

E. von Martial

Coordinating Plans of Autonomous Agents



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Coordinating Plans Of Autonomous Agents Lecture Notes In Computer Science

Matthias Klusch



Coordinating Plans Of Autonomous Agents Lecture Notes In Computer Science:

Coordinating Plans of Autonomous Agents Frank v. Martial, 1992-06-24 This book deals with an important topic in distributed AI the coordination of autonomous agents activities It provides a framework for modelling agents with planning and communicative competence Important issues in the book are How to recognize and reconcile conflicting intentions among a collection of agents How to recognize and take advantage of favorable interactions How to enable individual agents to represent and reason about the actions plans and knowledge of other agents in order to coordinate with them When to call a set of plans coordinated and what operations are possible to transform uncoordinated plans into coordinated ones How to enable agents to communicate and interact what communication languages or protocols to use and what and when to communicate The book is clearly written with many examples and background material

Engineering Societies in the Agents World IV Andrea Omicini, 2004-06-22 This book constitutes the thoroughly refereed post proceedings of the 4th International Workshop on Engineering Societies in the Agents World ESAW 2004 held in London UK in October 2004 The 23 revised full papers presented were carefully selected during two rounds of reviewing and improvement for inclusion in the book also included are 2 invited papers by leading researchers in order to round of the coverage of the relevant topics The papers are organized in the following topical sections multidisciplinary for agent societies coordination organization and security of agent societies abstractions methodologies and tools for engineering agent societies applications of agent societies

Intelligent Agents VII. Agent Theories Architectures and Languages Cristiano Castelfranchi, Yves Lesperance, 2003-07-31 Intelligent agents are one of the most important developments in computer science of the past decade Agents are of interest in many important application areas ranging from human computer interaction to industrial process control The ATAL workshop series aims to bring together researchers interested in the core micro aspects of agent technology Speci cally ATAL addresses issues such as theories of agency software architectures for intelligent agents methodologies and programming languages for r lizing agents and software tools for applying and evaluating agent systems One of the strengths of the ATAL workshop series is its emphasis on the synergies between theories languages architectures infrastructures methodologies and formal methods This year s workshop continued the ATAL trend of attracting a large number of high quality submissions In more detail 71 papers were submitted to the ATAL 2000 workshop from 21 countries After stringent reviewing 22 papers were accepted for publication and appear in these proceedings As with previous workshops in the series we chose to emphasize what we perceive as important new themes in agent research This year s themes were both associated with the fact that the technology of intelligent agents and multi agent systems is beginning to migrate from research labs to software engineering centers As agents are deployed in applications such as electronic commerce and start to take over responsibilities for their human users techniques for controlling their autonomy become crucial As well the availability of tools that facilitate the design and implementation of agent systems becomes an important

factor in how rapidly the technology will achieve widespread use

Cooperative Knowledge Processing Stefan Kirn, Gregory O'Hare, 2012-12-06 In the light of the challenges that face today's organizations there is a growing recognition that future market success and long term survival of enterprises will increasingly depend upon the effective usage of information technology. Of late a new generation of terminology has emerged to describe enterprises. This terminology draws heavily upon the virtual concept: virtual reality, virtual organization, virtual working environment and indeed virtual product. However, developing computerized organisations for the 21st century demands serious thought with regard to the judicious integration of organizational theory, design and practice with research tools and methods from within information processing technology. Within this book we approach this aim from the perspective of a radically decentralized, possibly virtual enterprise. We assume that organizations are becoming increasingly process orientated rather than adhering to the former, more traditional organizational structures based upon task oriented models. This approach has proved illuminating in that, due to the inherent autonomy of organizational subunits, any approach to coordinating decentralized activities including workflows and business processes necessitates a cooperative style of problem solving. This book introduces the reader to a stimulating new field of interdisciplinary research in cooperative problem solving. In Chapter 1 Kim presents a view of three central disciplines, namely those of Organizational Theory, Computer Supported Cooperative Work (CSCW) and Distributed Artificial Intelligence (DAI). The applications given here demonstrate how future enterprises will benefit from recent advances in the technological arena of cooperative knowledge processing.

