

developing intelligent agent systems

a practical guide

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Lin Padgham
Michael Winikoff

Developing Intelligent Agent Systems A Practical Guide

**Mehdi Khosrow-Pour, Mehdi
Khosrowpour**



Developing Intelligent Agent Systems A Practical Guide:

Developing Intelligent Agent Systems Lin Padgham, Michael Winikoff, 2005-06-24 Build your own intelligent agent system Intelligent agent technology is a tool of modern computer science that can be used to engineer complex computer programmes that behave rationally in dynamic and changing environments Applications range from small programmes that intelligently search the Web buying and selling goods via electronic commerce to autonomous space probes This powerful technology is not widely used however as developing intelligent agent software requires high levels of training and skill The authors of this book have developed and tested a methodology and tools for developing intelligent agent systems With this methodology Prometheus developers can start agent oriented designs and implementations easily from scratch saving valuable time and resources *Developing Intelligent Agent Systems* not only answers the questions what are agents and why are they useful but also the crucial question how do I design and build intelligent agent systems The book covers everything a practitioner needs to know to begin to effectively use this technology including an introduction to the notion of agents a description of the concepts involved and a software engineering methodology Read on for a practical step by step introduction to designing and building intelligent agent systems a full life cycle methodology for developing intelligent agent systems covering specification analysis design and implementation of agents PDT Prometheus Design Tool software support for the Prometheus design process the example of an electronic bookstore to illustrate the design process throughout the book Electronic resources including the Prometheus Design Tool PDT can be found at <http://www.cs.rmit.edu.au/agents/prometheus> This book is aimed at industrial software developers software engineers and at advanced undergraduate students It assumes knowledge of basic software engineering but does not require knowledge of Artificial Intelligence or of mathematics Familiarity with Java will help in reading the examples in chapter 10

Agent-Oriented Software

Engineering VIII Michael Luck, Lin Padgham, 2008-04-29 Software architectures that contain many dynamically interacting components each with its own thread of control engaging in complex coordination protocols are difficult to correctly and efficiently engineer Agent oriented modelling techniques are important for the design and development of such applications This book provides a diverse and interesting overview of the work that is currently being undertaken by a growing number of researchers in the area of Agent Oriented Software Engineering This volume constitutes the thoroughly refereed proceedings of the 8th International Workshop on Agent Oriented Software Engineering AOSE 2007 held in Honolulu Hawaii in May 2007 as part of AAMAS 2007 The 16 revised full papers were carefully selected from numerous submissions during two rounds of reviewing and improvement The volume contains the papers presented at the workshop together with papers resulting from discussions on tools and platforms The papers have been organized into four sections on methodology and processes interacting heterogeneous agents system development issues and tools and case studies

The Agent Modeling Language - AML Radovan Cervenka, Ivan Trencansky, 2007-04-17 Multi agent systems have been a focus of studies for more than 25

years Yet despite substantial effort of an active research community modeling of multi agent systems still lacks complete and proper definition general acceptance and practical application This book provides the Agent Modeling Language AML a comprehensive modeling language as an extension of UML 2 0 concentrating on multi agent systems and applications

Handbook of Research on Multi-Agent Systems: Semantics and Dynamics of Organizational Models Dignum, Virginia, 2009-03-31 This book provide a comprehensive view of current developments in agent organizations as a paradigm for both the modeling of human organizations and for designing effective artificial organizations Provided by publisher

Agent-Oriented Software Engineering X Marie-Pierre Gleizes, Jorge J. Gomez-Sanz, 2011-03-14 This volume constitutes the thoroughly refereed post conference proceedings of the 10th International Workshop on Agent Oriented Software Engineering AOSE 2009 held in Budapest Hungary in May 2009 as part of AAMAS 2009 the 8th International Conference on Autonomous Agents and Multiagent Systems The 10 revised full papers presented were carefully selected from numerous initial submissions during two rounds of reviewing and improvement The papers have been organized into three sections on multi agent organizations concrete development techniques and one step higher going beyond the concrete technique and proposing a development method for designing concrete types of systems This state of the art survey is rounded off by five additional lectures addressing key areas in development agent oriented modelling languages implementation of MAS testing of MAS software processes and formal methods for the development of MAS They permit analysis of the current state in the generation of specifications of MAS the way these specifications can be implemented how they can be validated and what steps are necessary to do so

