



# Promethueus Design

**Lin Padgham, Franco Zambonelli**



## **Promethueus Design:**

The Prometheus Design Sondra Marshak, Myrna Culbreath, 1994-11-01      **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      **Agent-Oriented Software Engineering**

Onn Shehory, Arnon Sturm, 2014-06-02 With this book Onn Shehory and Arnon Sturm together with further contributors introduce the reader to various facets of agent oriented software engineering AOSE They provide a selected collection of state of the art findings which combines research from information systems artificial intelligence distributed systems and software engineering and covers essential development aspects of agent based systems The book chapters are organized into five parts The first part introduces the AOSE domain in general including introduction to agents and the peculiarities of software engineering for developing MAS The second part describes general aspects of AOSE like architectural models design patterns and communication Next part three discusses AOSE methodologies and associated research directions and elaborates on Prometheus O MaSE and INGENIAS Part four then addresses agent oriented programming languages Finally the fifth part presents studies related to the implementation of agents and multi agent systems The book not only provides a comprehensive review of design approaches for specifying agent based systems but also covers implementation aspects such as communication standards and tools and environments for developing agent based systems It is thus of interest to researchers practitioners and students who are interested in exploring the agent paradigm for developing software systems

Innovations in Smart Cities Applications Volume 4 Mohamed Ben Ahmed, İsmail Rakıp Karas, Domingos Santos, Olga Sergeyeveva, Anouar Abdelhakim Boudhir, 2021-02-12 This proceedings book is the fourth edition of a series of works which features emergent research trends and recent innovations related to smart city presented at the 5th International Conference on Smart City Applications SCA20 held in Safranbolu Turkey This book is composed of peer reviewed chapters written by leading international scholars in the field of smart cities from around the world This book covers all the smart city topics including Smart Citizenship Smart Education Smart Mobility Smart Healthcare Smart Mobility Smart Security Smart

Earth Environment Agriculture Smart Economy Smart Factory and Smart Recognition Systems This book contains a special section intended for Covid 19 pandemic researches This book edition is an invaluable resource for courses in computer science electrical engineering and urban sciences for sustainable development     Agent-Oriented Methodologies

Henderson-Sellers, Brian, Giorgini, Paolo, 2005-04-30 The book presents analyzes and compares the most significant methodological approaches currently available for the creation of agent oriented software systems Provided by publisher

**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 IX* Michael Luck, Jorge J. Gomez-Sanz, 2009-04-22 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 The papers represent a state of the art report of current research in this field which is of critical importance in facilitating industry take up of powerful agent technologies This volume constitutes the thoroughly refereed post conference proceedings of the 9th International Workshop on Agent

Oriented Software Engineering AOSE 2008 held in Estoril Portugal in May 2008 as part of AAMAS 2008 The 20 revised full papers were carefully selected from 50 initial submissions during two rounds of reviewing and improvement The papers have been organized into four sections on multi agent organizations method engineering and software development processes testing and debugging as well as tools and case studies **Agent-Oriented Software Engineering VII** Lin

Padgham,Franco Zambonelli,2007-08-06 This book constitutes the thoroughly refereed post proceedings of the 7th International Workshop on Agent Oriented Software Engineering AOSE 2006 held in Hakodate Japan in May 2006 as part of AAMAS 2006 The 13 revised full papers are organized in topical sections on modeling and design of agent systems modeling open agent systems formal reasoning about designs as well as testing debugging and evolvability *Methodologies and Software Engineering for Agent Systems* Federico Bergenti,Marie-Pierre Gleizes,Franco Zambonelli,2006-04-28 As information technologies become increasingly distributed and accessible to larger number of people and as commercial and government organizations are challenged to scale their applications and services to larger market shares while reducing costs there is demand for software methodologies and applications to provide the following features Richer application end to end functionality Reduction of human involvement in the design and deployment of the software Flexibility of software behaviour and Reuse and composition of existing software applications and systems in novel or adaptive ways When designing new distributed software systems the above broad requirements and their translation into implementations are typically addressed by partial complementarities and overlapping technologies and this situation gives rise to significant software engineering challenges Some of the challenges that may arise are determining the components that the distributed applications should contain organizing the application components and determining the assumptions that one needs to make in order to implement distributed scalable and flexible applications etc **Motivation and Agency** Alfred R.

