Read Online Applications And Foundations Agents Software Intelligent

Thank you very much for downloading **Applications And Foundations Agents Software Intelligent**.Most likely you have knowledge that, people have look numerous times for their favorite books in the manner of this Applications And Foundations Agents Software Intelligent, but end happening in harmful downloads.

Rather than enjoying a good book subsequent to a mug of coffee in the afternoon, then again they juggled subsequently some harmful virus inside their computer. **Applications And Foundations Agents Software Intelligent** is to hand in our digital library an online permission to it is set as public suitably you can download it instantly. Our digital library saves in compound countries, allowing you to get the most less latency time to download any of our books with this one. Merely said, the Applications And Foundations Agents Software Intelligent is universally compatible later any devices to read.

KEY=SOFTWARE - DANIKA BRADSHAW

Intelligent Software Agents

Foundations and Applications

Springer Science & Business Media *2 chapter contains examples of intelligent agents, arranged according to their appli cation areas. Chapter 7 closes with a prospective view of the future development of intelligent agents. Everyone concerned with the Internet and the new possibilities of information and communication technology knows that nowadays there is no area that is devel oping faster. The authors are aware of the dynamics of this research area and its effects when they describe such a fast developing area in a slow, traditional me dium like a book. One thing is sure today: when the book appears on the market, new intelligent agents will already exist and some of the hypotheses made by this book will have been shown to be incorrect. Why, despite this, does it make sense to write a classical book on this subject? Is there an alternative? Experience shows that the majority of the people in business and public*

life who make decisions on the use of new technologies continue to prefer books and articles in periodicals rather than electronic sources such as the Internet. Or is there some other reason for the enormous success of Nicolas Negroponte's book Being Digital, which we thank for multimedia and many concepts of the digital and networked world, and even intelligent agents? Today, a book is still the only way to establish a new area.

Agent Technology

Foundations, Applications, and Markets

Springer Science & Business Media *Agents are autonomous problem-solving software programs that are able to perform tasks in complex, dynamic environments, without receiving permanent guidance from the user. This is the first book on agents geared towards a wide audience of both agent developers and software developers. Written by the leading authorities in the field, the book introduces the technical foundations and reviews how agents are being -- and will be -- used on a daily basis.*

Software Agent-Based Applications, Platforms and Development Kits

Springer Science & Business Media *This book introduces major agent platforms, frameworks, systems, tools, and applications. Each system is described by their developers in sufficient detail so that the reader can get a good understanding of the architecture, functionality, and application areas of the system. All systems are running systems. One main focus of the book lies on agent platforms and toolkits.*

Foundations and Applications of Multi-Agent Systems

UKMAS Workshop 1996-2000, Selected Papers

Springer This book presents revised full versions of papers contributed to UK Workshops on Multi-Agent Systems, UKMAS, during 1996 and 2000. From the early days of MAS research, the UK community has been a particularly productive one with numerous key contributions. The 15 papers by internationally reputed researchers deal with various aspects of agent technology, with a certain emphasis on foundational issues in multi-agent systems.

Agent Technology

Foundations, Applications, and Markets

Springer Science & Business Media The first book to provide an integrative presentation of the issues, challenges and success of designing, building and using agent applications. The chapters presented are written by internationally leading authorities in the field, with a general audience in mind. The result is a unique overview of agent technology applications, ranging from an introduction to the technical foundations to reports on dealing with specific agent systems in practice.

Database and Expert Systems Applications

10th International Conference, DEXA'99, Florence, Italy, August 30 - September 3, 1999, Proceedings

Springer Science & Business Media The Database and Expert Systems Applications (DEXA) conferences bring together researchers and practitioners from all over the world to exchange ideas, experiences and opinions in a friendly and stimulating environment. The papers are at once a record of what has been achieved and the first steps towards shaping the future of information systems. DEXA covers a broad field, and all aspects of database, knowledge base and related technologies and their applications are represented. Once again there were a good number of submissions: 241 papers were submitted and of these the programme committee selected

