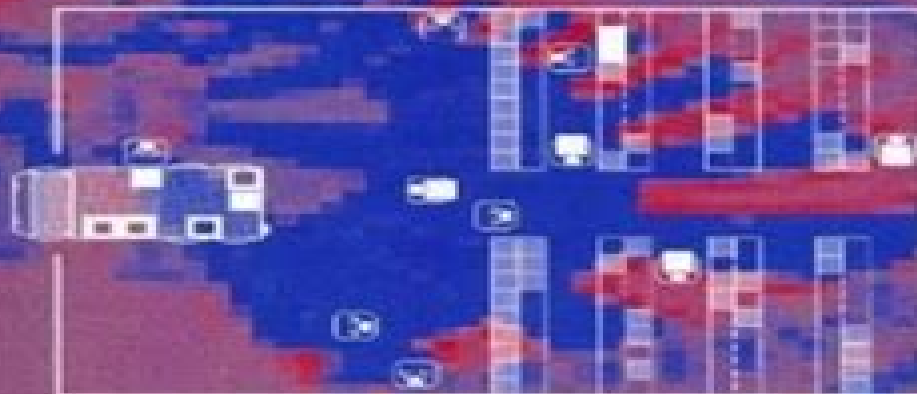


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The Design of Intelligent Agents

A Layered Approach



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Design Of Intelligent Agents A Layered Approach

Khaled Nagi



Design Of Intelligent Agents A Layered Approach:

The Design of Intelligent Agents Jörg P. Müller, 1996-11-27 This monograph presents a comprehensive state of the art survey on approaches to the design of intelligent agents On the theoretical side the author identifies a set of general requirements for autonomous interacting agents and provides an essential step towards understanding the principles of intelligent agents On the practical side the novel agent architecture InterRaP is introduced the detailed description and evaluation of this architecture is an ideal guideline and case study for software engineers or researchers faced with the task of building an agent system The book uniquely bridges the gap between theory and practice it addresses active and novice researchers as well as practitioners interested in applicable agent technology *Intelligent Agents and Multi-Agent Systems*

Kazuhiro Kuwabara, Jaeho Lee, 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 Pacific Rim International Workshop on Multi Agents held in Tokyo Japan on August 18 19 2002 in conjunction with the 7th Pacific Rim International Conference on Artificial Intelligence PRICAI 02 PRIMA is a series of workshops on autonomous agents and multi agent systems integrating activities in the Asian and Pacific Rim countries PRIMA 2002 built on the great success of its predecessors 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 staff of Springer Verlag for publishing this volume in the Lecture Notes in Artificial Intelligence *Intelligent Agents V: Agents Theories, Architectures, and Languages*

Jörg Müller, Munindar P. Singh, Anand S. Rao, 2007-04-29 The leading edge of computer science research is notoriously cyclic New trends come and go with alarming and unfailing regularity In such a rapidly changing field the fact that research interest in a subject lasts more than a year is worthy of note The fact that after five years interest not only remains but actually continues to grow is highly unusual As 1998 marked the fifth birthday of the International Workshop on Agent Theories Architectures and Languages ATAL it seemed appropriate for the organizers of the original workshop to comment on this remarkable growth and reflect on how the field has developed and matured The first ATAL workshop was co located with the Eleventh European Conference on Artificial Intelligence ECAI 94 which was held in Amsterdam The fact that we chose an AI conference to co locate with is telling at that time we expected most researchers with an interest in agents to come from the AI community The workshop

which was planned over the summer of 1993 attracted 32 submissions and was attended by 55 people ATAL was the largest workshop at ECAI 94 and the clear enthusiasm on behalf of the community made the decision to hold another ATAL workshop simple The ATAL 94 proceedings were formally published in January 1995 under the title Intelligent Agents and included an extensive review article a glossary a list of key agent systems and unusually for the proceedings of an academic workshop a full subject index The high scientific and production values embodied by the ATAL 94 proceedings appear to have been recognized by the community and resulted in ATAL proceedings being the most successful sequence of books published in Springer Verlag's Lecture Notes in Artificial Intelligence series

