Les Systemes Multi Agents Vers Une Intelligence C

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Intelligent Agents for Telecommunication Applications Sahin Albayrak 1998-06-24 This book constitutes the refereed proceedings of the Second International Workshop on Intelligent Agents for Telecommunication Applications, IATA'98, held in Paris, France, in July 1998, in conjunction with the 1998 Agents World Conference. The book presents 17 revised full papers carefully selected for inclusion in the volume. The book is divided into topical sections on network architecture, network configuration and planning, network optimization, network management, agent-based architectures for service applications.

Conceptual Modeling for Novel Application Domains Manfred A. Jeusfeld 2003-09-29 This book constitutes the refereed joint proceedings of four international workshops held in conjunction with the 22nd International Conference on Conceptual Modelling, ER 2003, held in Chicago, IL, USA in October 2003. The 35 revised full papers presented together with introduction to the four workshops were carefully reviewed and selected from numerous submissions. In accordance with the respective workshops, the papers are organized in topical sections on conceptual modelling approaches for e-business, conceptual modelling quality, agent-oriented information systems, XML data and schema.

Intelligent Agents and Multi-Agent Systems Kazuhiro Kuwabara 2003-08-02 Autonomous agents and multi-agent systems are computational systems in which several (semi-)autonomous agents interact with each other or work together to perform some set of tasks or satisfy some set of goals. These systems may involve computational agents that are homogeneous or heterogeneous, they may involve activities on the part of agents having common or distinct goals, and they may involve participation on the part of humans and intelligent agents. This volume contains selected papers from PRIMA 2002, the 5th Paci?c Rim International Workshop on Multi-Agents, held in Tokyo, Japan, on August 18–19, 2002 in conjunction with the 7th Paci?c Rim International Conference on

Arti?cial Intelligence (PRICAI-02). PRIMA is a series of workshops on - tonomous agents and multi-agent systems, integrating activities in the Asian and Paci?c Rim countries. PRIMA 2002 built on the great success of its pre- cessors, PRIMA'98 in Singapore, PRIMA'99 in Kyoto, Japan, PRIMA 2000 in Melbourne, Australia, and PRIMA 2001 in Taipei, Taiwan. We received 35 submissions to this workshop from 10 countries. Each paper was reviewed by three internationally renowned program committee members. After careful reviews, 15 papers were selected for this volume. We would like to thank all the authors who submitted papers to the workshop. We would also like to thank all the program committee members for their splendid work in reviewing the papers. Finally, we thank the editorial sta? of Springer-Verlag for publishing this volume in the Lecture Notes in Arti?cial Intelligence.

Advanced Intelligent Systems for Sustainable Development (AI2SD'2019) Mostafa Ezziyyani 2020-03-03 This book gathers papers from the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD-2019), held on July 08–11, 2019 in Marrakech, Morocco, which address the environment, industry and economy, and the role of advanced intelligent systems and computing in connection with these three fields. The book includes a host of interesting studies and successful applications regarding the economy and industry, e.g. in Manufacturing, Digital Factories, Smart Supply Chain Management in Industry, Project Management in Industry, Digital Economy, Digital Business, M-commerce, Blockchain and Digital Currencies. In addition, the book highlights work that addresses the environmental aspect, covering topics such as Big Data Analysis & the Internet of Things for Environmental Management, Sensor Networks for Environmental Services, Network Interoperability in Environmental Ecosystems, Wireless Sensors and Cognitive Radio Networks, Environmental Management Computing Systems, Sustainable Mobility Solutions, Remote Sensing Applications, Geo-information & Geophysics. Addressing social, legislative and environmental aspects, the book is intended for all stakeholders in the industrial world. It will be of interest e.g. to customers, helping them improve their profits and economic profitability, and to professionals and fishermen working to evolve and optimize their supply chains, and to improve productivity, in the fiercely competitive I4.0 world. The authors of each chapter report on the state of the art and present the outcomes of their own research, laboratory experiments, and successful applications. The purpose of the book is to combine the idea of advanced intelligent systems with appropriate tools and techniques for modeling, management, and decision support in the fields of the environment, industry and economy.

Proceedings of the Multi-Conference 2011 Himanshu B. Soni 2011-06-06 The International Conference on Signals, Systems and Automation (ICSSA 2011) aims to spread awareness in the research and academic community regarding cutting-edge technological advancements revolutionizing the world. The main emphasis of this conference is on dissemination of information, experience, and research results on the current topics of interest through in-depth discussions and participation of researchers from all over the world. The objective is to

provide a platform to scientists, research scholars, and industrialists for interacting and exchanging ideas in a number of research areas. This will facilitate communication among researchers in different fields of Electronics and Communication Engineering. The International Conference on Intelligent System and Data Processing (ICISD 2011) is organized to address various issues that will foster the creation of intelligent solutions in the future. The primary goal of the conference is to bring together worldwide leading researchers, developers, practitioners, and educators interested in advancing the state of the art in computational intelligence and data processing for exchanging knowledge that encompasses a broad range of disciplines among various distinct communities. Another goal is to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working in India and abroad.

