

Argumentation and explainable artificial intelligence: a survey

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Abstract

Argumentation and eXplainable Artificial Intelligence (XAI) are closely related, as in the recent years, Argumentation has been used for providing Explainability to AI. Argumentation can show step by step how an AI System reaches a decision; it can provide reasoning over uncertainty and can find solutions when conflicting information is faced. In this survey, we elaborate over the topics of Argumentation and XAI combined, by reviewing all the important methods and studies, as well as implementations that use Argumentation to provide Explainability in AI. More specifically, we show how Argumentation can enable Explainability for solving various types of problems in decision-making, justification of an opinion, and dialogues. Subsequently, we elaborate on how Argumentation can help in constructing explainable systems in various applications domains, such as in Medical Informatics, Law, the Semantic Web, Security, Robotics, and some general purpose systems. Finally, we present approaches that combine Machine Learning and Argumentation Theory, toward more interpretable predictive models.

1 Introduction

Explainability of an Artificial Intelligence (AI) system (i.e., tracking the steps that lead to the decision) was an easy task in the early stages of AI, as the majority of the systems were logic-based. For this reason, it was easy to provide transparency to their decisions by providing explanations and therefore to gain the trust of their users. This changed in the last 20 yr, when data-driven methods started to evolve and became part of most AI systems, giving them computational capabilities and learning skills that cannot easily be reached by means of logic languages alone. Eventually, the steadily increasing complexity of computational evolution of AI methods resulted in more obscure systems.

Therefore, a new research field appeared in order to make AI systems more explainable, called eXplainable Artificial Intelligence (XAI). The graph is presented in Figure 1, showing the *Google searcher* that contain the keyword XAI is very interesting, as it shows that people's searches are steadily increasing since the mid of 2016, indicating the interest in explaining decisions in AI (the picture was part of the study Adadi & Berrada 2018). Capturing an accurate definition of what can be considered an explanation is quite challenging, as can be seen in Miller (2019). Among many definitions, some commonly accepted ones are:

- *An explanation is an assignment of causal responsibility (Josephson & Josephson 1996).*
- *An explanation is both a process and a product that is it is the process and the result of a Why? question, Lombrozo (2006).*
- *An explanation is a process to find meaning or create shared meaning, Malle (2006).*

Argumentation In Artificial Intelligence

**Iyad Rahwan, Simon D. Parsons, Chris
Reed**



Argumentation In Artificial Intelligence:

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

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 1 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

Argumentation in Multi-Agent Systems Nicolas Maudet, Simon D. Parsons, Iyad Rahwan, 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 Iyad Rahwan, Simon D. Parsons, Chris Reed, 2008-03-28 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

Law and Artificial Intelligence Bart

Custers, Eduard Fosch-Villaronga, 2022-07-05 This book provides an in depth overview of what is currently happening in the field of Law and Artificial Intelligence AI From deep fakes and disinformation to killer robots surgical robots and AI lawmaking the many and varied contributors to this volume discuss how AI could and should be regulated in the areas of public law including constitutional law human rights law criminal law and tax law as well as areas of private law including liability law competition law and consumer law Aimed at an audience without a background in technology this book covers how AI changes these areas of law as well as legal practice itself This scholarship should prove of value to academics in several disciplines e g law ethics sociology politics and public administration and those who may find themselves confronted with AI in the course of their work particularly people working within the legal domain e g lawyers judges law enforcement officers public prosecutors lawmakers and policy advisors Bart Custers is Professor of Law and Data Science at eLaw Center for Law and Digital Technologies at Leiden University in the Netherlands Eduard Fosch Villaronga is Assistant Professor at eLaw Center for Law and Digital Technologies at Leiden University in the Netherlands

Theory and Applications of Formal Argumentation Elizabeth Black, Sanjay Modgil, Nir Oren, 2014-02-03 This book constitutes the refereed proceedings of the second International Workshop on the Theory and Applications of Formal Argumentation TFAFA 2013 held in Beijing China in August 2013 The Workshop was co located with IJCAI 2013 The 15 revised full papers presented were carefully reviewed and selected from 22 submissions The papers are organized in topical sections such as abstract argumentation frameworks social abstract argumentation with votes on attacks a normal form of argumentation frameworks assumption based argumentation argument schemes for normative practical reasoning

Argumentation Machines C. Reed, T.J. Norman, 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 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 society but were for the most part unaware that AI was one of the best candidates for such application

Artificial Intelligence Shaping Our Digital

World Priyadarshini J, Anusooya G, Premalatha M, Jayasudha M, 2023-10-16 Priyadarshini J working as a professor in the School of Computer Science and Engineering at VIT University Chennai she have received B E degree in Computer Science and Engineering from Anna University in 2006 and M Tech degree in Computer Science and Engineering from Anna University in 2008 She earned her doctorate in Information and Communication MIT Anna University in 2014 She have

published more than 50 articles in various conferences and journals both National International collectively She have a teaching experience of about 15 years and her areas of research includes Artificial Intelligence Machine Learning Image Processing Natural Language Processing in Legal Law and Health Care She was the HOD for B Tech and M Tech CSE with specialization in AI ML from 2019 to 2021 Anusooya G is currently an associate professor at the School of Computing Science and Engineering Vellore Institute of Technology Chennai India She has more than 15 years of teaching experience and 7 years of research experience She earned her B E and M E degrees in computer science and engineering from Anna University institutions She earned her Ph D degree from Vellore Institute of Technology Chennai India Currently she is also an Adjunct Professor at Kirirom Institute of Technology Cambodia Her research interests include sustainability energy efficiency carbon emissions footprint scheduling load balancing machine learning deep learning artificial intelligence She has published more than 12 research articles in SCI and SCOPUS journals She has more than 50 citations an H index of 5 and an i10 index of 2 She has guided more than 20 UG and PG students in their research and project work most of which has been published as Scopus conference papers Premalatha M is serving as a Senior Associate Professor in the School of Computer Science and Engineering Vellore Institute of Technology Chennai She has received her B E in Computer Science and Engineering degree from Madurai Kamaraj University Madurai in 2002 M Tech in Advanced Computing degree from SASTRA University Tanjore in 2004 and Ph D in Computer Science and Engineering from Vellore Institute of Technology Chennai in 2020 She has more than 19 years of teaching experience She has published 24 research articles in the International National Journals and Conferences Her research interests include Educational Data Mining Recommender Systems Natural Language Processing Machine Learning and Deep Learning Jayasudha M is currently an associate professor at the School of Computing Science and Engineering Vellore Institute of Technology Chennai India She has more than 15 years of teaching experience and 7 years of research experience She earned her B E and M E degrees in computer science and engineering from Anna University institutions She earned her Ph D degree from Vellore Institute of Technology Chennai India Her research interests include Cloud Security machine learning deep learning artificial intelligence AI in security She has published more than 12 research articles in SCI and SCOPUS journals She has more than 50 citations an H index of 5 and an i10 index of 2 She has guided more than 20 UG and PG students in their research and project work most of which has been published as Scopus conference papers

Computational Models of Argument Francesco Santini, Carlo Taticchi, 2020-09-15 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

Argumentation in Multi-Agent Systems Peter McBurney, Iyad Rahwan, Simon D. Parsons, Nicolas Maudet, 2010-05-09 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

Decoding **Argumentation In Artificial Intelligence**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Argumentation In Artificial Intelligence**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Argumentation In Artificial Intelligence Introduction

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