103 to be presented. DEXA'99 took place in Florence and was the tenth conference in the series, following events in Vienna, Berlin, Valencia, Prague, Athens, London, Zurich, Toulouse and Vienna. The decade has seen many developments in the areas covered by DEXA, developments in which DEXA has played its part. I would like to express thanks to all the institutions which have actively supported and made possible this conference, namely: • University of Florence, Italy • IDG CNR, Italy • FAW – University of Linz, Austria • Austrian Computer Society • DEXA Association In addition, we must thank all the people who have contributed their time and effort to make the conference possible. Special thanks go to Maria Schweikert (Technical University of Vienna), M. Neubauer and G. Wagner (FAW, University of Linz). We must also thank all the members of the programme committee, whose careful reviews are important to the quality of the conference.

Adaptive Computing in Design and Manufacture V

<u>Springer Science & Business Media</u> *The Adaptive Computing in Design and Manufacture Conference series is now in its tenth year and has become a well-established, application-oriented meeting recognised by several UK Engineering Institutions and the International Society of Genetic and Evolutionary Computing. The main theme of the conference again relates to the integration of evolutionary and adaptive computing technologies with design and manufacturing processes whilst also taking into account complementary advanced computing technologies. Evolutionary and adaptive computing techniques continue to increase their penetration of industrial and commercial practice as their powerful search, exploration and optimisation capabilities become ever more apparent. The last two years have seen a very significant increase in the development of commercial software tools utilising adaptive computing technologies and the emergence of related commercial research and consultancy organisations supporting the introduction of best practice in terms of industrial utilisation. Adaptive Computing in Design and Manufacture V is comprised of selected papers that cover a diverse set of industrial application areas including: engineering design and design environments, manufacturing process design, scheduling and control, electronic circuit design, fault detection. Various aspects of search and optimisation such as multi-objective and constrained optimisation are also investigated in the context of integration with industrial processes. In addition to evolutionary computing techniques, both neural-net and agent-based technologies play a role in a number of contributions. This collection of papers will be of particular interest to both industrial researchers and practitioners in addition to the academic research communities of engineering, operational research and computer science.*

Advanced Intelligent Computing Theories and Applications - With Aspects of Theoretical and Methodological Issues

Third International Conference on Intelligent Computing, ICIC 2007 Qingdao, China, August 21-24, 2007 Proceedings

Springer *This volume, in conjunction with the two volumes CICS 0002 and LNAI 4682, constitutes the refereed proceedings of the Third International Conference on Intelligent Computing held in Qingdao, China, in August 2007. The 139 full papers published here were carefully reviewed and selected from among 2,875 submissions. Collectively, these papers represent some of the most important findings and insights into the field of intelligent computing.*

Measuring the Performance and Intelligence of Systems

Proceedings of the 2000 PerMIS Workshop, August

14-16, 2000

Software Agents, Agent Systems and Their Applications

Ios PressInc *Seen by many as the next revolution in software development for large, complex, distributed systems, agent systems represent one of the more exciting research areas in computer science. With the development of powerful personal devices, the vision of a personal agent now seems increasingly appealing too. It can even be claimed that intelligent software agents will eventually become an essential part of Web 4.0. Software agents are finding their way into areas such as environmental security, climate change, seismic safety, epidemic prevention, detection and response, computer emergency response and human and societal dynamics. Because these are of direct interest to the NATO Science for Peace and Security Program, a NATO Advanced Study Institute (ASI) dealing with the subject was held in Tangier, Morocco, in September 2010. This book presents the content of that ASI. This book is divided into three sections: Foundations, Applications and Student Papers. Subjects covered include agent system modeling, system design and experimentation, sensor networks, disaster management, ehealth and medical emergencies, management of UAVs and agents in the grid. Agent systems security and the application of agents in network security are also addressed and the final section includes participant presentations. The book has been designed to be usable as a textbook - for example, in a graduate course covering software agents, agent systems and their applications - and will be of interest to all those involved in related fields*

Multi-Agent Systems and Applications

9th ECCAI Advanced Course ACAI 2001 and Agent Link's 3rd European Agent Systems Summer School, EASSS