Multiagent System Technologies Jürgen Dix 2010-09-27 This book constitutes the proceedings of the 8th German Conference on Multiagent System Technologies held in Leipzig, Germany, in September 2010.

Proceedings of the International Conference on Advanced Intelligent Systems and Informatics 2016 Aboul Ella Hassanien 2016-10-20 This book gathers the proceedings of the 2nd International Conference on Advanced Intelligent Systems and Informatics (AISI2016), which took place in Cairo, Egypt during October 24–26, 2016. This international interdisciplinary conference, which highlighted essential research and developments in the field of informatics and intelligent systems, was organized by the Scientific Research Group in Egypt (SRGE) and sponsored by the IEEE Computational Intelligence Society (Egypt chapter) and the IEEE Robotics and Automation Society (Egypt Chapter). The book's content is divided into four main sections: Intelligent Language Processing, Intelligent Systems, Intelligent Robotics Systems, and Informatics.

Multi-Agent-Based Simulation IX Nuno David 2009-05-05 This book constitutes the thoroughly refereed postproceedings of the 9th International Workshop on Multi-Agent-based Simulation, MABS 2008, held in Estoril, Portugal, in May 2008. The 16 revised full papers presented have gone through two rounds of reviewing, selection, and improvement and were selected from 44 submissions; they present state-of-the-art research results in agent-based simulation and modeling. The papers are organized in topical sections on simulation of economic behaviour; modelling and simulation of social behaviou; applications; techniques, infrastructure and technologies as well as methods and methodologies.

Coordination Models and Languages Farhad Arbab 2003-08-01 This volume contains the proceedings of the Fifth International Conference on Coordination Models and Languages (Coordination 2002), held in York, UK, 8–11 April 2002. Coordination models and languages close the conceptual gap - tween the cooperation model used by the constituent parts of an application and the lower-level communication model used in its implementation. Coordinati- based methods provide a clean separation between individual software com- nents and their interactions within their overall software organization. This se- ration,

together with the higher-level abstractions o?ered by coordination models and languages, improve software productivity, enhance maintainability, advocate modularity, promote reusability, and lead to software organizations and arc- tectures that are more tractable and more amenable to veri?cation and global analysis. Coordination is relevant in design, development, debugging, maintenance, and reuse of all complex concurrent and distributed systems. Speci?cally, - ordination becomes paramount in the context of open systems, systems with mobile entities, and dynamically re-con?gurable evolving systems. Moreover, - ordination models and languages focus on such key issues in Component Based Software Engineering as speci?cation, interaction, and dynamic composition of components.

Progress in Artificial Intelligence — IBERAMIA 98 Helder Coelho 2003-07-31 When in October 1996 in Cholula (Puebla, Mexico), I took charge of organizing the scienti?c program of the next Ibero-American Congress on Arti?cial Intel- gence (IBERAMIA 98) I bet on a couple of ideas. First, I adopted the spirit of the Portuguese adventurers to get the Sixth Congress on a truly international track. In order to attain this aim I needed to convince everybody that the Ibero- American AI community had improved over the years and attained a very good level in what concerns individuals. Second, I brought my colleagues beside me so that we were able to collect su?cient excellent papers without destroying the pioneering spirit of those who ?rst inaugurated the Congress. Getting together to ?nd out what is in progress in the vast region in which Latin languages (P- tuguese and Spanish) are spoken, attracting others to exchange ideas with us, and by doing this advancing AI in general, is a risky untertaking. This book is the result, and it sets a new standard to be discussed by all of us. IBERAMIA was established in 1988 (Barcelona) by three Ibero-American AI Associations (AEPIA from Spain, SMIA from Mexico, and APPIA from Por- gal), after a ?rst meeting in Morelia (Mexico) in 1986 of SMIA and AEPIA.

