

Andranick S.Tanguiane

# **Aggregation and Representation of Preferences**

Introduction to Mathematical  
Theory of Democracy



Springer-Verlag

# Aggregation And Representation Of Preferences

**Bernard Enjolras, Karl Henrik Sivesind**



## **Aggregation And Representation Of Preferences:**

Aggregation and Representation of Preferences Andranick S. Tanguiane, 2012-12-06 Aggregation is the conjunction of information aimed at its compact representation Any time when the totality of data is described in terms of generalized indicators conventional counts typical representatives and characteristic dependences one directly or indirectly deals with aggregation It includes revealing the most significant characteristics and distinctive features quantitative and qualitative analysis As a result the information becomes adaptable for further processing and convenient for human perception Aggregation is widely used in economics statistics management planning system analysis and many other fields That is why aggregation is so important in data processing Aggregation of preferences is a particular case of the general problem of aggregation It arises in multicriteria decision making and collective choice when a set of alternatives has to be ordered with respect to contradicting criteria or various individual opinions However in spite of apparent similarity the problems of multicriteria decision making and collective choice are somewhat different Indeed an improvement in some specifications at the cost of worsening others is not the same as the satisfaction of interests of some individuals to the prejudice of the rest In the former case the reciprocal compensations are considered within a certain entirety in the latter we infringe upon the rights of independent individuals Moreover in multicriteria decision making one usually takes into account objective factors whereas in collective choice one has to compare subjective opinions which cannot be measured properly

**Principles of Knowledge Representation and Reasoning** A. G. Cohn, Fausto Giunchiglia, Bart Selman, 2000 Algorithmic Decision

Theory Dimitris Fotakis, David Ríos Insua, 2021-10-27 This book constitutes the conference proceedings of the 7th International Conference on Algorithmic Decision Theory ADT 2021 held in Toulouse France in November 2021 The 27 full papers presented were carefully selected from 58 submissions The papers focus on algorithmic decision theory broadly defined seeking to bring together researchers and practitioners coming from diverse areas of computer science economics and operations research in order to improve the theory and practice of modern decision support

**Fuzzy Sets and Their Extensions: Representation, Aggregation and Models** Humberto Bustince, Francisco Herrera, Javier Montero, 2007-10-30 This carefully edited book presents an up to date state of current research in the use of fuzzy sets and their extensions It pays particular attention to foundation issues and to their application to four important areas where fuzzy sets are seen to be an important tool for modeling and solving problems The book's 34 chapters deal with the subject with clarity and effectiveness They include four review papers introducing some non standard representations

*Distributed Linguistic Representations and Decision Making* Yuzhu Wu, Yucheng Dong, 2025-07-03 This book provides a comprehensive perspective on the development of distributed linguistic representations in decision making including the taxonomy of existing distributed linguistic representations the key elements and the classifications It systematically investigates the formation of distributed linguistic representations and the methodology for the distributed linguistic information transformations and

unifications as well as the fusion and consensus reaching This book studies the distributed linguistic information in MADM and the PIS based applications of distributed linguistic information processing in decision making Distributed linguistic representations are powerful tools for modelling the uncertainty and complexity of preference information in linguistic decision making This book is written for researchers and postgraduates interested in linguistic decision making Readers will find out lots of clear cues for distributed linguistic representations and distributed linguistic methodology to support decision making

**Working with Preferences: Less Is More** Souhila Kaci, 2011-06-20 Preferences are useful in many real life problems guiding human decision making from early childhood up to complex professional and organizational decisions In artificial intelligence specifically preferences is a relatively new topic of relevance to nonmonotonic reasoning multiagent systems constraint satisfaction decision making social choice theory and decision theoretic planning The first part of this book deals with preference representation with specific chapters dedicated to representation languages nonmonotonic logics of preferences conditional preference networks positive and negative preferences and the study of preferences in cognitive psychology The second part of the book deals with reasoning with preferences and includes chapters dedicated to preference based argumentation preferences database queries and rank ordering outcomes and intervals The author concludes by examining forthcoming research perspectives This is inherently a multidisciplinary topic and this book will be of interest to computer scientists economists operations researchers mathematicians logicians philosophers and psychologists