Mele,2003-01-02 What place does motivation have in the lives of intelligent agents Mele's answer is sensitive to the concerns of philosophers of mind and moral philosophers and informed by empirical work He offers a distinctive comprehensive attractive view of human agency This book stands boldly at the intersection of philosophy of mind moral philosophy and metaphysics **Games, Learning, and Society** Constance Steinkuehler,Kurt Squire,Sasha Barab,2012-06-11 Leaders in the field provide an introduction to video games and learning including essays on game design and game culture

**Artificial Intelligence Research and Development** T. Alsinet,J. Puyol-Gruart,C. Torras,2008-10-15 There was a time when AI was seen by many as science fiction i.e the healthy endeavour of speculating about the future Now the future is here AI has passed from being a visionary discipline to lying at the core of many commercial enterprises AI programs scattered through the web influence nowadays our lives by extracting profiles and offering tailored advertisement helping us in our searches establishing social networks providing entertainment And not just in the net but also in the physical world In Japan there are robots that guide customers through marketplaces advising them where to find the product matching their needs

and realistic replicas of university professors allow them to teach their lectures a hundred kilometres away from the classroom Not to speak about intelligent prostheses and remote high precision surgery In the Catalan speaking world there are no robots in marketplaces yet but it is coming Recently the first commercial humanoid robot was built Since AI technology is becoming reasonably mature companies are progressively relying on it The Catalan Association for Artificial Intelligence ACIA tries to promote synergies within the research community and also between the different actors playing a role in the development of AI from universities to industry from governmental departments to the information society from entertainment enterprises to citizen services

ECAI 2014 T. Schaub, G. Friedrich, B. O'Sullivan, 2014-08 The role of artificial intelligence AI applications in fields as diverse as medicine economics linguistics logical analysis and industry continues to grow in scope and importance AI has become integral to the effective functioning of much of the technical infrastructure we all now take for granted as part of our daily lives This book presents the papers from the 21st biennial European Conference on Artificial Intelligence ECAI 2014 held in Prague Czech Republic in August 2014 The ECAI conference remains Europe's principal opportunity for researchers and practitioners of Artificial Intelligence to gather and to discuss the latest trends and challenges in all subfields of AI as well as to demonstrate innovative applications and uses of advanced AI technology Included here are the 158 long papers and 94 short papers selected for presentation at the conference Many of the papers cover the fields of knowledge representation reasoning and logic as well as agent based and multi agent systems machine learning and data mining The proceedings of PAIS 2014 and the PAIS System Demonstrations are also included in this volume which will be of interest to all those wishing to keep abreast of the latest developments in the field of AI

**Thorium Energy for the World** Jean-Pierre Revol, Maurice Bourquin, Yacine Kadi, Egil Lillestøl, Jean-Christophe de Mestral, Karel Samec, 2016-04-05 The Thorium Energy Conference ThEC13 gathered some of the world's leading experts on thorium technologies to review the possibility of destroying nuclear waste in the short term and replacing the uranium fuel cycle in nuclear systems with the thorium fuel cycle in the long term The latter would provide abundant reliable and safe energy with no CO<sub>2</sub> production no air pollution and minimal waste production The participants representatives of 30 countries included Carlo Rubbia Nobel Prize Laureate in physics and inventor of the Energy Amplifier Jack Steinberger Nobel Prize Laureate in physics Hans Blix former Director General of the International Atomic Energy Agency IAEA Rolf Heuer Director General of CERN Pascal Couchepin former President of the Swiss Confederation and Claude Haegi President of the FEDRE to name just a few The ThEC13 proceedings are a source of reference on the use of thorium for energy generation They offer detailed technical reviews of the status of thorium energy technologies from basic R D to industrial developments They also describe how thorium can be used in critical reactors and in subcritical accelerator driven systems ADS answering the important questions Why is thorium so attractive and what is the role of innovation in particular in the nuclear energy domain What are the national and international R D programs on thorium technologies and

how are they progressing ThEC13 was organized jointly by the international Thorium Energy Committee iThEC an association based in Geneva and the International Thorium Energy Organisation IThEO It was held in the Globe of Science and Innovation at the European Organization for Nuclear Research CERN Geneva Switzerland in October 2013