Proceedings of the Third International Conference on Intelligent Human Computer Interaction (IHCI 2011), Prague, Czech Republic, August, 2011 Miloš Kudělka 2012-07-17 The Third International Conference on Intelligent Human Computer Interaction 2011 (IHCI 2011) was held at Charles University, Prague, Czech Republic from August 29 - August 31, 2011. This conference was third in the series, following IHCI 2009 and IHCI 2010 held in January at IIIT Allahabad, India. Human computer interaction is a fast growing research area and an attractive subject of interest for both academia and industry. There are many interesting and challenging topics that need to be researched and discussed. This book aims to provide excellent opportunities for the dissemination of interesting new research and discussion about presented topics. It can be useful for researchers working on various aspects of human computer interaction. Topics covered in this book include user interface and interaction, theoretical background and applications of HCI and also data mining and knowledge discovery as a support of HCI applications.

Adaptive Agents and Multi-Agent Systems Eduardo Alonso 2003-08-03 Adaptive

Agents and Multi-Agent Systems is an emerging and exciting interdisciplinary area of research and development involving artificial intelligence, computer science, software engineering, and developmental biology, as well as cognitive and social science. This book surveys the state of the art in this emerging field by drawing together thoroughly selected reviewed papers from two related workshops; as well as papers by leading researchers specifically solicited for this book. The articles are organized into topical sections on - learning, cooperation, and communication - emergence and evolution in multi-agent systems - theoretical foundations of adaptive agents

Multi-Agent Systems and Applications III Czech Republic) Ceemas 200 (2003 Prague 2003-06-02 This book constitutes the refereed proceedings of the International Central and European Conference on Multi-Agent Systems, CEEMAS 2003, held in Prague, Czech Republic in June 2003. The 58 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from 109 submissions. The papers are organized in topical sections on formal methods, social knowledge and meta-reasoning, negotiation, and policies, ontologies and languages, planning, coalitions, evolution and emergent behaviour, platforms, protocols, security, real-time and synchronization, industrial applications, e-business and virtual enterprises, and Web and mobile agents.

PRICAI 2000 Topics in Artificial Intelligence Riichiro Mizoguchi 2007-12-07 PRICAI 2000, held in Melbourne, Australia, is the sixth Pacific Rim Interna tional Conference on Artificial Intelligence and is the successor to the five earlier PRICAIs held in Nagoya (Japan), Seoul (Korea), Beijing (China), Cairns (Aus tralia) and Singapore in the years 1990, 1992, 1994, 1996 and 1998 respectively. PRICAI is the leading conference in the Pacific Rim region for the presenta tion of research in Artificial Intelligence, including its applications to problems of social and economic importance. The objectives of PRICAI are: To provide a forum for the introduction and discussion of new research results, concepts and technologies; To provide practising engineers with exposure to and an evaluation of evolving research, tools and practices; To provide the research community with exposure to the problems of practical applications of AI; and To encourage the exchange of AI technologies and experience within the Pacific Rim countries. PRICAI 2000 is a memorial event in the sense that it is the last one in the 20"" century. It reflects what researchers in this region believe to be promising for their future AI research activities. In fact, some salient features can be seen in the papers accepted. We have 12 papers on agents, while PRICAI 96 and 98 had no more than two or three. This suggests to us one of the directions in which AI research is going in the next century. It is true that agent research provides us with a wide range of research subjects from basic ones to applications.

Agent-Oriented Information Systems Paolo Giorgini 2004-06-16 Thisproceedingsvolumeofthe5thAOISWorkshopisanopportunityforlooking back at ?ve years of organizing AOIS workshops. What did we achieve with the AOIS workshop series? Where were we ?ve years ago, where are we now? Did

ourthemeimpactontheinformationsystems?eldinthewaythatwehadhoped for? AOIS
workshops have taken place in Seattle, Heidelberg, Stockholm, Austin, Montr ´
eal, Interlaken, Toronto, Bologna, Melbourne, and Chicago, always in c-
junction with a major conference on either multiagent systems in arti?cial -
telligence (AI/MAS) or information systems (IS). We have tried to innovate in
holding these workshops as biconference events (each year AOIS held two wo-
shop events, one at an AI/MAS conference and one at an IS conference), as well
as using the AOIS web site as a medium for communication among researchers. So,
certainly, we have reached a wide audience of researchers around the world from
both the AI/MAS and IS communities. But did we also manage to build up a
dedicated AOIS community? Five years ago, we wrote: "Agent concepts could
fundamentally alter the nature of information systems of the future, and how we
build them, much like structured analysis, ER modeling, and Object-Orientation
has precipitated fundamental changes in IS practice. " Of course, a period of
?ve years is too short for evaluating the success or failure of a new scienti?c
paradigm. But still we may observe that while most IS conferences meanwhile
list agents as one of their many preferred topics, agent-orientation is
generally not considered to be a fundamental IS paradigm.

