

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 Breuker *et al.*'s qualitative choice logic [4], our reasons of house choice with the above-mentioned priority over locations can be represented as $(\text{Mountain_View} \wedge \text{Four_bedroom}) \bar{x} (\text{Menlo_Park} \wedge \text{Four_bedroom})$.

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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Victor M. Corman



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