Advances In Informatics - Proceedings Of The 7th Hellenic Conference On Informatics (Hci'99) Stavros D Nikolopoulos, Dimitrios I Fotiadis, 2000-03-29 This volume addresses the state of the art and future directions of informatics Several senior researchers and graduate students present their research and work here The purpose of the book is to disseminate the latest scientific engineering and technical information in various fields of informatics It covers a wide range of subjects from theoretical computer science software engineering systems and scientific computing to networking and applied research The book can be used either as a reference for related scientific work or as educational material for advanced computer science courses

Communication in Multiagent Systems Marc-Phillipe Huget, 2003-09-09 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

Transactional Agents Khaled Nagi, 2003-06-30 The term agent is one of those catchwords that mean widely differing things to different people To telecommunications people it is little more than a mobile piece of code that may be executed at any place At the other extreme AI people often associate with agents human like traits such as social behavior In between software people view agents as fairly self contained pieces of software that at the low end pretty much act like objects and at the high end more or less automatically decide when and how to react to stimuli or proactively initiate effects that can be observed from their environment Software agents are particularly important when it comes to distributed environments There much of the communication takes place asynchronously that is the sequence of events cannot be planned ahead in all detail Instead agents are given rules as to how to interpret the current situation and given a common goal so that they adjust their response accordingly

Safety and Security in Multiagent Systems Mike Barley, Haris Mouratidis, Amy Unruh, Diana F. Gordon-Spears, Paul Scerri, Fabio MASSACCI, 2009-10-15 As intelligent

autonomous agents and multiagent system applications become more pervasive it becomes increasingly important to understand the risks associated with using these systems Incorrect or inappropriate agent behavior can have harmful effects including financial cost loss of data and injury to humans or systems For ample NASA has proposed missions where multiagent systems working in space or on other planets will need to do their own reasoning about safety issues that concern not only themselves but also that of their mission Likewise industry is interested in agent systems that can search for new supply opportunities and engage in semi automated negotiations over new supply contracts These systems should be able to securely negotiate such arrangements and decide which credentials can be requested and which credentials may be disclosed Such systems may encounter environments that are only partially understood and where they must learn for themselves which aspects of their environment are safe and which are dangerous Thus security and safety are two central issues when developing and deploying such systems We refer to a multiagent system's security as the ability of the system to deal with threats that are intentionally caused by other intelligent agents and or systems and the system's safety as its ability to deal with any other threats to its goals

Highlights of Practical Applications of Agents, Multi-Agent Systems, and Sustainability: The PAAMS Collection Javier Bajo, Kasper Hallenborg, Pawel Pawlewski, Vicente Botti, Nayat Sánchez-Pi, Nestor Darío Duque Méndez, Fernando Lopes, Vicente Julian, 2015-05-12 This book constitutes the refereed proceedings of the workshops which complemented the 13th International Conference on Practical Applications of Agents and Multi Agent Systems PAAMS 2015 held in Salamanca Spain in June 2015 The 36 revised full papers presented were carefully reviewed and selected from 91 submissions This volume presents the papers that have been accepted for the following workshops Workshop on Agents and multi agent Systems for AAL and e HEALTH Workshop on Agent Based Solutions for Manufacturing and Supply Chain Workshop on MAS for Complex Networks and Social Computation Workshop on Intelligent Systems for Context based Information Fusion Workshop on Multi agent based Applications for Smart Grids and Sustainable Energy Systems Workshop on Multiagent System based Learning Environments Workshop in Intelligent Human Agent Societies

Advances in Networked Enterprises Luis M. Camarinha-Matos, Hamideh Afsarmanesh, Heinz-H. Erbe, 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

Agent-Based Tutoring Systems by Cognitive and Affective Modeling Viccari, Rosa Maria, Jaques, Patricia Augustin, Verdin, Regina, 2008-05-31 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