Intelligent Network Management and Control Badr Benmammar 2021-04-13 The
management and control of networks can no longer be envisaged without the
introduction of artificial intelligence at all stages. Intelligent Network
Management and Control deals with topical issues related mainly to intelligent
security of computer networks, deployment of security services in SDN
(software-defined networking), optimization of networks using artificial
intelligence techniques and multi-criteria optimization methods for selecting
networks in a heterogeneous environment. This book also focuses on selecting
cloud computing services, intelligent unloading of calculations in the context
of mobile cloud computing, intelligent resource management in a smart grid-
cloud system for better energy efficiency, new architectures for the Internet
of Vehicles (IoV), the application of artificial intelligence in cognitive
radio networks and intelligent radio input to meet the on-road communication
needs of autonomous vehicles.

Distributed Computing and Artificial Intelligence Sigeru Omatu 2012-03-23 The
International Symposium on Distributed Computing and Artificial Intelligence
2012 (DCAI 2012) is a stimulating and productive forum where the scientific
community can work towards future cooperation in Distributed Computing and
Artificial Intelligence areas. This conference is a forum in which applications
of innovative techniques for solving complex problems will be presented.
Artificial intelligence is changing our society. Its application in distributed
environments, such as the internet, electronic commerce, environment
monitoring, mobile communications, wireless devices, distributed computing, to
mention only a few, is continuously increasing, becoming an element of high
added value with social and economic potential, in industry, quality of life,
and research. These technologies are changing constantly as a result of the
large research and technical effort being undertaken in both universities and
businesses. The exchange of ideas between scientists and technicians from both

the academic and industry sector is essential to facilitate the development of systems that can meet the ever increasing demands of today's society. This edition of DCAI brings together past experience, current work, and promising future trends associated with distributed computing, artificial intelligence and their application in order to provide efficient solutions to real problems. This symposium is organized by the Bioinformatics, Intelligent System and Educational Technology Research Group (http://bisite.usal.es/) of the University of Salamanca. The present edition will be held in Salamanca, Spain, from 28th to 30th March 2012.

Intelligent Agents IV: Agent Theories, Architectures, and Languages Munindar P. Singh 1998-02-18 This carefully edited book constitutes the strictly refereed post-workshop proceedings of the 4th International Workshop on Agent Theories, Architectures, and Languages, ATAL'97, held in Providence, Rhode Island, USA, in July 1997. The 25 revised full papers presented were selected from a total of 76 submissions. The book is divided into sections on methodologies, architectures and infrastructures, coordination planning and monitoring, formal methods, theories, and architectures and methodologies. Like its predecessors published in the Intelligent Agents series, this volume specifically focuses on the relationships between the theory and the applications of agents.

Intelligent Computing Kohei Arai 2018-11-01 This book, gathering the Proceedings of the 2018 Computing Conference, offers a remarkable collection of chapters covering a wide range of topics in intelligent systems, computing and their real-world applications. The Conference attracted a total of 568 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer review process. Of those 568 submissions, 192 submissions (including 14 poster papers) were selected for inclusion in these proceedings. Despite computer science's comparatively brief history as a formal academic discipline, it has made a number of fundamental contributions to science and society—in fact, along with electronics, it is a founding science of the current epoch of human history ('the Information Age') and a main driver of the Information Revolution. The goal of this conference is to provide a platform for researchers to present fundamental contributions, and to be a premier venue for academic and industry practitioners to share new ideas and development experiences. This book collects state of the art chapters on all aspects of Computer Science, from classical to intelligent. It covers both the theory and applications of the latest computer technologies and methodologies. Providing the state of the art in intelligent methods and techniques for solving real-world problems, along with a vision of future research, the book will be interesting and valuable for a broad readership.

Advances in Sustainable and Competitive Manufacturing Systems Américo Azevedo 2013-06-25 The proceedings includes the set of revised papers from the 23rd International Conference on Flexible Automation and Intelligent Manufacturing (FAIM 2013). This conference aims to provide an international forum for the exchange of leading edge scientific knowledge and industrial experience

regarding the development and integration of the various aspects of Flexible Automation and Intelligent Manufacturing Systems covering the complete life-cycle of a company's Products and Processes. Contents will include topics such as: Product, Process and Factory Integrated Design, Manufacturing Technology and Intelligent Systems, Manufacturing Operations Management and Optimization and Manufacturing Networks and MicroFactories.

