Andrea Omicini · Franco Zambonelli Matthias Klusch · Robert Tolksdorf (Eds.)

Coordination of Internet Agents

Models, Technologies, and Applications





Rajkumar Buyya, George M. Mohay, Paul Roe

Coordination of Internet Agents Andrea Omicini, Franco Zambonelli, Matthias Klusch, Robert Tolksdorf, 2013-11-27 As today s most complex computing environment the Internet confronts IT researchers system designers and application developers with completely new challenges and as a fascinating new computing paradigm agent technology has recently attracted broad interest and strong hopes for shaping the future information society Relating both the Internet and agents opens up a whole new range of advanced applications in vibrant subfields of information technology such as middleware mobile commerce e learning collaborative working and intelligent information services Many modern advanced systems are likely to exploit Internet agents and exploiting Internet agents mostly means dealing with coordination models and technologies of various sorts This monograph like anthology is the first systematic guide to models and enabling technologies for the coordination of intelligent agents on the Internet and respective applications Declarative Agent Languages and Technologies Joao Leite, Andrea Omicini, Leon Sterling, Paolo Torroni, 2004-07-22 Agent metaphors and technologies are increasingly adopted to harness and g ernthecomplexityoftoday ssystems Asaconsequence thegrowingcomplexity of agent systems calls for models and technologies that promote system p dictability and enable feature discovery and veri cation Formal methods and declarative technologies have recently attracted a growing interest as a means to address such issues The aim of the DALT 2003 workshop was two fold On the one hand we wanted to foster a discussion forum to export such techniques into the broader communityofagentresearchersandpractitioners Ontheotherhand wewanted to bring in the issues of real world complex and possibly large scale agent s tem design in the perspective of formal methods and declarative technologies Thanks to the very high quality of our program committee we managed to put together a rich program including three technical sessions and two panel sessions TheUseofDeclarativeProgrammingforAgent OrientedSoftwareEn neering moderated by Leon Sterling and Andrea Omicini and Declarative and Logic Based Technology for Agent Reasoning and Interactions organized and moderated by Rafael Bordini and Wiebe van der Hoek with the participation of ve invited panelists This bookcontainstherevisedandextendedversionsofthe paperspresented at the workshop as well as three invited contributions by leading researchers of the eld It is composed of three parts i software engineering and multi agent system prototyping ii agent reasoning BDI logics and extensions and iii social aspects of multi agent systems **Ouality Assurance** of Agent-Based and Self-Managed Systems Reiner Dumke, Steffen Mencke, Cornelius Wille, 2009-08-26 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 **International Journal of** Computers & Applications ,2003 Languages, Methodologies, and Development Tools for Multi-Agent Systems Mehdi Dastani, Amal El Fallah Seghrouchni, Joao Leite, Paolo Torroni, 2010-06-09 This book contains the proceedings of the Second

International Workshop on Languages Methodologies and Development Tools for Multi agent Systems LADS 2009 which took place during September 7 9 2009 in Turin Italy As in its 2007 edition this workshop was a part of MALLOW a federation of workshops on Multi Agent Logics Languages and Organizations The LADS 2009 workshop addressed both theoretical and practical issues related to developing and deploying multi agent systems It constituted a rich forum where leading researchers from both academia and industry could share their experiencesonformalapproaches programminglanguages methodologies tools andtechniques supporting the developmentanddeploymentof multi agent systems

Fromatheoreticalpointofview LADS2009aimedataddressingissues related to theories methodologies models and approaches that are needed to facilitate the development of multi agent systems ensuring their predictability andveri cation

Formaldeclarativemodelsandapproacheshavethe potentialof o ering solutions for the speci cation and design of multi agent systems From a practical point of view LADS 2009 aimed at stimulating research and d cussion on how multi agent system speci cations and designs can be e ectively implemented and tested This book is the result of a strict selection and review process From 14 papers originally submitted to LADS 2009 and after 2 rounds of reviews we selected 10 high quality papers covering important topics related to multi agent programming technology such as agent architectures programming languages andmethodologies socialinteractionmodels developmenttoolsandapplications of multi agent systems