**Computational Logic in Multi-Agent Systems** Joao Leite, Paolo Torroni, Thomas Agotnes, Guido Boella, Leon van der Torre, 2011-07-06 This book constitutes the proceedings of the 12th International Workshop on Computational Logic in Multi Agent Systems CLIMA XII held in Barcelona Spain in July 2011 The 22 papers presented were carefully reviewed and selected from 43 submissions The purpose of the CLIMA workshops is to provide a forum for discussing techniques based on computational logic for representing programming and reasoning about agents and multi agent systems in a formal way This volume features five thematic special sessions secrets and trust knowledge and beliefs logics for games and social choice cooperation logic and languages and norms and normative multi agent systems

**Consensual Processes** Enrique Herrera-Viedma, José Luis García-Lapresta, Janusz Kacprzyk, Mario Fedrizzi, Hannu Nurmi, Slawomir Zadrozny, 2011-05-13 The word consensus has been frequently used for centuries perhaps millenia People have always deemed it important that decisions having a long lasting impact on groups countries or even civilizations be arrived at in a consensual manner Undoubtedly the complexity of modern world in all its social technological economic and cultural dimensions has created new environments where consensus is regarded desirable Consensus typically denotes a state of agreement prevailing in a group of agents human or software In the strict sense of the term consensus means that the agreement be unanimous Since such a state is often unreachable or even unnecessary other less demanding consensus related notions have been introduced These typically involve some graded partial or imprecise concepts The contributions to this volume define and utilize such less

demanding and thus at the same time more general notions of consensus. However, consensus can also refer to a process whereby the state of agreement is reached. Again, this state can be something less stringent than a complete unanimity of all agents regarding all options. The process may involve modifications, resolutions, and/or mitigations of the views or inputs of individuals or software agents in order to achieve the state of consensus understood in the more general sense. The consensus reaching processes call for some soft computational approaches, methods, and techniques, notably fuzzy and possibilistic ones. These are needed to accommodate the imprecision in the very meaning of some basic concepts utilized in the definition of consensus as a state of agreement and as a process whereby this state is to be reached. The overall aim of this volume is to provide a comprehensive overview and analysis of the issues related to consensus states and consensual processes.

**Consensus Building in Group Decision Making** Yucheng Dong, Jiuping Xu, 2015-10-22. This book is intended for researchers and postgraduates who are interested in the consensus reaching process in group decision making problems. It puts forward new optimization based decision support approaches to help decision makers find roadmaps to consensus with minimum adjustments. Simulation experiments and comparison analysis are subsequently conducted to assess the validity of the proposal. After reading this book, readers will possess a number of valuable tools for building consensus with minimum adjustments in the context of group decision making. Further, the proposed approach can effectively reduce costs in consensus building.

Handbook of Risk Theory Sabine Roeser, 2012. Risk has become one of the main topics in fields as diverse as engineering, medicine, and economics, and it is also studied by social scientists, psychologists, and legal scholars. But the topic of risk also leads to more fundamental questions such as: What is risk? What can decision theory contribute to the analysis of risk? What does the human perception of risk mean for society? How should we judge whether a risk is morally acceptable or not? Over the last couple of decades, questions like these have attracted interest from philosophers and other scholars into risk theory. This handbook provides for an overview into key topics in a major new field of research. It addresses a wide range of topics ranging from decision theory, risk perception, to ethics and social implications of risk, and it also addresses specific case studies. It aims to promote communication and information among all those who are interested in theoretical issues concerning risk and uncertainty. This handbook brings together internationally leading philosophers and scholars from other disciplines who work on risk theory. The contributions are accessibly written and highly relevant to issues that are studied by risk scholars. We hope that the Handbook of Risk Theory will be a helpful starting point for all risk scholars who are interested in broadening and deepening their current perspectives.

**Civil Society in Comparative Perspective** Bernard Enjolras, Karl Henrik Sivesind, 2009-12-01. Presents a collection of comparative studies of civil society around two main issues: the comparison and analysis of civil society regimes in relation to different constructions of citizenship and welfare states, and the role of civil society in governance and active participation of citizens.