**Software and Data Technologies** Joaquim Filipe, Boris Shishkov, Markus Helfert, Leszek Maciaszek, 2008-11-02 This book contains the best papers of the Second International Conference on Software and Data Technologies ICSOFT 2007 held in Barcelona Spain It was organized by the Institute for Systems and Technologies of Information Communication and Control INSTICC co-sponsored by the Workflow Management Coalition WfMC in cooperation with the Interdisciplinary Institute for Collaboration and Research on Enterprise Systems and Technology IICREST The purpose of ICSOFT 2007 was to bring together researchers and practitioners interested in information technology and software development The conference tracks were Software Engineering Information Systems and Data Management Programming Languages Distributed and Parallel Systems and Knowledge Engineering Being crucial for the development of information systems software and data technologies encompass a large number of research topics and applications from implementation related issues to more abstract theoretical aspects of software engineering from databases and data warehouses to management information systems and knowledge base systems next to that distributed systems pervasive computing data quality and other related topics are included in the scope of this conference

**Nature Inspired Problem-Solving Methods in Knowledge Engineering** José Mira, José R. Álvarez, 2007-06-23 The second of a two volume set this book constitutes the refereed proceedings of the Second International Work Conference on the Interplay between Natural and Artificial Computation IWINAC 2007 held in La Manga del Mar Menor Spain in June 2007 It contains all the contributions connected with biologically inspired methods and techniques for solving AI and knowledge engineering problems in different application domains

*Software Engineering for Multi-Agent Systems IV* Alessandro Garcia, Ricardo Choren, Carlos Lucena, Paolo Giorgini, Tom Holvoet, Alexander Romanovsky, 2006-04-18 This book presents a coherent well balanced survey of recent advances in software engineering approaches to the design and analysis of realistic large scale multi agent systems MAS The chapters included are devoted to various techniques and methods used to cope with the complexity of real world MAS Reflecting the importance of agent properties in today's software systems the power of agent based software engineering is illustrated using examples that are representative of successful applications

**Declarative Agent Languages and Technologies V** Matteo Baldoni, Tran Cao Son, M. Birna van Riemsdijk, Michael Winikoff, 2008-01-29 This book constitutes the thoroughly refereed post workshop proceedings of the 5th International Workshop on Declarative Agent Languages and Technologies DALT 2007 held in Honolulu USA in 2007 It was an associated event of AAMAS 2007 the conference on autonomous agents and multi agent systems The 11 full papers together with 1 keynote lecture and 2 invited papers from the AAMAS main conference were carefully selected and substantially enhanced after the workshop

Agent and Multi-Agent Systems: Technologies and

Applications Anne Hakansson, Ronald Hartung, 2009-05-25 This book constitutes the proceedings of the Third International Symposium on Agent and Multi Agent Systems Technologies and Applications held in Uppsala Sweden during June 3 5 2009 The 86 papers contained in this volume were carefully reviewed and selected from numerous submissions There are 13 main tracks covering the methodology and applications of agent and multi agent systems and 8 special sessions on specific topics within the field The papers are divided in topical sections on social and organizational structures of agents negotiation protocols mobile agents and robots agent design and implementation e commerce simulation systems and game systems agent systems and ontologies agents for network systems communication and agent learning systems Web services and semantic Web self organization in multi agent systems management and e business mobile and intelligent agents for networks and services engineering interaction protocols agent based simulation decision making and systems optimization digital economy agent based optimization ABO2009 distributed systems and artificial intelligence applications

*Modeling and Simulation Techniques for Improved Business Processes* Ebrahimi, Maryam, 2018-01-05 Companies are constantly faced with the need to grow and advance in order to compete with other corporations The implementation of computer innovations allows for smoother transitions to adaptive changes through the use and understanding of analytical tools Modeling and Simulation Techniques for Improved Business Processes is a critical scholarly resource that examines the systems currently implemented in companies and how they can be upgraded and advanced through various computer design methods Featuring coverage of a broad range of topics including scenario planning casual modeling and system dynamics this publication is targeted toward researchers professionals and engineers searching for current research on corporate innovations created through computer design methods



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