Environments for Multi-Agent Systems Danny Weyns, H. Van Dyke Parunak, Fabien Michel, 2005-02-18 The modern eld of multiagent systems has developed from two main lines of earlier research Its practitioners generally regard it as a form of arti cial intelligence AI Some of its earliest work was reported in a series of workshops in the US dating from 1980 revealinglyentitled DistributedArti cialIntelligence and pioneers often quoted a statement attributed to Nils Nilsson that all AI is distributed The locus of classical AI was what happens in the head of a single agent and much MAS research re ects this heritage with its emphasis on detailed modeling of the mental state and processes of individual agents From this perspective intelligenceisultimatelythepurviewofasinglemind thoughitcanbeampli ed by appropriate interactions with other minds These interactions are typically mediated by structured protocols of various sorts modeled on human convertional behavior But the modern eld of MAS was not born of a single parent A few searchershavepersistentlyadvocatedideasfromthe eldofarti ciallife ALife These scientists were impressed by the complex adaptive behaviors of commu ties of animals often extremely simple animals such as insects or even micro ganisms. The computational models on which they drew were often created by biologists who used them not to solve practical engineering problems but to test their hypotheses about the mechanisms used by natural systems In the ar cial life model intelligence need not reside in a single agent but emerges at the level of the community from the nonlinear interactions among agents cause the individual agents are often subcognitive their interactions cannot be modeled by protocols that presume linguistic competence **Cooperative Information Agents VII** Matthias Klusch, Sascha Ossowski, Andrea Omicini, Heimo Laamanen, 2003-08-14 These are the proceedings of the 7th

International Workshop on Cooperative Information Agents CIA 2003 held at the Sonera Conference Center in H sinki Finland August 27 29 2003 It was co located with the 4th Agentcities Information Days One key challenge of developing advanced agent based information systems is to balance the autonomy of networked data and knowledge sources with the pot tial payo of leveraging them by the appropriate use of intelligent information agents on the Internet An information agent is a computational software entity that has access to one or multiple heterogeneous and distributed data and inf mation sources proactively searches for and maintains relevant information on behalfofitshumanusersorotheragents preferablyjust in time Inotherwords it is managing and overcoming the disculties associated with information oveload in the open and exponentially growing Internet and Web Depending on the application and tasks at hand information agents may collaborate in open n worked data and information environments to provide added value to a variety of applications in di erent domains Thus research and development of inf mation agents is inherently interdisciplinary. It requires expertise in information retrieval arti cial intelligence database systems human computer interaction and Internet and Web technology Initiated in 1997 the purpose of the annual international workshop series on cooperative information agents CIA istoprovideaninterdisciplinary forum for researchers software developers and managers to get informed about present and discuss the latest high quality results in advancements of the oryand practice in information agent technology for the Internet and Web Each event of this renowned series attempts to capture the intrinsic interdisciplinary nature of this research area by calling for contributions from di erent research communities and by promoting open and informative discussions on all related topics Coordination Languages and Models, 2004

Internet-Based Workflow Management Dan C. Marinescu,2002-04-24 Internet based business transactions can be broken down into a series of independent steps This workflow often involves tools from an array of fields such as network modeling scheduling distributed systems artificial intelligence software agents and Java This book serves as a single comprehensive resource for IT practitioners and students that covers all these vital aspects of workflow management

Engineering Societies in the Agents World ,2003 Coordination Among Autonomous Planners Jeroen Valk,2005

Multiagent System Technologies ,2004 Software Engineering for Multi-agent Systems ... ,2004 ACM

Transactions on Programming Languages and Systems Association for Computing Machinery, 2000 The Semantic Web: Research and Applications , 2005 Innovative Internet Computing Systems , 2002 Agent-oriented Software Engineering ... , 2005 Parallel Computing Technologies , 2001 First IEEE/ACM International Symposium on Cluster Computing and the Grid Rajkumar Buyya, George M. Mohay, Paul Roe, 2001 Annotation This collection of 85 papers from the May 2001 symposium presents developments in cluster and grid computing that enable applications to share resources and content across the Internet in a peer to peer manner The main areas of discussion are component and agent approaches input output and databases message passing scheduling and distributed shared memory Some of the topics are design of a

generic platform for scalable cluster computing based on middleware techniques early experiences with the EGrid testbed software environments for cluster based display systems the performance of CORBA for distributed and grid applications sabotage tolerance mechanisms for volunteer computing systems and a tool kit for the simulation of application scheduling No subject index c Book News Inc

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