Agent Communication

- Central to the Agent oriented paradigm
- Used to convey across knowledge and information.
- Enables
  - Co-ordination
  - Co-operation
  - Negotiation

Agent Communication

Ken Huang,Chris Hughes

Agent Communication:

   Agent Communication Rogier M. van Eijk,Marc-Philippe Huget,Frank Dignum,2005-02-07 In this book we present a collection of papers around the topic of agent com nication The communication between agents has been one of the major topics of research in multiagent systems The current work can therefore build on a number of previous Workshops of which the proceedings have been published in earlier volumes in this series The basis of this collection is formed by the accepted submissions of the Workshop on Agent Communication held in c junction with the AAMAS Conference in July 2004 in New York The workshop received 26 submissions of which 14 were selected for publication in this v ume Besides the high quality workshop papers we noticed that many papers on agent communication found their way to the main conference We decided therefore to invite a number of authors to revise and extend their papers from this conference and to combine them with the workshop papers We believe that the current collection comprises a very good and quite complete overview of the state of the art in this area of research and gives a good indication of the topics that are of major interest at the moment The papers can roughly be divided over the following ve themes social commitments multiparty communication content languages dialogues and conversations speech acts Although these themes are of course not mutually exclusive they indicate some main directions of research We therefore have arranged the papers in the book according to the topics indicated above

   Communication in Multiagent Systems Marc-Phillipe Huget,2003-06-25 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 *Agent Communication II* Frank Dignum,Rogier van Eijk,Roberto Flores,2008-08-19 This book constitutes the thoroughly refereed post proceedings of the two International Workshops on Agent Communication AC 2005 and AC 2006 held in Utrecht Netherlands in July 2005 and in Hakodate Japan in May 2006 as associated events of AAMAS 2005 2006 The 20 revised full papers cover semantics of agent communication commitments in agent communication protocols and strategies as well as reliability and overhearing

   Advances in Agent Communication Frank Dignum,2004-01-30 InthisbookwepresentacollectionofpapersaroundthetopicofAgentCom nication The communication between agents has been one of the major topics of research in multi agent systems The current work can therefore build on a number of previous workshops the proceedings of which have been published in earlier volumes in this series The basis of this collection is the

accepted s missions of the workshop on Agent Communication Languages which was held in conjunction with the AAMAS conference in July 2003 in Melbourne The workshop received 15 submissions of which 12 were selected for publication in this volume Although the number of submissions was less than expected for an important area like Agent Communication there is no reason to worry that this area does not get enough attention from the agent community First of all the 12 selected papers are all of high quality The high acceptance rate is only due to this high quality and not to the necessity to select a certain number of papers Besides the high quality workshop papers we noticed that many papers on Agent Communication found their way to the main conference We decided therefore to invite a number of authors to revise and extend their papers from this conference and to combine them with the workshop papers We believe that the current collection comprises a very good and quite complete overview of the state of the art in this area of research and gives a good indication of the topics that are of major interest at the moment **Issues in Agent Communication** Frank Dignum,Mark Greaves,2006-12-31 A first attempt to develop a standardized agent communication language ACL resulted in KQML probably the most widely used such language However a lot of technical work remains to be done Even worse so far there seems to be little consensus on the basics of agent communication and there is no clear understanding of the semantics of individual speech acts or even of the basic concepts that should be used to define the semantics This book documents two workshops on communication in MAS held in 1999 one on Specifying and Implementing Conversation Policies SICP and the other in Agent Communication Languages and presents the current state of the art of research in the field A detailed introductory overview by the volume editors highlights a number of issues that play an important role in agent communication Issues in Agent Communication Frank Dignum,Mark Greaves,2000-09-29 A first attempt to develop a standardized agent communication language ACL resulted in KQML probably the most widely used such language However a lot of technical work remains to be done Even worse so far there seems to be little consensus on the basics of agent communication and there is no clear understanding of the semantics of individual speech acts or even of the basic concepts that should be used to define the semantics This book documents two workshops on communication in MAS held in 1999 one on Specifying and Implementing Conversation Policies SICP and the other in Agent Communication Languages and presents the current state of the art of research in the field A detailed introductory overview by the volume editors highlights a number of issues that play an important role in agent communication Argumentation in Multi-Agent Systems Iyad Rahwan,Pavlos Moraitis,Chris Reed,2005-02-09 The theory of argumentation is a rich interdisciplinary area of research involving philosophy communications studies linguistics psychology and logics Its techniques have found a wide range of applications in both theoretical and practical branches of artificial intelligence and computer science Multi agent systems theory has picked up argumentation inspired approaches and specifically argumentation theoretic results from many different areas Researchers in argumentation and multi agent systems are currently enjoying a unique opportunity to integrate the various understandings of argument into a coherent and