2001, Prague, Czech Republic, July 2-13, 2001. Selected Tutorial Papers

Springer *The Advanced Course on Artificial Intelligence ACAI 2001 with the subtitle M ulti- Agent Systems and Their Applications , held in Prague, Czech Republic, was a joint event of ECCAI (the European Coordinating Committee for Artificial Intelligence) and AgentLink, the European Network of Excellence for Agent-Based Computing. Whereas ECCAI organizes two-week ACAI courses on different topics every second year, AgentLink s European Agent Systems Summer School (EASSS) has been an annual event since 1999. This year, both of these important events were merged together, giving weight to the fact that multi-agent systems currently represent one of the hottest topics in AI research. The name, ACAI 2001 Summer School, is intended to emphasize that this event continues the tradition of regular ECCAI activities (ACAI), as well as the EASSS summer schools of AgentLink. The Prague ACAI Summer School was proposed and initiated by both the Gerstner Laboratory, Czech Technical University, Prague (GL-CTU) and the Czech Society for Cybernetics and Informatics (CSKI), with the support of the Austrian Research Institute for Artificial Intelligence in Vienna (OFAI). Part of our motivation was catalyzed by experience gained in 1992 during the International Summer School Advanced Topics in Artificial Intelligence (see Springer s LNAI vol. 617) which was organized by the same Czech and Austrian bodies. One of the most important stimulating factors behind the organization of ACAI 2001 was the support provided by the European Commission to the Gerstner Laboratory within the frame of the MIRACLE Center of Excellence project (IST No.*

Maps and the Internet

Elsevier *This book examines a new trend affecting cartography and geographic information science. Presenting the work of over 30 authors from 16 different countries, the book provides an overview of current research in the new area of Internet Cartography. Chapters deal with the growth of this form of map distribution, uses in education, privacy issues, and technical aspects from the point of view of the map provider - including Internet protocols such as XML and SVG. Many see the Internet as a revolution for cartography. Previously tied to the medium of paper and expensive large-format color print technology, maps had a limited distribution and use. The Internet made it possible to not only distribute maps to a much larger audience but also to incorporate interaction and animation in the display. Maps have also become timelier with some maps of traffic and weather being updated every few minutes. In addition, it is now possible to access maps from servers throughout the world. Finally, the Internet has made historic maps available for viewing*

to the public that were previously only available in map libraries with limited access.

Agent-Based Tutoring Systems by Cognitive and Affective Modeling

<u>IGI Global</u> *"This book presents a modern view of intelligent tutoring, focusing mainly on the conception of these systems according to a multi-agent approach and on the affective and cognitive modeling of the student in this kind of educational environment"--Provided by publisher.*

Distributed Computing and Artificial Intelligence

7th International Symposium

<u>Springer Science & Business Media</u> *The International Symposium on Distributed Computing and Artificial Intel- gence (DCAI´10) is an annual forum that brings together past experience, current work and promising future trends associated with distributed computing, artificial intelligence and their application to provide efficient solutions to real problems. This symposium is organized by the Biomedicine, Intelligent System and Edu- tional Technology Research Group (http://bisite. usal. es/) of the University of - lamanca. The present edition has been held at the Polytechnic University of - lencia, from 7 to 10 September 2010, within the Congreso Español de Informática (CEDI 2010). Technology transfer in this field is still a challenge, with a large gap between academic research and industrial products. This edition of DCAI aims at contributing to reduce this gap, with a stimulating and productive forum where these communities can work towards future cooperation with social and econo- cal benefits. This conference is the forum in which to present application of in- vative techniques to complex problems. Artificial intelligence is changing our - ciety. Its application in distributed environments, such as internet, electronic commerce, environment monitoring, mobile communications, wireless devices, distributed computing, to cite some, is continuously increasing, becoming an e- ment of high added value with social and economic potential, both industry, life quality and research. These technologies are changing constantly as a result of the large research and technical effort being undertaken in universities, companies.*