Multi-Agent System Engineering Francisco J. Garijo, Magnus Boman, 2007-07-23 In the ten years since the first MAAMAW was held in 1989 at King's College Cambridge the field of Multi-Agent Systems (MAS) has flourished. It has attracted an increasing amount of theoretical and applied research. During this decade important efforts have been made to establish the scientific and technical foundations of MAS. MAAMAW publications are testimony to the progress achieved in key areas such as agent modelling and reasoning, multi-agent interaction and communication and multi-agent organisation and social structure. Research results have covered a wide range of inter-related topics in each area including agent architectures, reasoning models, logics, conflict resolution, negotiation, resource allocation, load balancing, learning, social behaviour and interaction languages and protocols, inter-agent and agent-human communication, social models, agent roles, norms and social laws and static and dynamic organisational structures. The feasibility and the viability of the proposed models and techniques have been demonstrated through MAS applications in heterogeneous domains including electronic commerce, co-operative work, telecommunications, social and biological systems, robotics, office and business automation, public administration, social simulations and banking. As the applicability of the technology became understood the multi-agent paradigm has been progressively accepted by product managers and system developers giving rise to a considerable amount of business expectation from industry. These expectations do not rest on the concept or metaphor of agent but on the development of MAS useful in an industrial setting with real time systems.

presenting the biggest challenge **Advances in Artificial Intelligence - IBERAMIA 2002** Francisco J. Garijo, 2002-10-30 This book constitutes the refereed proceedings of the 8th Ibero American Conference on Artificial Intelligence IBERAMIA 2002 held in Seville Spain in November 2002 The 97 revised full papers presented were carefully reviewed and selected from a total of 345 submissions The papers are organized in topical sections on knowledge representation and reasoning machine learning uncertainty and fuzzy systems genetic algorithms neural nets distributed artificial intelligence and multi agent systems natural language processing intelligent tutoring systems control and real time robotics and computer vision **Intelligent Agents III. Agent Theories, Architectures, and Languages** Michael J. Wooldridge, Nick Jennings, 1997-01-22 Intelligent agents are computer systems that are capable of flexible autonomous action in dynamic typically multi agent domains Over the past few years the computer science community has begun to recognise that the technology of intelligent agents provides the key to solving a range of complex software application problems for which traditional software engineering tools and techniques offer no solution This book the third in a series represents the state of the art in the science of agent systems It is based on papers presented at the 3rd workshop on Agent Theories Architectures and Languages ATAL 96 held in conjunction with the European Conference on Artificial Intelligence ECAI 96 in Budapest Hungary in August 1996 It is essential reading for anyone interested in this vital new technology **Intelligent Information Agents** Matthias Klusch, 2003-03-05 This book presents 10 chapters on various aspects of intelligent information agents contributed by members of the respective AgentLink special interest group The papers are organized in three parts on agent based information systems adaptive information agents and coordination of information agents Also included are a comprehensive introduction and surveys for each of the three parts *Production and Manufacturing System Management: Coordination Approaches and Multi-Site Planning* Renna, Paolo, 2012-09-30 This book presents relevant theoretical frameworks and most recent research findings in this area providing significant theories for research students and scholars to carry out their continuous research as well as practitioners who aim to improve upon their understanding of distributed production planning **Distributed Computing and Artificial Intelligence, 14th International Conference** Sigeru Omatu, Sara Rodríguez, Gabriel Villarrubia, Pedro Faria, Paweł Sitek, Javier Prieto, 2017-06-19 The 14th International Symposium on Distributed Computing and Artificial Intelligence 2017 DCAI 2017 provided a forum for presenting the application of innovative techniques to study and solve complex problems The exchange of ideas between scientists and technicians from both the academic and industrial sector is essential to advancing the development of systems that can meet the ever growing demands of today s society The book brings together past experience current work and promising future trends in distributed computing artificial intelligence and their applications to efficiently solve real world problems It combines contributions in well established and evolving areas of research including the content of the DCAI 17 Special Sessions which focused on multi disciplinary and transversal aspects such as AI driven methods for multimodal networks and

processes modeling and secure management towards smart buildings and smart grids The symposium was jointly organized by the Polytechnic of Porto the Osaka Institute of Technology and the University of Salamanca The latest event was held in Porto Portugal from 21st to 23rd June 2017

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