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Argumentation In Multi Agent Systems

years, argumentation has been gaining increasing importance in multi-agent systems, mainly as a vehicle for facilitating "rational interaction" (i.e., interaction which involves the giving and receiving of reasons). This is because argumentation provides tools

ArgMAS: Argumentation in Multi-Agent Systems

This book constitutes the thoroughly reviewed post-proceedings of the 8th International Workshop on Argumentation in Multi-Agent Systems, ArgMas 2011, held in Taipei, Taiwan in May 2011 in association with the 10th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2011). The 8 revised full papers taken from ArgMAS 2011. Also included are 5 invited papers based on presentations on argumentation at the AAMAS 2011 main conference.

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During the last decade Argumentation has been gaining importance. within Artificial. Intelligence

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especially in multi agent systems. Argumentation is a powerful mechanism for modelling the internal reasoning of an agent. It also provides tools for analysing, designing and implementing sophisticated forms of interaction among rational agents,

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During the last decade Argumentation has been gaining importance. within Artificial. Intelligence especially in multi agent systems. Argumentation is a powerful mechanism for modelling the internal reasoning of an agent. It also provides tools for analysing, designing and implementing sophisticated forms of interaction among rational agents, thus making important contributions to the theory and practice of.

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Argumentation provides tools for designing, implementing and analyzing sophisticated forms of interaction among rational agents. It has made a solid contribution to the practice of multiagent dialogue

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In this paper, we consider a multi-agent system where agents perform argumentation activity on the basis of knowledge both stated in their knowledge-bases and acquired from other agents.

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This dualistic approach to argumentation has carried over its use in multi-agent systems (Rahwan, 2006): argumentation is studied, and used, to model agent reasoning and structure communication between agents. Argumentation has been used in belief revision for intelligent agents (Paglieri & Castelfranchi, 2006) and collaborative, multi-agent planning (Pardo, Pajares, Onaindia, Godo, & Dellunde, 2011). For communication between agents, argumentation has played a crucial role in specifying ...

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Coordinating agents in open environments is a difficult problem that has engaged multi-agent systems researchers on three broad fronts: (1) argumentation [1] (the basis for negotiation between ...

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## Argumentation in Multi-Agent Systems | Request PDF

This workshop will focus on the concepts, theories, methodologies, and applications of computational models of argumentation in building autonomous agents and multi-agent systems. Argumentation can be abstractly defined as the formal interaction of different arguments for and against some conclusion (eg, a proposition, an action intention, a preference, etc.).

## Argumentation in Multi-Agent Systems (ArgMAS 2010)

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## Argumentation in Multi-Agent Systems: Fifth International ...

In the field of multi-agent systems, argument-based techniques can be used to determine reasoning of autonomous agents, or to facilitate multi-agent interaction.

This book constitutes the thoroughly refereed proceedings of the 6th International Workshop on Argumentation in Multi-Agent Systems, held in Budapest, Hungary, in May 2009, in association with the 8th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2009). The 18 revised full papers were carefully reviewed and selected from numerous submissions and are organized in four topical sections on practical reasoning and argument about action; persuasion and negotiation; argumentation theory; and applications and emotions.

Here are the latest developments in the growing area of research at the interface of argumentation theory and multiagent systems. Argumentation provides tools for designing, implementing and analyzing sophisticated forms of interaction among rational agents.

This book constitutes the thoroughly refereed post-proceedings of the Second International Workshop on Argumentation in Multi-Agent Systems held in Utrecht, Netherlands in July 2005 as an associated event

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of AAMAS 2005, the main international conference on autonomous agents and multi-agent systems. The 10 revised full papers presented together with an invited paper were carefully reviewed and selected from 17 submissions. The papers are organized in topical sections on foundations, negotiation, protocols, deliberation and coalition formation, and consensus formation.

During the last decade Argumentation has been gaining importance within Artificial Intelligence especially in multi agent systems. Argumentation is a powerful mechanism for modelling the internal reasoning of an agent. It also provides tools for analysing, designing and implementing sophisticated forms of interaction among rational agents, thus making important contributions to the theory and practice of multiagent dialogues. Application domains include: nonmonotonic reasoning, legal disputes, business negotiation, labor disputes, team formation, scientific inquiry, deliberative democracy, ontology reconciliation, risk analysis, scheduling, and logistics. This volume presents the latest developments in this area at the interface of argumentation theory and multi agent systems. The 10 revised full papers presented together with 3 invited papers from the AAMAS 2008 conference were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on argument-based reasoning, argumentation and dialogue, as well as strategic and pragmatic issues.