Software Engineering for Large-Scale Multi-Agent Systems

Research Issues and Practical Applications

Springer *Nowadays, engineering large-scale software systems means dealing with complex systems composed of pervasive software components that move around and adapt to nondeterministic and open environments, like the Internet, in order to achieve systems design goals through the coordination of autonomously distributed services. The agent metaphor, in particular software agents and multi-agent systems (MAS), constitutes a promising approach for covering most of the software development life cycle, from conceptual modeling and requirements specification to architectural definition, design, and implementation. This book presents 17 carefully reviewed papers arranged in order to provide a coherent survey of how to exploit agent properties and MAS issues in today's software systems. The book offers the following topical sections: - software engineering foundations - requirements engineering and software architecture - coordination and mobility - reuse -dependability -empirical studies and applications*

Applications of Software Agent Technology in the Health Care Domain

Birkhäuser *This volume contains a collection of papers that provides a unique, novel and up-to-date overview of how software agents technology is being applied in very diverse problems in health care, ranging from community care to management of organ transplants. It also provides an introductory survey that highlights the main issues to be taken into account when deploying agents in the health care area. The intended audience includes graduate and postgraduate students specializing in artificial intelligence and researchers interested in the application of new technologies.*

Multi-Agent Systems and Applications

9th ECCAI Advanced Course ACAI 2001 and Agent Link's 3rd European Agent Systems Summer School, EASSS 2001, Prague, Czech Republic, July 2-13, 2001. Selected Tutorial Papers

Springer Science & Business Media *This book presents selected tutorial lectures given at the summer school on Multi-Agent Systems and Their Applications held in Prague, Czech Republic, in July 2001 under the sponsorship of ECCAI and Agent Link. The 20 lectures by leading researchers in the field presented in the book give a competent state-of-the-art account of research and development in the field of multi-agent systems and advanced applications. The book offers parts on foundations of MAS; social behaviour, meta-reasoning, and learning; and applications.*

Multiagent based Supply Chain Management

Springer Science & Business Media *This book takes a close look at recent progress in the field of supply chain management using agent technology and more specifically multiagent systems. Sixteen chapters are organized in four main parts: Introductory Papers; Multiagent Based Supply Chain Modeling; Collaboration and Coordination Between Agents in a Supply Chain; and Multiagent Based Supply Chain Management: Applications. The result is a comprehensive review of existing literature, and ideas for future research.*

Quality Assurance of Agent-Based and Self-Managed Systems

<u>CRC Press</u> *The challenges in implementing intelligent and autonomous software systems remain the development of self-adapting systems, self-healing applications, corporate global creation, and collaborated robotic teams. With software agent technology widely recognized as a key approach in implementing such global infrastructure, the importance of the role of quality assurance of agent-based systems and system development is growing daily. Based on the authors' more than fifteen years of experience in software agent technology, Quality of Agent-Based and Self-Managed Systems presents the basics principles and structures of agent technology. It covers the main quality issues of software system development and provides examples of agent measurement and evaluation. The authors focus on software agent systems and multi-agent systems (MAS) and discuss the determination of quality properties. They also explain different techniques and approaches to evaluate the development of MAS. The final chapter summarizes quality assurance approaches for agent-based systems and discusses some open problems and future directions. Although often complex and difficult to manage, the applications for software agent systems in essential life systems increase every day. Since the quality of the agent-based self-managing systems is a central point of software risks, analyzing, evaluating, and improving the quality measurement situation will always be a concern when developing these systems. With more than sixty illustrations and twenty tables, this book builds a foundation in quality and quality control for agent-based technology.*

Software Agents for Future Communication Systems

.