From Theory to Practice in Multi-Agent Systems Barbara Dunin-Keplicz 2003-08-03 This volume contains the papers selected for presentation at CEEMAS 2001. The wo- shop was the fourth in a series of international conferences devoted to autonomous agents and multi-agent systems organized in Central-Eastern Europe. Its predecessors wereCEEMAS'99andDAIMAS'97,whichtookplaceinSt. Petersburg,Russia,aswell as DIMAS'95, which took place in Cracow, Poland. Organizers of all these events made efforts to make them wide-open to participants from all over the world. This would have been impossible without some help from friendly centers in the Czech Republic, England, France, Japan, and The Netherlands. DIMAS'95 featured papers from 15 countries, while CEEMAS'99 from 18 co- tries. A total of 61 papers were submitted to CEEMAS 2001 from 17 countries. Out of these papers, 31 were selected for regular presentation, while 14 were quali ed as posters. The motto of the meeting was "Diversity is the core of multi-agent systems". This variety of subjects was clearly visible in the CEEMAS 2001 program, addressing the following major areas of multi-agent systems: – Organizations and social aspects of multi-agent systems – Agent and multi-agent system architectures, models, and formalisms – Communication languages, protocols, and negotiation – Applications of multi-agent systems – Agent and multi-agent development tools – Theoretical foundations of DistributedAI – Learning in multi-agent systems The richness of workshop subjects was ensured thanks to the CEEMAS 2001 contributing authors as well as the keynote speakers.

Computer-Aided Design of User Interfaces III Christophe Kolski 2012-12-06 Advances in electronics, communications, and the fast growth of the Internet have made the use of a wide variety of computing devices an every day occurrence. These computing devices have different interaction styles, input/output techniques, modalities, characteristics, and contexts of use. Furthermore, users expect to access their data and run the same application from any of these devices. Two of the problems we encountered in our own work [2] in building VIs for different platforms were the different layout features and screen sizes associated with each platform and device. Dan Ol sen [13], Peter Johnson [9], and Stephen Brewster, et al. [4] all talk about problems in interaction due to the diversity of interactive platforms, devices, network services and applications. They also talk about the problems associ ated with the small screen size of hand-held devices. In comparison to desk top computers, hand-held devices will always suffer from a lack of screen real estate, so new metaphors of interaction have to be devised for such de vices. It is difficult to develop a multi-platform user interface (VI) without duplicating development effort. Developers now face the daunting task to build UIs that must work across multiple devices. There have been some ap proaches

towards solving this problem of multi-platform VI development in cluding XWeb [14]. Building "plastic interfaces" [5,20] is one such method in which the VIs are designed to "withstand variations of context of use while preserving usability".

Multi-Agent-Based Simulation Scott Moss 2003-07-31 This volume is based on papers accepted for the Second International Workshop on Multi-agent-based Simulation (MABS-2000)federated with the Fourth Int- national Conference on Multi Agent Systems (ICMAS-2000)held in Boston in July 2000. The purpose of MABS-2000 was to investigate and develop the synergy - tween software engineering for multi-agent systems and agent-based social s- ulation. The papers included in the MABS-2000 workshop were selected either because they explore how agent interaction can be used to build multi-agent s- tems or they o?er examples of problem-oriented (rather than technique-oriented) systems. No paper was selected if it speci?ed a model or an issue to make it ?t a previously chosen technique. All of the papers in the volume have been reviewed and in many cases revised since the workshop. Two papers (by Edmonds and by Hales)as well as the editorial introduction have been added to those accepted for the workshop. As editors and workshop organisers, we are very grateful to the participants who engaged enthusiastically in the discussions about both individual papers and the issues facing the MABS community. Issues raised and positions taken in those discussions are reported in the editorial introduction. We are also grateful to the authors for their punctuality and the grace with which they received and responded to editorial comments and requests. Klaus Fischer, the ICMAS-2000 workshops chair, was exceptionally patient and diplomatic in reconciling our demands with the resources available.

Computational Collective Intelligence Ngoc Thanh Nguyen 2018-08-27 This two-volume set (LNAI 11055 and LNAI 11056) constitutes the refereed proceedings of the 10th International Conference on Collective Intelligence, ICCCI 2018, held in Bristol, UK, in September 2018 The 98 full papers presented were carefully reviewed and selected from 240 submissions. The conference focuses on knowledge engineering and semantic web, social network analysis, recommendation methods and recommender systems, agents and multi-agent systems, text processing and information retrieval, data mining methods and applications, decision support and control systems, sensor networks and internet of things, as well as computer vision techniques.

Agent Environments for Multi-Agent Systems IV Danny Weyns 2015-11-26 This book constitutes the thoroughly refereed post-workshop proceedings of the 4th International Workshop on Environments for Multiagent Systems, E4MAS 2014 - 10 years later, held in Paris, France, in May 2014 as an associated event of AAMAS 2014, the 13th International Conference on Autonomous Agents and Multiagent Systems. The 6 revised full papers presented together with 1 roadmap paper and 7 invited papers were carefully reviewed and selected from 14 initial submissions. The papers are organized in topical sections on connecting agents, environments, and humans; environments for complex and stigmergic systems; virtual and simulated environments; and open agent environments and

interoperability.