This book constitutes the thoroughly reviewed post-proceedings of the 8th International Workshop on Argumentation in Multi-Agent Systems, ArgMas 2011, held in Taipei, Taiwan in May 2011 in association with the 10th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2011). The 8 revised full papers taken from ArgMAS 2011. Also included are 5 invited papers based on presentations on argumentation at the AAMAS 2011 main conference. All together the 13 papers included in the book give a representative overview on current research on argumentation in multi-agent systems. The papers are listed alphabetically by first author within three thematic topics: foundations and theory; argumentation and dialogue; and applications.

Agent technology has generated lots of excitement in the past decade. Currently, multi-agent systems (MAS) composed of autonomous agents representing individuals or organizations and capable of reaching mutually beneficial agreements through negotiation and argumentation are becoming increasingly important and pervasive. Research on both automated negotiation and argumentation in MAS has a vigorous, exciting tradition. However, efforts to integrate both areas have received only selective attention in the academia and the practitioner literature. A symbiotic relationship could significantly strengthen each area's progress and trigger new R&D challenges and prospects toward the advancement of automated negotiators and argumentation tools. Negotiation and Argumentation in Multi-Agent Systems presents the current state-of-the-art on the theory and practice of automated negotiation and argumentation in MAS. The eBook encourages the interaction between these two areas in data modelling and attempts to converge them toward mutual enhancement and synergism. Equally, the monograph brings together researchers and industry practitioners specialized in these areas to share R&D results and discuss existing and emerging theoretical and applied problems. This book is intended as a textbook for graduate courses and a reference book for researchers, advanced-level students in Computers Science, and IT practitioners.

The theory of argumentation is a rich, interdisciplinary area of research lying across philosophy, communication studies, linguistics, and psychology (at least). Its techniques and results have found a wide range of applications in both theoretical and practical branches of artificial intelligence and computer science. Several theories of argumentation with various semantics have been proposed in the literature. Multi-agent systems theory has picked up argument-inspired approaches and specifically argumentation-theoretic results from many different areas. The community of researchers in argumentation and multi-agent systems is currently presented with a unique opportunity to integrate the

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various understandings of argument into a coherent and core part of the functioning of autonomous computational systems. The benefits range from extended semantics of arguments construed as relationships between epistemic atoms, through conversation protocols for argumentation with serendipitous information exchange, to models of dialectical practical reasoning, both intra- and inter-agent (and a mixture of the two). In all these cases argumentation is used to structure knowledge representation, reasoning and agent interaction, and offers a potential means of better integrating these disparate problems.

Argumentation provides tools for designing, implementing and analyzing sophisticated forms of interaction among rational agents. It has made a solid contribution to the practice of multiagent dialogues. This book constitutes the thoroughly refereed post-proceedings of the Third International Workshop on Argumentation in Multi-Agent Systems held in Hakodate, Japan, as an associated event of AAMAS 2006, the main international conference on autonomous agents and multi-agent systems.

This book constitutes the thoroughly reviewed post-proceedings of the 7th International Workshop on Argumentation in Multi-Agent Systems, ArgMas 2010, held in Toronto, Canada in May 2010 as a satellite workshop of AAMAS 2010. The 14 revised full papers taken from ArgMAS 2010 were carefully reviewed and improved during two rounds of revision. Also included are 4 invited papers based on presentations on argumentation at the AAMAS 2010 main conference. All together the 18 papers included in the book give a representative overview on current research on argumentation in multi-agent systems. The papers are organized in topical sections on practical reasoning and argument about action, applications, and theoretical aspects.

Multi-Agent Systems are communities of problem-solving entities that can exhibit varying degrees of intelligence. They can perceive and react to their environment, they can have individual or joint goals, for which they can plan and execute actions. Work on such systems integrates many technologies and concepts in artificial intelligence and other areas of computing as well as other disciplines. The agent paradigm has become very popular and widely used in recent years, due to its applicability to a large range of domains, from search engines to educational aids, to electronic commerce and trade, e-procurement, recommendation systems, and ambient intelligence, to cite only some. Computational logic provides a well-defined, general, and rigorous framework for studying syntax, semantics and procedures for various capabilities and functionalities of individual agents, as well as interaction amongst agents in multi-agent systems. It also provides a well-defined and rigorous framework for implementations, environments, tools, and standards, and for linking together specification and verification of properties of individual agents and multi-agent systems.

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