<u>Springer Science & Business Media</u> *Agent technology has recently become one of the most vibrant and fastest growing areas in information technology. This is the first systematic introduction to software agents with the goal of exploiting them in future communication systems. The coherently written chapters provide complementary coverage of the relevant issues. Multi-agent systems and mobile agent approaches are presented and applied to important topics in future communication systems.*

Semantic Agent Systems

Foundations and Applications

Springer Science & Business Media *Semantic agent systems are about the integration of the semantic Web, software agents, and multi-agent systems technologies. Like in the past (e.g. biology and informatics yielding bioinformatics) a whole new perspective is emerging with semantic agent systems. In this context, the semantic Web is a Web of semantically linked data which aims to enable man and machine to execute tasks in tandem. Here, software agents in a multi-agent system as delegates of humans are endowed with power to use semantically linked data. This edited book "Semantic Agent Systems: Foundations and Applications" proposes contributions on a wide range of topics on foundations and applications written by a selection of international experts. It first introduces in an accessible style the nature of semantic agent systems. Then it explores with numerous illustrations new frontiers in software agent technology. "Semantic Agent Systems: Foundations and Applications" is recommended for scientists, experts, researchers, and learners in the field of artificial intelligence, the semantic Web, software agents, and multi-agent systems technologies.*

Fuzzy-Neuro Approach to Agent Applications

From the AI Perspective to Modern Ontology

Springer Science & Business Media *Complete course on Intelligent Agent or AI with focus on contemporary and latest AI technologies and development Companion technical reference for agent developers/researchers who would like to adopt the iJADK toolkit to develop their own agent-based applications and projects The advanced section on modern ontology and ontological agents serves as research literature for AI researchers who would like to explore the advanced AI/agent topics that involve the contemporary research on ontological agents and applied ontology*

Knowledge-based Software Engineering

Proceedings of the Seventh Joint Conference on Knowledge-based Software Engineering

IOS Press *"This publication addresses the research in theoretical foundations, practical techniques, software tools, applications and / or practical experiences in knowledge-based software engineering. The book also includes a new field: research in web services and semantic web. This is a rapidly developing research area promising to give excellent practical outcome, and interesting for theoretically minded as well as for practically minded people. The largest part of the papers belongs to a traditional area of applications of artificial intelligence methods to various software engineering problems. Another traditional section is application of intelligent agents in software engineering. A separate section is devoted to interesting applications and special techniques related in one or another way to the topic of the conference."*

Computation for Humanity

Information Technology to Advance Society

CRC Press *The exponential progress and accessibility of computing has vastly increased data flows and revolutionized the practice of science, engineering, and communication. Computing plays a critical role in advancing research across almost every scientific discipline. Computation for Humanity: Information Technology to Advance Society is a guide for the creation of services, products, and tools that facilitate, support, and enhance progress of humanity toward more sustainable life. This book: Provides a deep understanding of the practical applications of computation to solve human-machine problems Delivers insight into theoretical approaches in an accessible manner Provides a comprehensive overview of computational science and engineering applications in selected disciplines Crosses the boundaries between different domains and shows how they interrelate and complement one another Focuses on grand challenges and issues that matter for the future of humanity Shows different perspectives of computational*

thinking, understanding, and reasoning Provides a basis for scientific discoveries and enables adopting scientific theories and engineering practices from other disciplines Takes a step back to provide a human-related abstraction level that is not ultimately seen in pure technological elaborations/collections The editors provide a collection of numerous computation-related projects that form a foundation from which to cross-pollinate between different disciplines and further extensive collaboration. They present a clear and profound understanding of computing in today's world, and provide fundamental solutions to some of the most pertinent humanity-related problems.

Cooperative Agents

Applications in the Social Sciences

Springer Science & Business Media *Agent-based modelling on a computer appears to have a special role to play in the development of social science. It offers a means of discovering general and applicable social theory, and grounding it in precise assumptions and derivations, whilst addressing those elements of individual cognition that are central to human society. However, there are important questions to be asked and difficulties to overcome in achieving this potential. What differentiates agent-based modelling from traditional computer modelling? Which model types should be used under which circumstances? If it is appropriate to use a complex model, how can it be validated? Is social simulation research to adopt a realist epistemology, or can it operate within a social constructionist framework? What are the sociological concepts of norms and norm processing that could either be used for planned implementation or for identifying equivalents of social norms among co-operative agents? Can sustainability be achieved more easily in a hierarchical agent society than in a society of isolated agents? What examples are there of hybrid forms of interaction between humans and artificial agents? These are some of the sociological questions that are addressed.*