Advances in Agent Communication Frank Dignum 2004-01-13
InthisbookwepresentacollectionofpapersaroundthetopicofAgentCom- nication. The
communication between agents has been one of the major topics of research in
multi-agent systems. The current work can therefore build on a number of
previous workshops, the proceedings of which have been published in earlier
volumes in this series. The basis of this collection is the accepted s-
missions of the workshop on Agent Communication Languages which was held in
conjunction with the AAMAS conference in July 2003 in Melbourne. The workshop
received 15 submissions of which 12 were selected for publication in this
volume. Although the number of submissions was less than expected for an
important area like Agent Communication there is no reason to worry that this
area does not get enough attention from the agent community. First of all, the
12 selected papers are all of high quality. The high acceptance rate is only
due to this high quality and not to the necessity to select a certain number of
papers. Besides the high-quality workshop papers, we noticed that many papers
on Agent Communication found their way to the main conference. We decided
therefore to invite a number of authors to revise and extend their papers from
this conference and to combine them with the workshop papers. We believe that
the current collection comprises a very good and quite complete overview of the
state of the art in this area of research and gives a good indication of the
topics that are of major interest at the moment.

Cooperative Information Agents III Matthias Klusch 2003-07-31 This book
constitutes the refereed proceedings of the Third International Workshop on
Cooperative Information Systems, CIA'99, held in Uppsala, Sweden in July/August
1999. The 16 revised full papers presented were carefully reviewed and selected
from a total of 46 submissions. Also included are ten invited contributions by
leading experts. The volume is divided in sections on information discovery and
management on the Internet; information agents on the Internet-prototypes
systems and applications; communication and collaboration, mobile information
agents; rational information agents for electronic business; service mediation
and negotiation; and adaptive personal assistance.

Approaches to Intelligent Agents Hideyuki Nakashima 2003-07-31 Intelligent
agents will be the necessity of the coming century. Software agents will pilot
us through the vast sea of information, by communicating with other agents. A
group of cooperating agents may accomplish a task which cannot be done by any
subset of them. This volume consists of selected papers from PRIMA'99, the
second Paci c Rim InternationalWorkshop on Multi-Agents, held in Kyoto,Japan,
on Dec- ber 2-3, 1999. PRIMA constitutes a series of workshops on autonomous
agents and mul- agent systems, integrating the activities in Asia and the Pacic
rim countries, such as MACC (Multiagent Systems and Cooperative Computation) in
Japan, and the Australian Workshop on Distributed Arti cial Intelligence. The r
st workshop, PRIMA'98, was held in conjunction with PRICAI'98, in Singapore.
The aim of this workshop is to encourage activities in this e ld, and to bring
togetherresearchersfromAsiaandPacic rimworkingonagentsandmultiagent issues.

Unlike usual conferences, this workshop mainly discusses and explores scienti c and practical problems as raised by the participants. Participation is thus limited to professionals who have made a signi cant contribution to the topics of the workshop. Topics of interest include, but are not limited to: - multi-agent systems and their applications - agent architecture and its applications - languages for describing (multi-)agent systems - standard (multi-)agent problems - challenging research issues in (multi-)agent systems - communication and dialogues - multi-agent learning - other issues on (multi-)agent systems We received 43 submissions to this workshop from more than 10 countries.

Research and Development in Expert Systems XV Roger Miles 2012-12-06 R.G.MILES XHP Consulting Ltd, Gloucester. This book is one of two volumes containing papers for presentation at the British Computer Society Expert Systems 98 conference. This is the annual conference of th the BCS Specialist Group on Expert Systems and is in its 18 year. During its lifetime it has established itself as the premier Expert Systems conference in the UK. The conference is attracting an increasing number of papers world-wide and this year in excess of 70% were from research groups outside the UK. This volume includes all papers accepted for the Technical Stream of Expert Systems 98 and presented at the conference in December 1998. The papers within this stream present innovative, new research work. The companion volume, Applications and Innovations in Expert Systems VI, includes all papers accepted for the application stream of the conference. This stream has become the premier European conference on applications of Expert Systems. The papers accepted for presentation within the Technical Stream cover a broad range of research within Expert Systems and fit into four broad categories: ontological frameworks, knowledge base development, classifiers and neuro-fuzzy systems. The award for best Technical paper has been made to David McSherry, from the University of Ulster, for his paper entitled "Strategic Induction of Decision Trees".

