

Introduction To Computational Models Of Argumentation

Jose Garrido

Computational Models of Argument H. Prakken, S. Bistarelli, F. Santini, 2020-09-25 The investigation of computational models of argument is a rich and fascinating interdisciplinary research field with two ultimate aims: the theoretical goal of understanding argumentation as a cognitive phenomenon by modeling it in computer programs, and the practical goal of supporting the development of computer-based systems able to engage in argumentation-related activities with human users or among themselves. The biennial International Conferences on Computational Models of Argument (COMMA) provide a dedicated forum for the presentation and discussion of the latest advancements in the field, and cover both basic research and innovative applications. This book presents the proceedings of COMMA 2020. Due to the Covid-19 pandemic, COMMA 2020 was held as an online event on the originally scheduled dates of 8 -11 September 2020, organised by the University of Perugia, Italy. The book includes 28 full papers and 13 short papers selected from a total of 78 submissions, the abstracts of 3 invited talks and 13 demonstration abstracts. The interdisciplinary nature of the field is reflected, and contributions cover both theory and practice. Theoretical contributions include new formal models, the study of formal or computational properties of models, designs for implemented systems and experimental research. Practical papers include applications to medicine, law and criminal investigation, chatbots and online product reviews. The argument-mining trend from previous COMMA's is continued, while an emerging trend this year is the use of argumentation for explainable AI. The book provided an overview of the latest work on computational models of argument, and will be of interest to all those working in the field.

Computational Models of Argument S. Modgil, K. Budzynska, J. Lawrence, 2018-09-06 In its classical form, the study of argumentation focuses on human-oriented uses of argument, such as whether an argument is legitimate or flawed, engagement in debate, or the rhetorical aspects of argumentation. In recent decades, however, the study of logic and computational models of argumentation has emerged as a growing sub-area of AI. This book presents the Seventh International Conference on Computational Models of Argument (COMMA'18), held in Warsaw, Poland, from 12 to 14 September 2018. Since its inception in 2006, the conference and its related activities have developed alongside the steady growth of interest in computational argumentation worldwide, and the selection of 25 full papers and 17 short papers, out of

a total of 70 submissions, and 15 demonstration abstracts included here reflect the broad multidisciplinary nature of argumentation and the increasing body of work which establishes the relevance of computational models to various disciplines and real world applications. Subjects covered include: algorithm development; innovative applications; argument mining, argumentation-based models of dialogue; abstract argument frameworks; and structured argumentation. Representing an overview of current developments in the field, this book will appeal to all those with an interest in computational models of argument.

Computational Models of Argument P. E. Dunne, 2006 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.

Computational Models of Argument P. Baroni, 2010 Presents papers from the Third Conference on Computational Models of Argument, held in September 2010 in Desanzano del Garda, Italy. Providing a view of this important research field, this book is of interest to those involved in the use and development of artificial intelligence systems.

Computational Models of Argument B. Verheij, S. Szeider, S. Woltran, 2012-09-04 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.

Computational Models of Argument P.E. Dunne, T.J.M. Bench-Capon, 2006-08-25 Argumentation has evolved from its original study primarily by philosophers to emerge in the last ten years as an important sub-discipline of Artificial Intelligence. There have been significant contributions resulting from this, including approaches to modelling and analysis of defeasible reasoning, formal bases for negotiation and dialogue processes in multiagent systems, and the use of argumentation theory in AI applications whose nature is not best described through traditional logics, e.g. legal reasoning,

evaluation of conflicting beliefs, etc. 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 from disciplines such as Philosophy, Linguistics, AI and Economics. While work over recent years has done much to consolidate diverse contributions to the field, many new concerns have been identified and form the basis of current research. The papers in this volume, presented as part of the 1st International Conference on Computational Model of Arguments (COMMA) in September 2006, give a valuable overview of on-going research issues and concerns within this field.

Computational Models of Argument P. Baroni, T.F. Gordon, T. Scheffler, 2016-09-02 Research into computational models of argument is a rich interdisciplinary field involving the study of natural, artificial and theoretical argumentation and requiring openness to interactions with a variety of disciplines, ranging from philosophy and cognitive science to formal logic and graph theory. The ultimate aim is to support the development of computer-based systems able to engage in argumentation-related activities, either with human users or among themselves. This book presents the proceedings of the sixth biennial International Conference on Computational Models of Argument (COMMA 2016), held in Potsdam, Germany, on 12- 16 September. The aim of the COMMA conferences is to bring together researchers interested in computational models of argument and the representation of argumentation structures in natural language texts, with special attention to contributions concerning emerging trends and the development of new connections with other areas. The book contains the 25 full papers, 17 short papers and 10 demonstration abstracts presented at the conference, together with 3 invited talks. Subjects covered include abstract, bipolar and structured argumentation, quantitative approaches and their connections with formalisms like Bayesian networks and fuzzy logic, multi-agent scenarios, algorithms and solvers, and mining arguments in text, dialogue, and social media. The book provides an overview of current research and developments in the field of computational models of argument, and will be essential reading for all those with an interest in the field.