The Oxford Handbook of Comparative Politics Carles Boix, Susan Carol Stokes, 2007. The Oxford Handbooks of Political Science is a ten

volume set of reference books offering authoritative and engaging critical overviews of the state of political science. Each volume focuses on a particular part of the discipline with volumes on Public Policy Political Theory Political Economy Contextual Political Analysis Comparative Politics International Relations Law and Politics Political Behavior Political Institutions and Political Methodology. The project as a whole is under the General Editorship of Robert E. Goodin with each volume being edited by a distinguished international group of specialists in their respective fields. The books set out not just to report on the discipline but to shape it. The series will be an indispensable point of reference for anyone working in political science and adjacent disciplines. The Oxford Handbook of Comparative Politics offers a critical survey of the field of empirical political science through the collection of a set of chapters written by 47 top scholars in the discipline of comparative politics. Part I includes chapters surveying the key research methodologies employed in comparative politics: the comparative method, the use of history, the practice and status of case study research, the contributions of field research, and assessing the possibility of constructing a science of comparative politics. Parts II to IV examine the foundations of political order, the origins of states, and the extent to which they relate to war and to economic development; the sources of compliance or political obligation among citizens; democratic transitions; the role of civic culture; authoritarianism; revolutions; civil wars; and contentious politics. Parts V and VI explore the mobilization, representation, and coordination of political demands. Part V considers why parties emerge, the forms they take, and the ways in which voters choose parties. It then includes chapters on collective action, social movements, and political participation. Part VI opens up with essays on the mechanisms through which political demands are aggregated and coordinated. This sets the agenda to the systematic exploration of the workings and effects of particular institutions: electoral systems, federalism, legislative-executive relationships, the judiciary, and bureaucracy. Finally, Part VII is organized around the burgeoning literature on the macropolitical economy of the last two decades.

**Aggregation Operators** Tomasa Calvo, Gaspar Mayor, Radko Mesiar, 2002-04-10 1. The increasing number of research papers appeared in the last years that either make use of aggregation functions or contribute to its theoretical study assesses its growing importance in the field of Fuzzy Logic and in others where uncertainty and imprecision play a relevant role. Since these papers are published in many journals, few books and several proceedings of conferences, books on aggregation are particularly welcome. To my knowledge, *Aggregation Operators: New Trends and Applications* is the first book aiming at generality, and I take it as a honour to write this Foreword in response to the gentle demand of its editors, Radko Mesiar, Tomasa Calvo, and Gaspar Mayor. My pleasure also derives from the fact that twenty years ago I was one of the first Spaniards interested in the study of aggregation functions, and this book includes work by several Spanish authors. The book contains nice and relevant original papers authored by some of the most outstanding researchers in the field, and since it can serve as the editors point out in the Preface as a small handbook on aggregation, the book is very useful for those entering the subject for the first time. The book also contains a part dealing with potential areas of application so it can be helpful in

gaining insight on the future developments

**Symbolic and Quantitative Approaches to Reasoning with Uncertainty** Lluís Godó, 2005-06-24 These are the proceedings of the 8th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty ECSQARU 2005 held in Barcelona Spain July 6-8 2005 The ECSQARU conferences are biennial and have become a major forum for advances in the theory and practice of reasoning under uncertainty The first ECSQARU conference was held in Marseille 1991 and after in Granada 1993 Fribourg 1995 Bonn 1997 London 1999 Toulouse 2001 and Aalborg 2003 The papers gathered in this volume were selected out of 130 submissions after a strict review process by the members of the Program Committee to be presented at ECSQARU 2005 In addition the conference included invited lectures by three outstanding researchers in the area Serafin Moral Imprecise Probabilities Rudolf Kruse Graphical Models in Planning and Jerôme Lang Social Choice Moreover the application of uncertainty models to real world problems was addressed at ECSQARU 2005 by a special session devoted to successful industrial applications organized by Rudolf Kruse Both invited lectures and papers of the special session contribute to this volume On the whole the programme of the conference provided a broad rich and up to date perspective of the current high level research in the area which is reflected in the contents of this volume I would like to warmly thank the members of the Program Committee and the additional referees for their valuable work the invited speakers and the invited session organizer