Software Applications: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

<u>IGI Global</u> *Includes articles in topic areas such as autonomic computing, operating system architectures, and open source software technologies and applications.*

Intelligent Agents for the Digital Battlefield

In this report we describe some of the theoretical and practical underpinnings of a joint University of Maryland/Army Research Laboratory Project to develop a scalable architecture for supporting intelligent agent applications. The main focus of our long term research is threefold: (1) to develop the theoretical foundations of intelligent agent systems, (2) to concurrently build prototype implementations of such agent based systems, and (3) to concurrently develop applications in the area of situation awareness and assessment using the proposed agent architecture and implementation. A specific outcome of our long term research will be the development of a collaborative agent technology system, CATS, that will provide the underlying software infrastructure needed to build large, heterogeneous, distributed agent applications. CATS will provide a software environment through which multiple intelligent agents may interact with other agents, both human and computational. In addition, CATS will contain a number of intelligent agent components that will be useful for a wide variety of applications.

Agent-Oriented Software Engineering IV

4th International Workshop, AOSE 2003, Melbourne, Australia, July 15, 2003, Revised Papers

<u>Springer Science & Business Media</u> *This book assesses the state of the art of agent-based approaches as a software engineering paradigm. The 15 revised full papers presented together with an invited article were carefully selected from 43 submissions during two rounds of reviewing and improvement for the 4th International Workshop on Agent-Oriented Software Engineering, AOSE 2003, held in Melbourne, Australia, in July during AAMAS 2003. The papers address all current issues in the field of software agents and*

multi-agent systems relevant for software engineering; they are organized in topical sections on - modeling agents and multi-agent systems -methodologies and tools - patterns, architectures, and reuse - roles and organizations.

Objects, Agents, and Features

International Seminar, Dagstuhl Castle, Germany, February 16-21, 2003, Revised and Invited Papers

Springer Science & Business Media *This book is the outcome of an international research seminar on objects, agents, and features held at Dagstuhl Castle, Germany in February 2003. In recent years, concepts in object-oriented modeling and programming have been extended in variuos directions, giving rise to new paradigms such as agent-orientation and feature orientation. This book explores the relationship between the original paradigm and the two new ones. The 12 revised full papers presented together with an introductery overview by the volume editors were carefully reviewed and improved for publication. Among the topics addressed are agent coordination in object-orientation, feature orientation, components and feature interaction, software evolution, agent modeling and analysis, agent interaction, component-based systems, formal specification of agents, and feature engineering.*

Knowledge Processing and Decision Making in Agent-Based Systems

Springer Science & Business Media *Knowledge processing and decision making in agent-based systems constitute the key components of intelligent machines. The contributions included in the book are: Innovations in Knowledge Processing and Decision Making in Agent-Based Systems Towards Real-World HTN Planning Agents Mobile Agent-Based System for Distributed Software Maintenance Software Agents in New Generation Networks: Towards the Automation of Telecom Processes Multi-agent Systems and Paraconsistent Knowledge An Agent-based Negotiation Platform for Collaborative Decision-Making in Construction Supply Chain An Event-Driven Algorithm for Agents at the Web A Generic Mobile Agent Framework Toward Ambient Intelligence Developing Actionable Trading Strategies Agent Uncertainty Model and Quantum Mechanics Representation Agent Transportation Layer Adaptation System*

Software Agents to Enable Service Composition through Negotiation Advanced Technology Towards Developing Decentralized Autonomous Flexible Manufacturing Systems

