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SERIES B: MATHEMATICAL AND STATISTICAL METHODS

FUAD ALLESKEROV

# ARROVIAN AGGREGATION MODELS

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# Arrovian Aggregation Models

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## **Arrovian Aggregation Models:**

*Arrovian Aggregation Models* Fuad T. Aleskerov, 2013-06-29 Aggregation of individual opinions into a social decision is a problem widely observed in everyday life For centuries people tried to invent the best aggregation rule In 1951 young American scientist and future Nobel Prize winner Kenneth Arrow formulated the problem in an axiomatic way i e he specified a set of axioms which every reasonable aggregation rule has to satisfy and obtained that these axioms are inconsistent This result often called Arrow s Paradox or General Impossibility Theorem had become a cornerstone of social choice theory The main condition used by Arrow was his famous Independence of Irrelevant Alternatives This very condition pre defines the local treatment of the alternatives or pairs of alternatives or sets of alternatives etc in aggregation procedures Remaining within the framework of the axiomatic approach and based on the consideration of local rules Arrovian Aggregation Models investigates three formulations of the aggregation problem according to the form in which the individual opinions about the alternatives are defined as well as to the form of desired social decision In other words we study three aggregation models What is common between them is that in all models some analogue of the Independence of Irrelevant Alternatives condition is used which is why we call these models Arrovian aggregation models Chapter 1 presents a general description of the problem of axiomatic synthesis of local rules and introduces problem formulations for various versions of formalization of individual opinions and collective decision Chapter 2 formalizes precisely the notion of rationality of individual opinions and social decision Chapter 3 deals with the aggregation model for the case of individual opinions and social decisions formalized as binary relations Chapter 4 deals with Functional Aggregation Rules which transform into a social choice function individual opinions defined as choice functions Chapter 5 considers another model Social Choice Correspondences when the individual opinions are formalized as binary relations and the collective decision is looked for as a choice function Several new classes of rules are introduced and analyzed

**Soft Computing Applications for Group Decision-making and Consensus Modeling** Mikael Collan, Janusz Kacprzyk, 2017-06-30 This book offers a concise introduction and comprehensive overview of the state of the art in the field of decision making and consensus modeling with a special emphasis on fuzzy methods It consists of a collection of authoritative contributions reporting on the decision making process from different perspectives from psychology to social and political sciences from decision sciences to data mining and from computational sciences in general to artificial and computational intelligence and systems Written as a homage to Mario Fedrizzi for his scholarly achievements creative ideas and long lasting services to different scientific communities it introduces key theoretical concepts describes new models and methods and discusses a range of promising real world applications in the field of decision making science It is a timely reference guide and a source of inspiration for advanced students and researchers

**Handbook of Social Choice and Welfare** Amartya Sen, Kotaro Suzumura, 2007 [Intelligent and Fuzzy Systems](#) Cengiz Kahraman, Irem Ucal Sari, Basar Oztaysi, Selcuk Cebi, Sezi Cevik Onar, A. Çağrı Tolga, 2023-08-16 This book

consists of the papers accepted after a careful review process at an international scientific meeting where the latest developments on intelligent and fuzzy systems are presented and discussed The latest developments in both the theoretical and practical fields of the new fuzzy set extensions have been prepared by expert researchers Contributed by participants from more than 40 different countries this book is also a useful resource in terms of showing the levels that fuzzy and intelligent systems have reached in various countries of the world The intended readers are intelligent and fuzzy systems researchers lecturers M Sc and Ph D students studying fuzzy sets and artificial intelligence The book covers fuzzy logic theory and applications heuristics and metaheuristics from optimization to machine learning from quality management to risk management making the book an excellent source for researchers

**Monotonicity Failures Afflicting Procedures for Electing a Single Candidate** Dan S. Felsenthal, Hannu Nurmi, 2017-02-08 This book provides an evaluation of 18 voting procedures in terms of the most important monotonicity related criteria in fixed and variable electorates All voting procedures studied aim at electing one out of several candidates given the voters preferences over the candidates In addition to strict monotonicity failures the vulnerability of the procedures to variation of the no show paradoxes is discussed All vulnerabilities are exemplified and explained The occurrence of the no show paradoxes is related to the presence or absence of a Condorcet winner The primary readership of this book are scholars and students in the area of social choice

Axiomatic Consensus Theory in Group Choice and Biomathematics William H. E. Day, F. R. McMorris, 2003-01-01 A unique comprehensive review of axiomatic consensus theory in biomathematics as it has developed over the past 30 years

*Scalable Uncertainty Management* Florence Dupin de Saint-Cyr, Meltem Öztürk-Escoffier, Nico Potyka, 2022-10-14 This book constitutes the refereed proceedings of the 15th International Conference on Scalable Uncertainty Management SUM 2022 which was held in Paris France in October 2022 The 19 full and 4 short papers presented in this volume were carefully reviewed and selected from 25 submissions Besides that the book also contains 3 abstracts of invited talks and 2 tutorial papers The conference aims to gather researchers with a common interest in managing and analyzing imperfect information from a wide range of fields such as artificial intelligence and machine learning databases information retrieval and data mining the semantic web and risk analysis The chapter Defining and Enforcing Descriptive Accuracy in Explanations the Case of Probabilistic Classifiers is licensed under the terms of the Creative Commons Attribution 4.0 International License

Handbook of Social Choice and Welfare Kenneth J. Arrow, A.K. Sen, Kotaro Suzumura, 2002-08-15 One of two volumes The Handbook of Social Choice and Welfare contains a series of essays that examine past and on going social choice theory and welfare economics It provides a means to making collective decisions on such issues

**Mathematical Reviews**, 2006  
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