**Algorithmic Decision Theory** Toby Walsh, 2015-08-27 This book constitutes the thoroughly refereed conference proceedings of the 4th International Conference on Algorithmic Decision Theory ADT 2015 held in September 2015 in Lexington USA The 32 full papers presented were carefully selected from 76 submissions The papers are organized in topical sections such as preferences manipulation learning and other issues utility and decision theory argumentation bribery and control social choice allocation and other problems doctoral consortium

**Quantitative Techniques in Participatory Forest Management** Eugenio Martínez-Falero, Susana Martín-Fernández, Antonio D. García-Abril, 2016-04-19 Forest management has evolved from a mercantilist view to a multi functional one that integrates economic social and ecological aspects However the issue of sustainability is not yet resolved Quantitative Techniques in Participatory Forest Management brings together global research in three areas of application inventory of the forest variables that determine the main environmental indices description and design of new environmental indices and the application of sustainability indices for regional implementations All these quantitative techniques create the basis for the development of scientific methodologies of participatory sustainable forest management

**The Handbook of Rational and Social Choice** Paul Anand, Prasanta Pattanaik, Clemens Puppe, 2009-01-15 The Handbook of Rational and Social Choice provides an overview of issues arising in work on the foundations of decision theory and social choice over the past three decades Drawing on work by economic theorists mainly but also with contributions from political science philosophy and psychology the collection shows how the related areas of decision theory and social choice have developed in their applications and moved well beyond the basic

models of expected utility and utilitarian approaches to welfare economics Containing twenty three contributions in many cases by leading figures in their fields the handbook shows how the normative foundations of economics have changed dramatically as more general and explicit models of utility and group choice have been developed This is perhaps the first time these developments have been brought together in a manner that seeks to identify and make accessible the recent themes and developments that have been of particular interest to researchers in recent years The collection will be of particular value to researchers in economics with interests in utility or welfare but it will also be of interest to any social scientist or philosopher interested in theories of rationality or group decision making **From Web to Social Web:**

**Discovering and Deploying User and Content Profiles** Bettina Berendt, Andreas Hotho, Dunja Mladenic, Giovanni Semeraro, 2007-09-04 This book constitutes the refereed proceedings of the Workshop on Web Mining WebMine 2006 held in Berlin Germany September 2006 Topics included are data mining based on analysis of bloggers and tagging web mining XML mining and further techniques of knowledge discovery The book is especially valuable for those interested in the aspects of Web 2.0 and its inherent dynamic and diversity of user generated content Aggregation Functions in Theory and in

Practise Humberto Bustince Sola, Javier Fernandez, Radko Mesiar, Tomasa Calvo, 2013-06-20 This volume collects the extended abstracts of 45 contributions of participants to the Seventh International Summer School on Aggregation Operators AGOP 2013 held at Pamplona in July 16-20 2013 These contributions cover a very broad range from the purely theoretical ones to those with a more applied focus Moreover the summaries of the plenary talks and tutorials given at the same workshop are included Together they provide a good overview of recent trends in research in aggregation functions which can be of interest to both researchers in Physics or Mathematics working on the theoretical basis of aggregation functions and to engineers who require them for applications *Preference Learning* Johannes Fürnkranz, Eyke

Hüllermeier, 2010-11-19 The topic of preferences is a new branch of machine learning and data mining and it has attracted considerable attention in artificial intelligence research in previous years It involves learning from observations that reveal information about the preferences of an individual or a class of individuals Representing and processing knowledge in terms of preferences is appealing as it allows one to specify desires in a declarative way to combine qualitative and quantitative modes of reasoning and to deal with inconsistencies and exceptions in a flexible manner And generalizing beyond training data models thus learned may be used for preference prediction This is the first book dedicated to this topic and the treatment is comprehensive The editors first offer a thorough introduction including a systematic categorization according to learning task and learning technique along with a unified notation The first half of the book is organized into parts on label ranking instance ranking and object ranking while the second half is organized into parts on applications of preference learning in multiattribute domains information retrieval and recommender systems The book will be of interest to researchers and practitioners in artificial intelligence in particular machine learning and data mining and in fields such as



multicriteria decision making and operations research

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