Conceptual Modelling of Multi-Agent Systems Norbert Glaser, 2012-12-06 Conceptual Modelling of Multi Agent Systems proposes the methodology and engineering environment CoMoMAS for the development of multi agent systems CoMoMAS is among the most elaborated and most often cited multi agent development approaches available in the field Its originality is to address the issue of the development of multi agent systems MAS from a knowledge engineering perspective which means that agents are seen as interacting entities having different kinds of knowledge which is to be identified during development Knowledge has played an important role for MAS development in the past but CoMoMAS makes a step further in proposing a complete set of conceptual models and a solid methodology to guide the overall development process of a MAS from design to validation Conceptual Modelling of Multi Agent Systems is an excellent reference for both researchers and practitioners in the broad area of distributed systems development This book is of particular value from the point of view of computer science including knowledge engineering artificial intelligence agent and multi agent technology and software engineering

Applications and Innovations in Intelligent Systems X Ann Macintosh, Richard Ellis, Frans Coenen, 2012-12-06 The papers in this volume are the referred Applications papers presented at ES 2002 the Twenty second SGES international Conference on Knowledge Based Systems and Applied Artificial Intelligence to be held in Cambridge during December 2002 The Application stream is the largest annual showcase in Europe of real applications using AI technology Papers presented in this volume describe the application of AI to address real world problems including commerce manufacturing and defence and every major AI technique and highlight critical areas of

success and failure and present the benefits and lessons of value to other developers This is the tenth volume in the Applications and Innovations in Intelligent Systems series The series serves as a key reference as to how AI technology has enabled organisations to solve complex problems and gain significant business benefits The Technical Stream papers are published as a companion volume under the title Research and Development in Intelligent Systems XIX

Autonomous, Model-Based Diagnosis Agents Michael Schroeder, 2012-12-06 Autonomous Model Based Diagnosis Agents defines and describes the implementation of an architecture for autonomous model based diagnosis agents It does this by developing a logic programming approach for model based diagnosis and introducing strategies to deal with more complex diagnosis problems and then embedding the diagnosis framework into the agent architecture of vivid agents Autonomous Model Based Diagnosis Agents surveys extended logic programming and shows how this expressive language is used to model diagnosis problems stemming from applications such as digital circuits traffic control integrity checking of a chemical database alarm correlation in cellular phone networks diagnosis of an automatic mirror furnace and diagnosis of communication protocols The book reviews a bottom up algorithm to remove contradiction from extended logic programs and substantially improves it by top down evaluation of extended logic programs Both algorithms are evaluated in the circuit domain including some of the ISCAS85 benchmark circuits This comprehensive in depth study of concepts architectures and implementation of autonomous model based diagnosis agents will be of great value for researchers engineers and graduate students with a background in artificial intelligence For practitioners it provides three main contributions first it provides many examples from diverse areas such as alarm correlation in phone networks to inconsistency checking in databases second it describes an architecture to develop agents and third it describes a sophisticated and declarative implementation of the concepts and architectures introduced

Smart Agents for the Industry 4.0 Max Hoffmann, 2019-09-11 Max Hoffmann describes the realization of a framework that enables autonomous decision making in industrial manufacturing processes by means of multi agent systems and the OPC UA meta modeling standard The integration of communication patterns and SOA with grown manufacturing systems enables an upgrade of legacy environments in terms of Industry 4.0 related technologies The added value of the derived solutions are validated through an industrial use case and verified by the development of a demonstrator that includes elements of self optimization through Machine Learning and communication with high level planning systems such as ERP About the Author Dr Ing Max Hoffmann is a scientific researcher at the Institute of Information Management in Mechanical Engineering RWTH Aachen University Germany and leads the group Industrial Big Data His research emphasizes on production optimization by means of data integration through interoperability and communication standards for industrial manufacturing and integrated analysis by using Machine Learning and stream based information processing

