

Agent-Oriented Software Engineering

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Agentoriented Software Engineering

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Agentoriented Software Engineering:

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

Agent-Oriented Software Engineering Paolo Ciancarini, 2001-01-30 One of the most important reasons for the current intensity of interest in agent technology is that the concept of an agent as an autonomous system capable of interacting with other agents in order to satisfy its design objectives is a natural one for software designers Just as we can understand many systems as being composed of essentially passive objects which have a state and upon which we can perform operations so we can understand many others as being made up of interacting semi autonomous agents This book brings together revised versions of papers presented at the First International Workshop on Agent Oriented Software Engineering AOSE 2000 held in Limerick Ireland in conjunction with ICSE 2000 and several invited papers As a comprehensive and competent overview of agent oriented software engineering the book addresses software engineers interested in the new paradigm and technology as well as research and development professionals active in agent technology

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

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 *Agent-Oriented Software Engineering II* Michael J. Wooldridge, Gerhard Weiß, Paolo Ciancarini, 2003-08-06 Since the 1980s software agents and multi agent systems have grown into what is now one of the most active areas of research and development activity in computing generally One of the most important reasons for the current intensity of interest in the agent based computing paradigm certainly is that the concept of an agent as an autonomous system capable of interacting with other agents in order to satisfy its design objectives is a natural one for software designers This recognition has led to the growth of interest in agents as a new paradigm for software engineering This book reflects the state of the art in the field by presenting 14 revised full papers accepted for the second workshop on this topic AOSE 2001 together with five invited survey articles The book offers topical sections on societies and organizations protocols and interaction frameworks UML and agent systems agent oriented requirements capture and specification and analysis and design

Agent-Oriented Software Engineering Onn Shehory, Arnon Sturm, 2014-06-30 *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-Oriented Software Engineering

V James Odell, Paolo Giorgini, Jörg, P. Müller, 2005-01-25 The explosive growth of application areas such as electronic commerce enterprise resource planning and mobile computing has profoundly and irreversibly changed our views on software systems Nowadays software is to be based on open architectures that continuously change and evolve to accommodate new components and meet new requirements Software must also operate on different platforms without recompilation and with minimal assumptions about its operating environment and its users Furthermore software must be robust and autonomous capable of serving a naive user with a minimum of overhead and interference Agent concepts hold great promise for responding to the new realities of software systems They offer higher level abstractions and mechanisms which address issues such as knowledge representation and reasoning communication coordination cooperation among heterogeneous and autonomous parties perception commitments goals beliefs and intentions all of which need conceptual modelling On the one hand the concrete implementation of these concepts can lead to advanced functionalities e.g. in inference based query answering transaction control adaptive workflows brokering and integration of disparate information sources and automated communication processes On the other hand their rich representational capabilities allow more faithful and flexible treatments of complex organizational processes leading to more effective requirements analysis and architectural detailed design

Agent-Oriented Software Engineering VI Jörg Müller, Franco Zambonelli, 2006-05-15 This book represents the thoroughly refereed post proceedings of the 6th International Workshop on Agent Oriented Software Engineering AOSE 2005 The 18 revised full papers were carefully selected from 35 submissions during two rounds of reviewing and improvement The papers are organized in topical sections on modeling tools analysis and validation tools multiagent systems design implementation tools and experiences and comparative evaluations

Agent-Oriented Software Engineering III Fausto

Giunchiglia, James Odell, Gerhard Weiß, 2003-07-01 Over the past three decades software engineers have derived a progressively better understanding of the characteristics of complexity in software It is now widely recognised that interaction is probably the most important single characteristic of complex software Software architectures that contain many dynamically interacting components each with their own thread of control and engaging in complex coordination protocols are typically orders of magnitude more complex to correctly and efficiently engineer than those that simply compute a function of some input through a single thread of control Unfortunately it turns out that many if not most real world applications have precisely these characteristics As a consequence a major research topic in computer science over at least the past two decades has been the development of tools and techniques to model understand and implement systems in which interaction is the norm Indeed many researchers now believe that in future computation itself will be understood as chiefly a process of interaction