core part of the functioning of autonomous computational systems This book originates from the First International Workshop on Argumentation in Multi Agent Systems ArgMAS 2004 held in New York NY USA in July 2004 Besides 12 selected revised full papers taken from the workshop 4 additional papers by key people in the area round off overall coverage of the relevant topics The papers address the following main topics foundations of dialogues belief revision persuasion and deliberation negotiation and strategic issues *Foundations and Applications of Multi-Agent Systems* Mark d'Inverno,Michael Luck,Michael Fisher,Christ Preist,2003-08-02 This book presents revised full versions of papers contributed to UK Workshops on Multi Agent Systems UKMAS during 1996 and 2000 From the early days of MAS research the UK community has been a particularly productive one with numerous key contributions The 15 papers by internationally reputed researchers deal with various aspects of agent technology with a certain emphasis on foundational issues in multi agent systems Architectural Design of Multi-Agent Systems: Technologies and Techniques Lin, Hong,2007-05-31 This book is a compilation of advanced research results in architecture and modeling issues of multi agent systems It serves as a reference for research on system models architectural design languages methods and reasoning module interface design and design issues Provided by publisher *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 *Programming Multi-Agent Systems* Rafael H. Bordini,Mehdi Dastani,Amal El Fallah Seghrouchni,2005-02-14 **Intelligent Agents II - Agent Theories, Architectures, and Languages** Michael J. Wooldridge,Jörg P. Müller,Milind Tambe,1996 This book is based on the second International Workshop on Agent Theories Architectures and Languages held in conjunction with the

International Joint Conference on Artificial Intelligence IJCAI 95 in Montreal Canada in August 1995 The 26 papers are revised final versions of the workshop presentations selected from a total of 54 submissions also included is a comprehensive introduction a detailed bibliography listing 355 relevant publications and a subject index The book is structured into seven sections reflecting the most current major directions in agent related research Together with its predecessor Intelligent Agents published as volume 890 in the LNAI series this book provides a timely and comprehensive state of the art report

Agent and Multi-Agent Systems: Technologies and Applications Piotr Jedrzejowicz,Ngoc Thanh Nguyen,Robert J. Howlett,Lakhmi C. Jain,2010-06-09 This book constitutes the proceedings of the 4th KES International Symposium on Agent and Multi Agent Systems KES AMSTA 2010 held in June 2010 in Gdynia Poland The discussed field is concerned with the development and analysis of AI based problem solving and control architectures for both single agent and multiple agent systems Only 83 papers were selected for publication in both volumes which focus on topics such as Multi Agent Systems Design and Implementation Negotiations and Social Issues Web Services and Semantic Web Cooperation Coordination and Teamwork Agent Based Modeling Simulation and Decision Making Multi Agent Applications Management and e Business Mobile Agents and Robots and Machine Learning   **Intelligent Agents VIII** John-Jules C. Meyer,Milind Tambe,2003-08-01 This volume is the eighth in the Intelligent Agents series associated with the ATAL workshops These workshops on Agent Theories Architectures and L guages have established themselves as a tradition and play the role of small but internationally well known conferences on the subject where besides theory per se also integration of theory and practice is in focus Speci cally ATAL dresses issues of theories of agency software architectures for intelligent agents methodologies and programming languages for realizing agents and software tools for applying and evaluating agent based systems ATAL 2001 featured two special tracks in which both the more theoretical formal and the more practical aspects were present viz Formal Theories of Negotiation organized by Frank Dignum and Agents for Hand Held Mobile or Embedded Devices organized by Tim Finin There was also an extra session on RoboCup Rescue organized and presented by Satoshi Tadokoro and Ranjit Nair ATAL 2001 attracted 68 papers from over 20 countries all over the world of which 30 were selected for presentation at the workshop and publication in this volume We invited two outstanding speakers Fausto Giunchiglia Trento Italy and Tom Dean Brown USA   Intelligent Agents for Telecommunication Applications Sahin Albayrak,1999-09-15 This book constitutes the refereed proceedings of the Third International Workshop on Intelligent Agents for Telecommunication Applications IATA 99 held as an IJCAI 99 Workshop in Stockholm Sweden in August 1999 The 14 revised full papers presented were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on architectures tools and languages network management electronic commerce and telecommunication services   **Securing AI Agents** Ken Huang,Chris Hughes,2025-09-30 This book focuses on agentic AI security providing a comprehensive guide to the theoretical foundations and practical techniques required to secure the increasingly prevalent AI agent systems It examines the security