Pervasive Computing

Innovations in Intelligent Multimedia and Applications

<u>Springer Science & Business Media</u> *The main objective of pervasive computing systems is to create environments where computers become invisible by being seamlessly integrated and connected into our everyday environment, where such embedded computers can then provide inf- mation and exercise intelligent control when needed, but without being obtrusive. Pervasive computing and intelligent multimedia technologies are becoming incre- ingly important to the modern way of living. However, many of their potential applications have not yet been fully realized. Intelligent multimedia allows dynamic selection, composition and presentation of the most appropriate multimedia content based on user preferences. A variety of applications of pervasive computing and - telligent multimedia are being developed for all walks of personal and business life. Pervasive computing (often synonymously called ubiquitous computing, palpable computing or ambient intelligence) is an emerging ?eld of research that brings in revolutionary paradigms for computing models in the 21st century. Pervasive c- puting is the trend towards increasingly ubiquitous connected computing devices in the environment, a trend being brought about by a convergence of advanced el- tronic – and particularly, wireless – technologies and the Internet. Recent advances in pervasive computers, networks, telecommunications and information technology, along with the proliferation of multimedia mobile devices – such as laptops, iPods, personal digital assistants (PDAs) and cellular telephones – have further stimulated the development of intelligent pervasive multimedia applications. These key te- nologiesarecreatingamultimediarevolutionthatwillhavesigni?cantimpactacross a wide spectrum of consumer, business, healthcare and governmental domains.*

Intelligent Agents in the Evolution of Web and

Applications

Springer *Intelligent agents have revolutionised the way we do business, we teach, we learn, design systems, and so on. Agent applications are increasingly being developed in - mains as diverse as meteorology, manufacturing, war gaming, UAV mission mana-ment and the evolution of Web [1]. The Web has also has the same effect on our daily life as the intelligent agents. We use Web for information search, shopping, news, communication and so on. We wonder how we lived without Web in the past [2]. The book presents a sample of some of the most innovative research on the use of intelligent agents in the evolution of Web. There are thirteen chapters in the book. Chapters are on theoretical foundations as well as practical applications. We are grateful to the contributors and reviewers for their contribution. We believe that the research reported in the book will encourage researchers to develop the robust human-like intelligent machines for the service of humans. We sincerely thank Springer-Verlag for their editorial support during the prepa- tion of the manuscript. The editors appreciate the resources provided by Wroclaw University of Technology and the University of South Australia to edit this volume.*

Knowledge-Based Intelligent Information and Engineering Systems

10th International Conference, KES 2006, Bournemouth, UK, October 9-11 2006, Proceedings, Part II

Springer *The three volume set LNAI 4251, LNAI 4252, and LNAI 4253 constitutes the refereed proceedings of the 10th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES 2006, held in Bournemouth, UK, in October 2006. The 480 revised papers presented were carefully reviewed and selected from about 1400 submissions. The papers present a wealth of original research results from the field of intelligent information processing.*

Encyclopedia of Artificial Intelligence

IGI Global "*This book is a comprehensive and in-depth reference to the most recent developments in the field covering theoretical developments, techniques, technologies, among others"--Provided by publisher.*

e-Business in Construction

John Wiley & Sons *With a number of disparate, often geographically distributed,organisations involved in the delivery of construction projects,there has been considerable interest in e-business tools within theconstruction industry. These tools open up a range of possibilitiesfor the industry to rethink existing processes and working methods,so their use is increasingly common. Nevertheless, there has beenlittle definitive guidance for practitioners, researchers andstudents on the major issues in electronic business from aconstruction perspective. By bringing together 16 contributions from research and industrycovering theory, technological issues, practical implementation andlegal matters, and illustrated with a number of case studies,e-Business in Construction fills that gap. Starting with thetheoretical aspects of e-commerce and moving on to consider thespecifics of the construction context, it includes a mechanism forthe assessment of the e-readiness of construction sectororganisations. The middle part of the book focuses on the role ofvarious technologies in e-business, with examples included asappropriate. This is followed by a discussion of practical, legaland trust issues. The potential of next generation of informationand communication technologies is also addressed. With a fine blend of theoretical and practical aspects ofe-commerce in construction, and well illustrated with a number ofindustrial case studies, e-Business in Construction will find anappreciative audience of construction practitioners, researchersand students at all levels.*