Advanced Intelligent Systems for Sustainable Development (AI2SD'2018) Mostafa Ezziyyani 2019-02-05 This book gathers papers presented at the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD-2018), which was held in Tangiers, Morocco on 12–14 July 2018. Highlighting the latest research and advances in the field of healthcare, it shares essential insights into the health sector, and is intended to stimulate further discussion and promote closer interdisciplinary collaboration among researchers and health professionals.

Les Systèmes multi-agents Jacques Ferber 1997 Premier ouvrage de son genre en France comme à l'étranger, ce livre offre une vision d'ensemble et une mise en perspective des systèmes multi-agents et initie à la problématique de l'intelligence collective. L'informatique sort ici de son cadre conceptuel habituel pour dialoguer avec de nombreuses autres disciplines : sociologie, psychologie cognitive, éthologie, biologie... et collaborer ainsi à l'instauration d'une véritable science de l'interaction, de la coordination et du partage de tâches. Issu d'un cours, cet ouvrage s'adresse aussi bien aux informaticiens, étudiants ou chercheurs, désireux de concevoir des systèmes

informatiques adaptatifs et évolutifs qu'aux non-informaticiens spécialistes des sciences sociales ou de la nature, souhaitant connaître les systèmes multi-agents pour modéliser des comportements naturels et étudier l'émergence de phénomènes complexes. Aucune connaissance préalable n'est requise : l'auteur introduit et définit progressivement les concepts fondamentaux indispensables à la compréhension du sujet, qu'il illustre de nombreux exemples.

Ambient Intelligence - Software and Applications Carlos Ramos 2014-05-16 Ambient Intelligence (AmI) is a recent paradigm emerging from Artificial Intelligence (AI), where computers are used as proactive tools assisting people with their day-to-day activities, making everyone's life more comfortable. Another main concern of AmI originates from the human computer interaction domain and focuses on offering ways to interact with systems in a more natural way by means user friendly interfaces. This field is evolving quickly as can be witnessed by the emerging natural language and gesture based types of interaction. The inclusion of computational power and communication technologies in everyday objects is growing and their embedding into our environments should be as invisible as possible. In order for AmI to be successful, human interaction with computing power and embedded systems in the surroundings should be smooth and happen without people actually noticing it. The only awareness people should have arises from AmI: more safety, comfort and wellbeing, emerging in a natural and inherent way. ISAmI is the International Symposium on Ambient Intelligence and aiming to bring together researchers from various disciplines that constitute the scientific field of Ambient Intelligence to present and discuss the latest results, new ideas, projects and lessons learned, namely in terms of software and applications, and aims to bring together researchers from various disciplines that are interested in all aspects of this area.

Agent-Based Models of Geographical Systems Alison J. Heppenstall 2011-11-24 This unique book brings together a comprehensive set of papers on the background, theory, technical issues and applications of agent-based modelling (ABM) within geographical systems. This collection of papers is an invaluable reference point for the experienced agent-based modeller as well those new to the area. Specific geographical issues such as handling scale and space are dealt with as well as practical advice from leading experts about designing and creating ABMs, handling complexity, visualising and validating model outputs. With contributions from many of the world's leading research institutions, the latest applied research (micro and macro applications) from around the globe exemplify what can be achieved in geographical context. This book is relevant to researchers, postgraduate and advanced undergraduate students, and professionals in the areas of quantitative geography, spatial analysis, spatial modelling, social simulation modelling and geographical information sciences.

Innovations in Smart Cities Applications Edition 3 Mohamed Ben Ahmed 2020-02-04 This book highlights original research and recent advances in various fields related to smart cities and their applications. It gathers papers presented at the Fourth International Conference on Smart City Applications (SCA19), held on

October 2–4, 2019, in Casablanca, Morocco. Bringing together contributions by prominent researchers from around the globe, the book offers an invaluable instructional and research tool for courses on computer science, electrical engineering, and urban sciences. It is also an excellent reference guide for professionals, researchers, and academics in the field of smart cities. This book covers topics including: • Smart Citizenship • Smart Education • Digital Business and Smart Governance • Smart Health Care • New Generation of Networks and Systems for Smart Cities • Smart Grids and Electrical Engineering • Smart Mobility • Smart Security • Sustainable Building • Sustainable Environment

Autonomous Robots Research Advances Weihua Yang 2008 Autonomous robots are robots which can perform desired tasks in unstructured environments without continuous human guidance. Many kinds of robots have some degree of autonomy. Different robots can be autonomous in different ways. A high degree of autonomy is particularly desirable in fields such as space exploration, where communication delays and interruptions are unavoidable. Some modern factory robots are "autonomous" within the strict confines of their direct environment. The exact orientation and position of the next object of work and (in the more advanced factories) even the type of object and the required task must be determined. This can vary unpredictably (at least from the robot's point of view). One important area of robotics research is to enable the robot to cope with its environment whether this be on land, underwater, in the air, underground, or in space. This book presents the latest research from around the globe.