Agent and Multi-Agent Systems: Technologies and Applications Geun Sik Jo, Lakhmi Jain, 2008-03-14 Following from the very successful First KES Symposium on Agent and Multi Agent Systems Technologies and Applications KES AMSTA 2007 held in Wroclaw Poland 31 May 1 June 2007 the second event in the KES AMSTA symposium series KES AMSTA 2008 was held in Incheon Korea March 26 28 2008 The symposium was organized by the School of Computer and Information Engineering Inha University KES International and the KES Focus Group on Agent and Multi agent Systems The KES AMSTA Symposium Series is a sub series of the KES Conference Series The aim of the symposium was to provide an international forum for scientific research into the technologies and applications of agent and multi agent systems Agent and multi agent systems are related to the modern software which has long been recognized as a promising technology for constructing autonomous complex and intelligent systems A key development in the field of agent and multi agent systems has been the specification of agent communication languages and formalization of ontologies Agent communication languages are intended to provide standard declarative mechanisms for agents to communicate knowledge and make requests of each other whereas ontologies are intended for conceptualization of the knowledge domain The symposium attracted a very large number of scientists and practitioners who submitted their papers for nine main tracks concerning the methodology and applications of agent and multi agent systems a doctoral track

and two special sessions **Encyclopedia of Information Science and Technology** Mehdi Khosrow-Pour, Mehdi Khosrowpour, 2009 This set of books represents a detailed compendium of authoritative research based entries that define the contemporary state of knowledge on technology Provided by publisher *Digital Information Processing and Communications, Part II* Václav Snášel, Jan Platos, Eyas El-Qawasmeh, 2011-06-30 This two volume set CCIS 188 and CCIS 189 constitutes the refereed proceedings of the International Conference on Digital Information Processing and Communications ICDIPC 2011 held in Ostrava Czech Republic in July 2011 The 91 revised full papers of both volumes presented together with 4 invited talks were carefully reviewed and selected from 235 submissions The papers are organized in topical sections on network security Web applications data mining neural networks distributed and parallel processing biometrics technologies e learning information ethics image processing information and data management software engineering data compression networks computer security hardware and systems multimedia ad hoc network artificial intelligence signal processing cloud computing forensics security software and systems mobile networking and some miscellaneous topics in digital information and communications Principles and Practice of Multi-Agent Systems Nirmit Desai, Alan Liu, Michael Winikoff, 2012-01-09 This book constitutes the thoroughly refereed post conference proceedings of the 13th International Conference on Principles and Practice of Multi Agent Systems PRIMA 2010 held in Kolkata India in November 2010 The 18 full papers presented together with 15 early innovation papers were carefully reviewed and selected from over 63 submissions They focus on practical aspects of multiagent systems and cover topics such as agent communication agent cooperation and negotiation agent reasoning agent based simulation mobile and semantic agents agent technologies for service computing agent based system development ServAgents workshop IAHC workshop and PRACSYS workshop Discrete and Continuous Simulation Susmita Bandyopadhyay, Ranjan Bhattacharya, 2014-06-25 When it comes to discovering glitches inherent in complex systems be it a railway or banking chemical production medical manufacturing or inventory control system developing a simulation of a system can identify problems with less time effort and disruption than it would take to employ the original Advantageous to both academic and industrial practitioners Discrete and Continuous Simulation Theory and Practice offers a detailed view of simulation that is useful in several fields of study This text concentrates on the simulation of complex systems covering the basics in detail and exploring the diverse aspects including continuous event simulation and optimization with simulation It explores the connections between discrete and continuous simulation and applies a specific focus to simulation in the supply chain and manufacturing field It discusses the Monte Carlo simulation which is the basic and traditional form of simulation It addresses future trends and technologies for simulation with particular emphasis given to NET technologies and cloud computing and proposes various simulation optimization algorithms from existing literature Includes chapters on input modeling and hybrid simulation Introduces general probability theory Contains a chapter on Microsoft Excel™ and MATLAB Simulink Discusses various probability distributions required for

simulation Describes essential random number generators Discrete and Continuous Simulation Theory and Practice defines the simulation of complex systems This text benefits academic researchers in industrial manufacturing systems engineering computer sciences operations research and researchers in transportation operations management healthcare systems and human machine systems

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