporated as a topic due to the increasing importance of geographical information systems for planning and operations

Knowledge-Based and Intelligent Information and Engineering Systems, Part II Andreas Koenig, Andreas Dengel, Knut Hinkelmann, Koichi Kise, Robert J. Howlett, Lakhmi C. Jain, 2011-09-15 The four volume set LNAI 6881 LNAI 6884 constitutes the refereed proceedings of the 15th International Conference on Knowledge Based Intelligent Information and Engineering Systems KES 2011 held in Kaiserslautern Germany in September 2011 Part 2 The total of 244 high quality papers presented were carefully reviewed and selected from numerous submissions The 70 papers of Part 2 are organized in topical sections on web intelligence text and multimedia mining and retrieval intelligent tutoring systems and e learning environments other misc intelligent systems topics methods and techniques of artificial and computational intelligence in economics finance and decision making workshop on seamless integration of semantic technologies in computer supported office work systems innovations in chance discovery advanced knowledge based systems recent trends in knowledge engineering smart systems and their applications

Computational Intelligence and Mathematics for Tackling Complex Problems László T Kóczy, Jesús Medina-Moreno, Eloísa Ramírez-Poussa, Alexander Šostak, 2019-05-02 This book combines computational intelligence and mathematics to solve theoretical and real world problems The real challenges of engineering and other

applied sciences e.g. economics and management, the social sciences etc. and even everyday life are increasingly raising complex problems both in the usual sense but also in the mathematical and theoretical computer science sense which is referred to as intractability. Finding exact solutions to the latest problems in mathematics is impossible and it has been also shown that no further technical advance will ever make it possible to find general and exact solutions to such complex problems. Rather the goal is to find solutions that are good enough or acceptably accurate including models and corresponding algorithms which is most often achieved by combining traditional mathematical techniques and computational intelligence tools such as fuzzy systems, evolutionary and memetic algorithms and artificial neural networks. Consequently international funding programs such as the European Commission's current framework program for research and innovation Horizon 2020 and the preliminary research team building COST Actions are devoted to developing new instruments for tackling the challenges that we face in the current technological age. And it goes without saying that research topics concerning the interactions between computational intelligence and traditional mathematics play a key role in overcoming the obstacles associated with the intractability of complex problems. In this book mathematicians, engineers and other scientists highlight novel methodological results connecting these two main research areas and focusing on solving real life problems.

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