Artificial Intelligence

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

Agent Supported Cooperative Work

Springer Science & Business Media *Improvements in computer networking have heralded great expectations for computer-mediated distributed work. However, experience has revealed that, as information flow improves, a central problem for distributed workers is the administration, management and control of that information. Research into Computer Supported Cooperative Work (CSCW) investigates design methods and technologies for the support of collaboration, communication and coordination of distributed group work, both within and among organizations. In tandem with this focus on the support of distributed communication and collaboration, there have been exciting developments in the fields of Intelligent Agents and Distributed Artificial Intelligence (DAI), notably in the concepts, theories and deployment of intelligent agents as a means of distributing computer-based problem solving expertise. The paradigm of multi-agent systems forms a proposed basis for the design of CSCW architectures, the support of CSCW operations and for addressing some of the problems of cooperative working. The application of a multi-agent approach to CSCW makes information exchange among the participants easier by delivering support to the participants, assisting workflows and procedures, and providing convenient user interfaces to CSCW systems. Furthermore, the ideas inherent in such an approach are also applicable to other domains, such as support for interactive learning. Organizations that seek to exploit the advantages offered through CSCW will benefit from the integration of agents in the management and use of their corporate knowledge, especially with the advancement of wired or wireless networking, pervasive computing, and other information technologies. Agent Supported Cooperative Work describes the state of the art in this exciting new area, covering both theoretical foundations and practical applications of ASCW. It is the first book explicitly dedicated to ASCW, bringing together contributions from international experts in the field.*

Establishing the Foundation of Collaborative Networks

IFIP TC 5 Working Group 5.5 Eighth IFIP Working Conference on Virtual Enterprises September 10-12,

2007, Guimarães, Portugal

Springer Science & Business Media *This book includes a number of selected papers from the PRO-VE '07 Conference, providing a comprehensive overview of recent advances in various Collaborative Networks domains. It covers trust aspects, performance and value systems, VO breeding environments, VO creation, e-contracting, collaborative architectures and frameworks, professional virtual communities, interoperability issues, business benefits, and case studies and applications in industry and services.*

Innovations in Applied Artificial Intelligence

18th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, IEA/AIE 2005, Bari, Italy, June 22-24, 2005, Proceedings

Springer *"Intelligent systems are those which produce intelligent o?springs." AI researchers have been focusing on developing and employing strong methods that are capable of solving complex real-life problems. The 18th International Conference on Industrial & Engineering Applications of Arti?cial Intelligence & Expert Systems (IEA/AIE 2005) held in Bari, Italy presented such work performed by many scientists worldwide. The Program Committee selected long papers from contributions presenting more complete work and posters from those reporting ongoing research. The Committee enforced the rule that only original and unpublished work could be considered for inclusion in these proceedings. The Program Committee selected 116 contributions from the 271 subm- ted papers which cover the following topics: arti?cial systems, search engines, intelligent interfaces, knowledge discovery, knowledge-based technologies, na- ral language processing, machine learning applications, reasoning technologies, uncertainty management, applied data mining, and technologies for knowledge management. The contributions oriented to the technological aspects of AI and the*

quality of the papers are witness to a research activity clearly aimed at consolidating the theoretical results that have already been achieved. The c- ference program also included two invited lectures, by Katharina Morik and Roberto Pieraccini. Manypeoplecontributedindi?erentwaystothesuccessoftheconferenceand to this volume. The authors who continue to show their enthusiastic interest in applied intelligence research are a very important part of our success. We highly appreciate the contribution of the members of the Program Committee, as well as others who reviewed all the submitted papers with e?ciency and dedication.

Negotiation, Auctions, and Market Engineering

International Seminar, Dagstuhl Castle, Germany, November 12-17, 2006, Revised Selected Papers

Springer Science & Business Media *This book contains a selection of papers presented at the International Seminar "Negotiation and Market Engineering", held at Dagstuhl Castle, Germany, in November 2006. The 17 revised full papers presented were carefully selected and reviewed. The papers deal with the complexity of negotiations, auctions, and markets as economic, social, and IT systems. The authors give a broad overview on the major issues to be addressed and the methodologies used to approach them.*