challenges posed by multi agent environments and presents real world examples of open source frameworks and commercial solutions to mitigate these risks It answers key questions including how to conduct threat modeling for agentic AI systems how to secure communication and identity within multi agent environments and how to leverage open source frameworks and commercial solutions for effective security The book features dedicated chapters on agentic AI threat modeling identity security communication security in MAS Multi Agent Systems red teaming AI agents life cycle security capability and security benchmarking using GAIA and AIR frameworks Reinforcement Learning RL and security secure agentic AI deployment strategies innovative open source security frameworks Cloud Security Alliance and OWASP examples and case studies of commercial startups addressing agentic AI security challenges It also explores the unique threat landscape of agentic AI the challenges of securing communication and identity within multi agent systems and the practical application of security benchmarks and open source frameworks As such the book equips cybersecurity professionals AI developers and researchers with the knowledge and tools to mitigate the unique security risks associated with autonomous agents and multi agent systems   Agent Communication Rogier M. van Eijk,Marc-Philippe Huget,Frank Dignum,2005-02-23 In this book we present a collection of papers around the topic of agent com nication The communication between agents has been one of the major topics of research in multiagent systems The current work can therefore build on a number of previous Workshops of which the proceedings have been published in earlier volumes in this series The basis of this collection is formed by the accepted submissions of the Workshop on Agent Communication held in c junction with the AAMAS Conference in July 2004 in New York The workshop received 26 submissions of which 14 were selected for publication in this v ume Besides the high quality workshop papers we noticed that many papers on agent communication found their way to the main conference We decided therefore to invite a number of authors to revise and extend their papers from this conference and to combine them with the workshop papers We believe that the current collection comprises a very good and quite complete overview of the state of the art in this area of research and gives a good indication of the topics that are of major interest at the moment The papers can roughly be divided over the following ve themes social commitments multiparty communication content languages dialogues and conversations speech acts Although these themes are of course not mutually exclusive they indicate some main directions of research We therefore have arranged the papers in the book according to the topics indicated above **Ontologies for Agents: Theory and Experiences** Valentina Tamma,Stephen Cranefield,Timothy W. Finin,Steven Willmott,2006-03-30 There is a growing interest in the use of ontologies for multi agent system app cations On the one hand the agent paradigm is successfully employed in those applications where autonomous loosely coupled heterogeneous and distributed systems need to interoperate in order to achieve a common goal On the other hand ontologies have established themselves as a powerful tool to enable kno edge sharing and a growing number of applications have bene ted from the use of ontologies as a means to achieve semantic interoperability among heterogeneous distributed systems In principle

ontologies and agents are a match made in heaven that has failed to happen What makes a simple piece of software an agent is its ability to communicate in a social environment to make autonomous decisions and to be proactive on behalf of its user Communication ultimately depends on und standing the goals preferences and constraints posed by the user Autonomy is theabilitytoperformataskwithlittleornouserintervention whileproactiveness involves acting autonomously with no need for user prompting Communication but also autonomy and proactiveness depend on knowledge The ability to c municate depends on understanding the syntax terms and structure and the semantics of a language Ontologies provide the terms used to describe a domain and the semantics associated with them In addition ontologies are often comp mented by some logical rules that constrain the meaning assigned to the terms These constraints are represented by inference rules that can be used by agents to perform the reasoning on which autonomy and proactiveness are based *Cooperative Information Agents IV - The Future of Information Agents in Cyberspace* Matthias Klusch,Larry Kerschberg,2004-02-12 These arethe proceedingsof the Fourth InternationalWorkshopon Cooperative Information Agents held in Boston Massachusetts USA July 7 9 2000 Cooperative information agent research and development focused originally onaccessingmultiple heterogeneous anddistributedinformationsources Ga ingaccesstothesesystems throughInternetsearchengines applicationprogram interfaces wrappers and web based screens has been an important focus of operative intelligent agents Research has also focused on the integration of this information into a coherent model that combined data and knowledge from the multiple sources Finally this information is disseminated to a wide audience giving rise to issues such as data quality information pedigree source reliability information security personal privacy and information value Research in operative information agents has expanded to include agent negotiation agent communities agent mobility as well as agent collaboration for information d covery in constrained environments TheinterdisciplinaryCIAworkshopseriesencompassesa widevarietyoft ics dealing with cooperative information agents All workshop proceedings have been published by Springer as Lecture Notes in Arti cial Intelligence Volumes 1202 1997 1435 1998 and 1652 1999 respectively This year the theme of the CIA workshop was The Future of Information Agents in Cyberspace a very tting topic as the use of agents for information gathering negotiation correlation fusion and dissemination becomes ever more prevalent We noted a marked trend in CIA 2000 towards addressing issues related to communities of agents that 1 negotiate for information resources 2 build robust ontologies to enhance search capabilities 3 communicate for planning and problem so ing 4 learn and evolve based on their experiences and 5 assume increasing degrees of autonomy in the control of complex systems **Digital Information Processing and Communications, Part II** Vaclav Snasael,Jan Platos,Eyas El-Qawasmeh,2011-06-28 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

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