

A Logic for Collective Choice

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ABSTRACT

This paper presents a modal logic for modelling individual and collective choices over a set of feasible alternatives. The logic extends propositional logic with a binary modality so that a formula can express not only properties of alternatives but also priorities of individuals over the properties. More importantly, each formula of this logic determines a preference ordering over alternatives based on the priorities over properties that the formula expresses. In such a way, preferences of multiple agents can be represented by a set of formulas in the same logic. This allows us to treat the problem of collective choice in a multi-agent system as aggregation of logical formulas. We further use this language to express a few plausible collective choice rules. Similar to preference aggregation, we specify collective choice rules by Arrow's conditions. Interestingly, all Arrowian conditions are plausible under the new setting except independence of irrelevant Alternatives. This gives us a natural way to avoid Arrow's impossibility result. Finally, we develop a model checking algorithm to automatically generate individual and collective choices in the logic.

Categories and Subject Descriptors

I.2.4 [Artificial Intelligence]: Knowledge Representation Formalisms and Methods—*Modal logic*; I.2.11 [Artificial Intelligence]: Distributed Artificial Intelligence—*Multiagent systems*

General Terms

Theory

Keywords

Multi-agent systems; collective choice; modal logic; social choice

1. INTRODUCTION

Social Choice Theory deals with the problem of how to aggregate individual preferences into a social or collective preference so as to reach a collective decision [12, 13]. In the simplest setting when individual preferences are given by orderings over available alternatives, social choice is to select a rule that maps the set of individual preference orderings into a social preference ordering over the same alternatives and then make a collective choice from the alternatives in terms of the social preference ordering. However, in

many situations, individual's preference may not be given in the form of an ordering over alternatives but the "reasons" that lead to the preference [8, 21]. For instance, when buying a property, we may express our preference in the way of specifying which locations we like the house to be, how many bedrooms we want it to have and which price range we can afford. These reasons not only induce a preference ordering over the set of alternatives, say a ranking over the houses available on the market, but also convey more information than the preference ordering, which is crucial for understanding rational choice of an agent, i.e., *reason-based choice* [6, 8, 21].

Representing reasons for a preference is more primary than representing the preference itself. There are a number of ways that the concept of a reason can be formalized. A simple way is to express a reason in a propositional formula [18]. For instance, if we want a four-bedroom house located in Mountain View, the reason can be represented as *Mountain_View* $\wedge$ *Four_bedroom*. However, most often not all of the reasons can be satisfied, and we have to make some sort of compromises. One of the most natural and convenient methods is to sort reasons. If the best option is unavailable, the agent may then be satisfied by the second best option (or third, etc). For instance, we might want to express that we want to buy a four-bedroom house located in Mountain View most; if it is impossible, a four-bedroom house located in Menlo Park is also fine. There are some logical languages that we can use for describing the priorities among reasons [4, 17, 19, 21, 22]. For example, if we use the language of Brezka *et al.*'s qualitative choice logic [4], our reasons of house choice with the above-mentioned priority over locations can be represented as $(\textit{Mountain_View} \wedge \textit{Four_bedroom}) \bar{x} (\textit{Menlo_Park} \wedge \textit{Four_bedroom})$.

Logical representation of reason-based choices does not provide a solution to the problem of reason-based social choice. One idea would be that we convert the reason-based preference of each agent into a preference ordering over alternatives and then apply a conventional preference aggregation rule to deduce the social preference ordering. Unfortunately, this does not provide a solution to the problem because the outcome of the social preference is no longer reason-based, which does not give reasons for collective choice. In fact, we need a facility that is more like judgment aggregation with which we can aggregate individual reasons into collective reasons [7].

This paper aims to propose a logical formalism for representing and reasoning about individual and collective choices based on reasons. Firstly, we extend the language of propositional logic with a binary modality so that each formula in this language can express not only reasons for choices (i.e., properties of alternatives) but also priorities over the reasons. Each formula of this logic determines a preference ordering over alternatives on the basis of the priority

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The Logic Of Collective Choice

Lauren Gardner



The Logic Of Collective Choice:

This book delves into The Logic Of Collective Choice. The Logic Of Collective Choice is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into The Logic Of Collective Choice, encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of The Logic Of Collective Choice
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- Chapter 4: The Logic Of Collective Choice in Specific Contexts
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6. In chapter 5, the author will draw a conclusion about The Logic Of Collective Choice. The final chapter will summarize the key points that have been discussed throughout the book.

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Table of Contents The Logic Of Collective Choice

1. Understanding the eBook The Logic Of Collective Choice
 - The Rise of Digital Reading The Logic Of Collective Choice
 - Advantages of eBooks Over Traditional Books
2. Identifying The Logic Of Collective Choice
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Logic Of Collective Choice
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Logic Of Collective Choice
 - Personalized Recommendations
 - The Logic Of Collective Choice User Reviews and Ratings
 - The Logic Of Collective Choice and Bestseller Lists
5. Accessing The Logic Of Collective Choice Free and Paid eBooks
 - The Logic Of Collective Choice Public Domain eBooks
 - The Logic Of Collective Choice eBook Subscription Services
 - The Logic Of Collective Choice Budget-Friendly Options
6. Navigating The Logic Of Collective Choice eBook Formats
 - ePub, PDF, MOBI, and More
 - The Logic Of Collective Choice Compatibility with Devices
 - The Logic Of Collective Choice Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Logic Of Collective Choice
 - Highlighting and Note-Taking The Logic Of Collective Choice
 - Interactive Elements The Logic Of Collective Choice
8. Staying Engaged with The Logic Of Collective Choice

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers The Logic Of Collective Choice
- 9. Balancing eBooks and Physical Books The Logic Of Collective Choice
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Logic Of Collective Choice
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine The Logic Of Collective Choice
 - Setting Reading Goals The Logic Of Collective Choice
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of The Logic Of Collective Choice
 - Fact-Checking eBook Content of The Logic Of Collective Choice
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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