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 XIII Jörg Müller, Massimo Cossentino, 2013-08-15 This book constitutes the thoroughly refereed post proceedings of the 13th Agent Oriented Software Engineering AOSE workshop held at the 11th International Conference on Autonomous Agents and Multiagent Systems AAMAS 2012 in Valencia Spain in June 2012 This volume presents 9 thoroughly revised papers selected from 24 submissions as well as two invited articles by leading researchers in the field The papers cover a broad range of topics related to software engineering of agent based systems with particular attention to the integration of concepts and techniques from multi agent systems with recent programming languages platforms and established software engineering methodologies

Agent-Oriented Software Engineering XI Danny Weyns, Marie-Pierre Gleizes, 2011-10-09 Since the mid 1980s software agents and multi agent systems have grown into a very active area of research and also commercial development activity One of the limiting factors in industry take up of agent technology however is the lack of adequate software engineering support The Agent Oriented Software Engineering Workshop AOSE focuses on the synergies and cross fertilization between software engineering and agent research This volume presents both thoroughly revised selected papers from the AOSE 2010 workshop held at AAMAS 2010 in Toronto Canada in May 2010 as well as invited articles by leading researchers in the field The papers cover a broad range of topics related to software engineering and agent based systems with particular attention to the integration of concepts and techniques from multi agent systems with conventional engineering approaches on the one hand and to the integration of agent oriented software engineering and methodologies with conventional engineering processes on the other hand

Software Engineering for Multi-Agent Systems III Ricardo Choren, Alessandro Garcia, Carlos Lucena, Alexander Romanovsky, 2011-03-30 This book presents a coherent and 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 The power of agent based software engineering is illustrated using examples that are representative of successful applications The 16 thoroughly reviewed and revised full papers are organized in topical sections on agent methodologies and processes requirements engineering and

software architectures modeling languages and dependability and coordination Most of the papers were initially presented at the 3rd International Workshop on Software Engineering for Large Scale Multi agent Systems SELMAS 2004 held in Edinburgh UK in May 2004 in association with ICSE 2004 Other papers were invited to complete coverage of all relevant aspects **Agent-Based Software Development** ,2004 Software Engineering for Large-Scale Multi-Agent Systems Alessandro Garcia,2003-04-15 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 **Software Engineering for Multi-Agent Systems II** Carlos Lucena,Alessandro Garcia,Alexander Romanovsky,Jaelson Castro,Paulo S.C. Alencar,2004-02-24 Advances in networking technology have revitalized the investigation of agent technologyasapromisingparadigmforengineeringcomplexdistributedsoftware systems Agent technology has been applied to a wide range of application mains including e commerce human computer interfaces telecommunications and software assistants Multi agent systems MASs and their underlying t ories provide a more natural support for ensuring important properties such as autonomy mobility environment heterogeneity organization openness and intelligence As a consequence agent based systems are likely to provide new proaches to dealing with the complexity of developing and maintaining modern software However developing robust large scale agent based systems will quire new software engineering approaches There are currently many methods and techniques for working with individual agents or with systems built using only a few agents Unfortunately agent based software engineering is still in its infancy and existing software engineering approaches are unable to cope with large MASs The complexity associated with a large MAS is considerable When a huge number of agents interact over heterogeneous environments various phenomena occur which are not as easy to capture as when only a few agents are working together As the multiple software agents are highly collaborative and operate in networked environments they have to be context aware and deal with vironment uncertainty This makes their coordination and management more di cult and increases the likelihood of exceptional situations such as security holes privacy violations and unexpected global e cts Moreover as users and softwareengineersdelegatemoreautonomytotheirMASs andputmoretrustin their results new concerns arise in real life applications **Agent-oriented Software Engineering ...** ,2002 *Agent-Oriented Software*

Engineering III Fausto Giunchiglia, James Odell, Gerhard Weiss, 2014-01-15

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