Computational Models of Argument S. Parsons, N. Oren, C. Reed, 2014-09-10 Argumentation, which has long been a topic of study in philosophy, has become a well-established aspect of computing science in the last 20 years. This book presents the proceedings of the fifth conference on Computational Models of Argument (COMMA), held in Pitlochry, Scotland in September 2014. Work on argumentation is broad, but the COMMA community is distinguished by virtue of its focus on the computational and mathematical aspects of the subject. This focus aims to ensure that methods are sound – that they identify arguments that are correct in some sense – and provide an unambiguous specification for implementation; producing programs that reason in the correct way and building systems capable of natural argument or of recognizing argument. The book contains 24 long papers and 18 short papers, and the 21 demonstrations presented at the conference are represented in the proceedings either by an extended abstract or by association with another paper. The book will be of interest to all those whose work involves argumentation as it relates to artificial intelligence.

Computational Models of Argument F. Toni, S. Polberg, R. Booth, 2022-09-29 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.

Computational Models of Argument Philippe Besnard, Sylvie Doutre, Anthony Hunter, 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, 2014 Annotation Proceedings of COMMA 2014. Argumentation, which has long been a topic of study in philosophy, has become a well-established aspect of computing science in the last 20 years. This book presents the proceedings of the fifth conference on Computational Models of Argument COMMA, held in Pitlochry, Scotland in September 2014. Work on argumentation is broad, but the COMMA community is distinguished by virtue of its focus on the computational and mathematical aspects of the subject. This focus aims to ensure that methods are sound that they identify arguments that are correct in some sense and provide an unambiguous specification for.

An Implementation of a Computational Model for the Analysis of Arguments : an Introduction to the First Attempt Trevor J. Smedley, 1986

Artificial Intelligence and Legal Analytics Kevin D. Ashley, 2017-07-10 This book describes how text analytics and computational models of legal reasoning will improve legal IR and let computers help humans solve legal problems.

Introduction to Elementary Computational Modeling Jose Garrido,2011-10-26 With an emphasis on problem solving, this book introduces the basic principles and fundamental concepts of computational modeling. It emphasizes reasoning and conceptualizing problems, the elementary mathematical modeling, and the implementation using computing concepts and principles. Examples are included that demonstrate the computation and visu

Computational Modeling of Human Language Acquisition Afra Alishahi,2011 In doing so, computational modeling provides insight into the plausible mechanisms involved in human language acquisition, and inspires the development of better language models and techniques. This book provides an overview of the main research questions in the field of human language acquisition. It reviews the most commonly used computational frameworks, methodologies and resources for modeling child language learning, and the evaluation techniques used for assessing these computational models. The book is aimed at cognitive scientists who want to become familiar with the available computational methods for investigating problems related to human language acquisition, as well as computational linguists who are interested in applying their skills to the study of child language acquisition.

Computational Models of Natural Argument Floriana Grasso,Nancy Green,Chris Reed,2011-08-07

Argument Evaluation and Evidence Douglas Walton,2015-08-04 This monograph poses a series of key problems of evidential reasoning and argumentation. It then offers solutions achieved by applying recently developed computational models of argumentation made available in artificial intelligence. Each problem is posed in such a way that the solution is easily understood. The book progresses from confronting these problems and offering solutions to them, building a useful general method for evaluating arguments along the way. It provides a hands-on survey explaining to the reader how to use current argumentation methods and concepts that are increasingly being implemented in more precise ways for the application of software tools in computational argumentation systems. It shows how the use of these tools and methods requires a new approach to the concepts of knowledge and explanation suitable for diverse settings, such as issues of public safety and health, debate, legal argumentation, forensic evidence, science education, and the use of expert opinion evidence in personal and public deliberations.

Computational Models of Argument Philippe Besnard,Sylvie Doutre,Anthony Hunter,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.

Argumentation Machines C. Reed,Timothy Norman,2003-12-31 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 re building 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 soci ety, but were for the most part unaware that AI was one of the best candidates for such application.

Computational Models of Argument Paul E. Dunne, Trevor J. M. Bench-Capon, 2006 The papers in this volume formed the programme of the 1st International Conference on Computational Models of Argument (COMMA), which was hosted by the Dept. of Computer Science of the University of Liverpool from Sept. 11th-12th, 2006.--Pref.

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is composed of layers of third dimensions like how a third dimensional object a cube is composed of layers of 2d objects squares each layer has a given w value and exists [fourth dimension spacetime medium](#) - Mar 30 2022

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