Ingénierie du transport et des services de mobilité avancés HAMMADI Slim 2012-06-07 Le choix du mode de déplacement (voiture privée, transport en commun, vélo, marche) est souvent contraint par son accessibilité, son coût ou la qualité du service proposé. Or, à ce jour, la voiture reste le moyen de transport privilégié. Dans le cadre de la mobilité durable, le rôle de l'information des voyageurs devient crucial. Il est nécessaire de promouvoir l'utilisation rationnelle et pertinente du meilleur mode de transport pour un déplacement donné. Cette information multimodale, qui met en avant l'offre de mobilité sur un territoire donné, fait souvent défaut ou est difficilement disponible. Des projets ont ainsi été initiés qui, à l'instar du CISIT en Nord Pas de Calais, tentent de concrétiser des idées novatrices alliant l'intelligence aux transports. Ingénierie du transport et des services de mobilité avancés présente un état de l'art de l'ensemble des techniques, approches et méthodes pour la spécification, la conception, l'optimisation et la mise en oeuvre des services de mobilité avancés.

Multi-Agent-Based Simulation III David Hales 2003-12-03 This volume presents revised versions of the papers presented at the 4th International Workshop on Multi-agent Based Simulation (MABS 2003), a workshop federated with the2ndInternationalJointConferenceonAutonomousAgentsandMulti-agentSystems (AAMAS 2003), which was held in Melbourne, Australia, in July 2003. In addition to the papers presented at the workshop, three additional papers have been included in this volume (Robertson, Noto et al., and Marietto et al.).

Multiagent Based Simulation (MABS) is a vibrant interdisciplinary area which brings together researchers active within the agent-based social simulation community (ABSS) and the multiagent systems community (MAS). These two communities have different, indeed somewhat divergent, goals. The focus of ABSS is on simulating and synthesizing social behaviors in order to understand observed social systems (human, animal and even electronic) via the development and testing of new models and c- cepts. MAS focuses instead on the solution of hard engineering problems related to the construction, deployment and ef?cient operation of multiagent-based systems.

A Perspective on Agent Systems Krzysztof Cetnarowicz 2014-12-27 This monograph presents the concept of agents and agent systems. It starts with a formal approach and then presents examples of practical applications. In order to form the principles of construction of autonomous agents, a model of the agent is introduced. Subsequent parts of the monograph include several examples of applications of the term agent. Descriptions of different examples of applications of agent systems in such fields as evolution systems, mobile robot systems, artificial intelligence systems are given. The book constitutes an outline of methodology of the design and realization of agent systems based on the M-agent architecture oriented on different areas of applications.

Advances in Networked Enterprises Luis M. Camarinha-Matos 2013-06-05 New market trends and the emergence of the so-called Internet-based `new economy' are leading companies to new forms of organization, mostly relying on privileged cooperation links. Nowadays, most manufacturing processes are not carried out by single enterprises. Rather, organizations feel the need to focus on their core competencies and join efforts with others, in order to fulfill the requirements of new products/services demanded by the global market. In a cooperative networked organization, every enterprise is just a node that adds some value to the process; namely, a step in the manufacturing/supply chain. Furthermore, manufacturing companies increasingly encompass what has typically been regarded as the domain of the service sector. They try to establish long-term relationships with their customers, in order to service their needs around a manufactured product. For these reasons, the area of virtual organizations and industrial virtual enterprises is attracting growing interest in terms of research and development, and implementation approaches for new business practices. The main emphasis of this book is on virtual enterprises and other networked organizations, with special focus on: supporting infrastructures and management of distributed business processes, intelligent multi-agent systems, knowledge management, human interfaces, and socio-economical aspects. Also included in the book are related topics on automation, both in manufacturing and transportation. Special attention is assigned to the fact that advances in information technology and new organizational paradigms will be used not only to induce new economic structures, but also to help a sustainable migration of existing systems towards the new economy. When electronic business initiatives attract such widespread attention, it is important to conciliate the `old' and `new' economies under a balanced perspective. Advances in Networked Enterprises is essential reading for researchers and engineering students in production

engineering, computer science, electrical engineering, mechanical engineering, industrial sociology, and transportation, as well as for engineers and practitioners in manufacturing and transportation systems organization and planning.

Companion Modeling and Multi-agent Systems for Integrated Natural Resource Management in Asia François Bousquet 2005