Intelligent Agents III. Agent Theories, Architectures, and Languages Michael J. Wooldridge, Nick Jennings, 1997-01-22 Intelligent agents are computer systems that are capable of flexible autonomous action in dynamic typically multi agent domains Over

the past few years the computer science community has begun to recognise that the technology of intelligent agents provides the key to solving a range of complex software application problems for which traditional software engineering tools and techniques offer no solution This book the third in a series represents the state of the art in the science of agent systems It is based on papers presented at the 3rd workshop on Agent Theories Architectures and Languages ATAL 96 held in conjunction with the European Conference on Artificial Intelligence ECAI 96 in Budapest Hungary in August 1996 It is essential reading for anyone interested in this vital new technology

Encyclopedia of Library and Information Science Allen Kent,2000-05-19

Adsorption of Information Technology to Software Reliability **ANEMONA** Vicent Botti,Adriana Giret Boggino,2008-06-28

ANEMONA is a multi agent system MAS methodology for holonic manufacturing system HMS analysis and design ANEMONA defines a mixed top down and bottom up development process and provides HMS specific guidelines to help designers identify and implement holons The analysis phase is defined in two stages System Requirements Analysis and Holon Identification and Specification This analysis provides high level HMS specifications adopting a top down recursive approach which provides a set of elementary elements and assembling rules The next stage is Holon Design a bottom up process to produce the system architecture from the analysis models The Holons Implementation stage produces an Executable Code for the SetUp and Configuration stage Finally maintenances functions are executed in the Operation and Maintenance stage The book will be of interest to researchers and students involved in artificial intelligence and software engineering and manufacturing engineers in industry and academia

Agent-Based Defeasible Control in Dynamic Environments John-Jules Ch. Meyer,Jan Treur,2013-03-09 This volume the 7th volume in the DRUMS Handbook series is part of the aftermath of the successful ESPRIT project DRUMS Defeasible Reasoning and Uncertainty Management Systems which took place in two stages from 1989 1996 In the second stage 1993 1996 a work package was introduced devoted to the topics Reasoning and Dynamics covering both the topics of Dynamics of Reasoning where reasoning is viewed as a process and Reasoning about Dynamics which must be understood as pertaining to how both designers of and agents within dynamic systems may reason about these systems The present volume presents work done in this context extended with some work done by outstanding researchers outside the project on related issues While the previous volume in this series had its focus on the dynamics of reasoning processes the present volume is more focused on reasoning about dynamics viz how human and artificial agents reason about systems in dynamic environments in order to control them In particular we consider modelling frameworks and generic agent models for modelling these dynamic systems and formal approaches to these systems such as logics for agents and formal means to reason about agent based and compositional systems and action change more in general We take this opportunity to mention that we have very pleasant recollections of the project with its lively workshops and other meetings with the many sites and researchers involved both within and outside our own work package

Cooperative Information Agents III Matthias Klusch,Onn M. Shehory,Gerhard Weiß,1999-07-21 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

Neural Information Processing Nikil R. Pal, Nikola Kasabov, Rajani K. Mudi, Srimanta Pal, Swapan K. Parui, 2004-10-29 It is our great pleasure to welcome you to the 11th International Conference on Neural Information Processing ICONIP 2004 to be held in Calcutta ICONIP 2004 is organized jointly by the Indian Statistical Institute ISI and Jadavpur University JU We are confident that ICONIP 2004 like the previous conferences in this series will provide a forum for fruitful interaction and the exchange of ideas between the participants coming from all parts of the globe ICONIP 2004 covers all major facets of computational intelligence but of course with a primary emphasis on neural networks We are sure that this meeting will be enjoyable academically and otherwise We are thankful to the track chairs and the reviewers for extending their support in various forms to make a sound technical program Except for a few cases where we could get only two review reports each submitted paper was reviewed by at least three referees and in some cases the revised versions were again checked by the referees We had 470 submissions and it was not an easy task for us to select papers for a four day conference Because of the limited duration of the conference based on the review reports we selected only about 40% of the contributed papers Consequently it is possible that some good papers are left out We again express our sincere thanks to all referees for accomplishing a great job In addition to 186 contributed papers the proceedings includes two plenary presentations four invited talks and 18 papers in four special sessions The proceedings is organized into 26 coherent topical groups

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