

# Argumentation In Artificial Intelligence

Argumentation Methods for Artificial Intelligence in Law Douglas Walton 2005-09-30 During a recent visit to China to give an invited lecture on legal argumentation I was asked a question about conventional opinion in western countries. If legal reasoning is thought to be important by those both inside and outside the legal profession, why does there appear to be so little attention given to the study of legal logic? This was a hard question to answer. I had to admit there were no large or well-established centers of legal logic in North America that I could recommend as places to study. Going through customs in Vancouver, the customs officer asked what I had been doing in China. I told him I had been a speaker at a conference. He asked what the conference was on. I told him legal logic. He asked whether there was such a thing. He was trying to be funny, but I thought he had a good point. People will question whether there is such a thing as "legal logic", and some recent very prominent trials give the question some backing in the common opinion. But having thought over the question of why so little attention appears to be given to legal logic as a mainstream subject in western countries, I think I now have an answer. The answer is that we have been looking in the wrong place.

**Computational Models of Argument** Bart Verheij 2012 The subject of argumentation has been studied since ancient times, but it has seen major innovations since the advent of the computer age. Software already exists which can create and evaluate arguments in high-stake situations, such as medical diagnosis and criminal investigation; formal systems can help us appreciate the role of the value judgments which underlie opposing positions; and it is even possible to enter into argumentative dialogues as if playing a computer game. This book presents the 28 full papers, 17 short papers and a number of system demonstrations, described in an extended abstract, from the 2012

biennial Computational Models of Argument (COMMA) conference, held in Vienna, Austria. Papers by the invited speakers Professor Trevor Bench-Capon, Professor Erik Krabbe and Professor Keith Stenning are also included. This year, for the first time, COMMA invited the submission of papers for an innovative applications track, and those which were accepted for presentation are included in this volume. Argumentation can be studied from many angles, including the artificial, natural and theoretical systems perspective. Presentations at the 2012 conference addressed the subject from these perspectives and many more.

Logics in Artificial Intelligence 2004

**Argumentation Machines** C. Reed 2013-03-09 In the late 1990s, AI witnessed an increasing use of the term 'argumentation' within its bounds: in natural language processing, in user interface design, in logic programming and nonmonotonic reasoning, in AI's interface with the legal community, and in the newly emerging field of multi-agent systems. It seemed to me that many of these uses of argumentation were inspired by (of ten inspired) guesswork, and that a great majority of the AI community were unaware that there was a maturing, rich field of research in Argumentation Theory (and Critical Thinking and Informal Logic) that had been steadily rebuilding a scholarly approach to the area over the previous twenty years or so. Argumentation Theory, on its side; was developing theories and approaches that many in the field felt could have a role more widely in research and society, but were for the most part unaware that AI was one of the best candidates for such application.

**Argumentation in Artificial Intelligence** Iyad Rahwan 2009-06-13 Argumentation is all around us. Letters to the Editor often make points of consistency, and "Why" is one of the most frequent questions in language, asking for reasons behind behaviour. And argumentation is more than 'reasoning' in the recesses of single minds, since it crucially

involves interaction. It cements the coordinated social behaviour that has allowed us, in small bands of not particularly physically impressive primates, to dominate the planet, from the mammoth hunt all the way up to organized science. This volume puts argumentation on the map in the field of Artificial Intelligence. This theme has been coming for a while, and some famous pioneers are chapter authors, but we can now see a broader systematic area emerging in the sum of topics and results. As a logician, I find this intriguing, since I see AI as 'logic continued by other means', reminding us of broader views of what my discipline is about. Logic arose originally out of reflection on many-agent practices of disputation, in Greek Antiquity, but also in India and China. And logicians like me would like to return to this broader agenda of rational agency and intelligent interaction. Of course, Aristotle also gave us a formal systems methodology that deeply influenced the field, and eventually connected up happily with mathematical proof and foundations.

*Computational Models of Argument* Philippe Besnard 2008 Focuses on the aim to develop software tools to assist users in constructing and evaluating arguments and counterarguments and/or to develop automated systems for constructing and evaluating arguments and counterarguments. This book includes articles, which provide a snapshot of research questions in the area of computational models of argument.

**Computational Models of Argument** Francesca Toni 2022-09-15 Argumentation has traditionally been studied across a number of fields, notably philosophy, cognitive science, linguistics and jurisprudence. The study of computational models of argumentation is a more recent endeavor, bringing together researchers from traditional fields and computer science and engineering within a rich, interdisciplinary matrix. Computational models of argumentation have been identified and used since the 1980s, and more recently an important role for argumentation in leading to principled decisions has emerged in several settings. This book presents the proceedings of COMMA 2022 the 9th International Conference on Computational Models of Argument, held in Cardiff, Wales, United Kingdom, during 14 - 16 September 2022. The book contains 27 regular papers and 16 demo papers from a total of 75

submissions, as well as 3 invited talks from Prof Paul Dunne (University of Liverpool), Prof Iryna Gurevych (TU Darmstadt), and Prof Antonis Kakas (University of Cyprus), which reflect the diverse nature of the field. Papers are a mix of theoretical and practical contributions; theoretical contributions include new formal models, the study of formal or computational properties of models, design for implemented systems and experimental research; practical papers include applications to law, machine learning and explainability. Abstract and structured accounts of argumentation are covered, as are relations between different accounts. Many papers focus on the evaluation of arguments or their conclusions given a body of arguments, with a continuation of a recent trend to study gradual or probabilistic notions of evaluation. The book offers an overview of recent and current research and will be of interest to all those working with computational models of argumentation.

**Proceedings of the First Annual National Conference on Artificial Intelligence** 1980

**Argumentation in Multi-Agent Systems** Nicolas Maudet 2007-11-04 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.

*Argumentation in Multi-Agent Systems* Simon D. Parsons 2006-07-25 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 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.

**The Computational Metaphor and Artificial Intelligence** David Martin West 1988

*Argumentation and Advocacy* 2005

**Computational Models of Argument** P.E. Dunne 2006-08-25

Argumentation is an important sub-discipline of Artificial Intelligence.

The process of interpreting and exploiting classical treatments of Argumentation Theory in effective computational terms has led to a rich interchange of ideas among researchers. This book offers an overview of the research issues and concerns within this field.

*Progress in Artificial Intelligence* 2001

*Algorithms for Computational Argumentation in Artificial Intelligence V.* Efstathiou 2011

*Proceedings of the Twenty-second AAI Conference on Artificial Intelligence* 2007

**Proceedings of the Conference** 1999

**Artificial Intelligence in Education, 1997** Ben Du Boulay 1997

*Advances in Artificial Intelligence* Canadian Society for Computational Studies of Intelligence. Conference 2005

*Eleventh International Conference on Artificial Intelligence and Law* 2007

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