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Arrovian Aggregation Models

Eyke Hüllermeier



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 Kenneth J. Arrow, A. Sen, Kotaro Suzumura, 2010-10-13 This second part of a two volume set continues to describe economists efforts to quantify the social decisions people necessarily

make and the philosophies that those choices define Contributors draw on lessons from philosophy history and other disciplines but they ultimately use editor Kenneth Arrow's seminal work on social choice as a jumping off point for discussing ways to incentivize punish and distribute goods Develops many subjects from Volume 1 2002 while introducing new themes in welfare economics and social choice theory Features four sections Foundations Developments of the Basic Arrowian Schemes Fairness and Rights and Voting and Manipulation Appeals to readers who seek introductions to writings on human well being and collective decision making Presents a spectrum of material from initial insights and basic functions to important variations on basic schemes

Modelling, Computation and Optimization in Information Systems and Management Sciences Hoai An Le Thi, Tao Pham Dinh, Ngoc Thanh Nguyen, 2015-05-07 This proceedings set contains 85 selected full papers presented at the 3rd International Conference on Modelling Computation and Optimization in Information Systems and Management Sciences MCO 2015 held on May 11-13 2015 at Lorraine University France The present part II of the 2 volume set includes articles devoted to Data analysis and Data mining Heuristic Meta heuristic methods for operational research applications Optimization applied to surveillance and threat detection Maintenance and Scheduling Post Crises banking and eco finance modelling Transportation as well as Technologies and methods for multi stakeholder decision analysis in public settings

Limit Theorems and Applications of Set-Valued and Fuzzy Set-Valued Random Variables Shoumei Li, Y. Ogura, V. Kreinovich, 2013-04-17 After the pioneering works by Robbins 1944 1945 and Choquet 1955 the notation of a set valued random variable called a random closed set in literatures was systematically introduced by Kendall 1974 and Matheron 1975 It is well known that the theory of set valued random variables is a natural extension of that of general real valued random variables or random vectors However owing to the topological structure of the space of closed sets and special features of set theoretic operations cf Beer 27 set valued random variables have many special properties This gives new meanings for the classical probability theory As a result of the development in this area in the past more than 30 years the theory of set valued random variables with many applications has become one of new and active branches in probability theory In practice also we are often faced with random experiments whose outcomes are not numbers but are expressed in inexact linguistic terms

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

Group Verbal Decision Analysis Alexey B. Petrovsky, 2023-03-14 This book describes an original approach to solving tasks of individual and collective choice classification ranking and selection of multi attribute objects Object representation with multisets allows considering simultaneously numerical and symbolic variables In group verbal decision analysis judgments of all participants are taken into account without a compromise between contradictory Natural language is used to describe problems and objects formalize knowledge of experts and preferences of decision makers and explain results Verbal methods and technologies are more transparent less laborious for a person and weakly

sensitive to measurement errors The book also includes examples of applying new tools in real ill structured high dimensional choice tasks It is intended for researchers managers consultants analysts and developers as well as for teachers and students of applied mathematics computer science information processing engineering economics and management

Computational Logic in Multi-Agent Systems Nils Bulling, Leendert van der Torre, Serena Villata, Wojtek Jamroga, Wamberto Vasconcelos, 2014-07-21 This book constitutes the proceedings of the 15th International Workshop on Computational Logic in Multi Agent Systems CLIMA XV held in Prague Czech Republic in August 2014 The 12 regular papers were carefully reviewed and selected from 20 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 edition will feature two special sessions logics for agreement technologies and logics for games strategic reasoning and social choice *Utility Maximization, Choice and Preference* Fuad Aleskerov, Denis Bouyssou, Bernard Monjardet, 2007-08-09 The utility maximization paradigm forms the basis of many economic psychological cognitive and behavioral models However numerous examples have revealed the deficiencies of the concept This book helps to overcome those deficiencies by taking into account insensitivity of measurement threshold and context of choice The second edition has been updated to include the most recent developments and a new chapter on classic and new results for infinite sets 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 **Bioconsensus** DIMACS (Group), 2003 In the rapidly developing field of bioconsensus consensus methods from the social and behavioral sciences are used when choosing among alternative solutions to problems in the biological sciences This text for mathematical and evolutionary biologists and computer scientists contains 16 contributions on various topics in bioconsensus Included are papers originally presented at meetings held in 2000 and 2001 at the DIMACS Center as well as some from experts who did not attend the meetings These papers provide historical background discuss the axiomatic foundations of the field of bioconsensus and apply consensus methods to real data The volume is not indexed Annotation c 2003 Book News Inc Portland OR booknews com **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

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

A Course in Mathematical and Statistical Ecology

Anil Gore, S.A. Paranjpe, 2013-04-17 As the world enters the new millennium mankind faces a series of new problems many of them created by man himself These include overpopulation air and water pollution global warming accumulation of greenhouse gases damage to the ozone layer and loss of biodiversity Perhaps these problems were around even earlier in an incipient stage but they have now assumed global proportions and are uppermost in the minds of all A natural consequence is enhanced interest in sciences connected with these problems Ecology is a field that is immensely useful in understanding many of them In the seventies nature conservation became a concern of wide sections of society well beyond the small group of expert ecologists Species extinction and depletion of biological resources were seen as major threats to human welfare It was therefore natural for scientists from different disciplines to seek reasons behind these developments We were no exceptions and when opportunity to interact with ecologists as statistical consultants came we found ourselves reading more and more of ecology and evolutionary biology Several years ago we proposed starting of an elective one semester course on statistical ecology for graduate students of statistics of Pune University

Data Analysis and Optimization

Boris Goldengorin, Sergei Kuznetsov, 2023-09-23 This book presents the state of the art in the emerging field of data science and includes models for layered security with applications in the protection of sites such as large gathering places through high stake decision making tasks Such tasks include cancer diagnostics self driving cars and others where wrong decisions can possibly have catastrophic consequences Additionally this book provides readers with automated methods to analyze patterns and models for various types of data with applications ranging from scientific discovery to business intelligence and analytics

The book primarily includes exploratory data analysis pattern mining clustering and classification supported by real life case studies The statistical section of this book explores the impact of data mining and modeling on the predictability assessment of time series Further new notions of mean values based on ideas of multi criteria optimization are compared with their conventional definitions leading to new algorithmic approaches to the calculation of the suggested new means The style of the written chapters and the provision of a broad yet in depth overview of data mining integrating novel concepts from machine learning and statistics make the book accessible to upper level undergraduate and graduate students in data mining courses Students and professionals specializing in computer and management science data mining for high dimensional data complex graphs and networks will benefit from the cutting edge ideas and practically motivated case studies in this book

Computational Models of Argument B. Verheij,S. Szeider,S. Woltran,2012-09-04 The subject of argumentation has been studied since ancient times but it has seen major innovations since the advent of the computer age Software already exists which can create and evaluate arguments in high stake situations such as medical diagnosis and criminal investigation formal systems can help us appreciate the role of the value judgments which underlie opposing positions and it is even possible to enter into argumentative dialogues as if playing a computer game This book presents the 28 full papers 17 short papers and a number of system demonstrations described in an extended abstract from the 2012 biennial Computational Models of Argument COMMA conference held in Vienna Austria Papers by the invited speakers Professor Trevor Bench Capon Professor Erik Krabbe and Professor Keith Stenning are also included This year for the first time COMMA invited the submission of papers for an innovative applications track and those which were accepted for presentation are included in this volume Argumentation can be studied from many angles including the artificial natural and theoretical systems perspective Presentations at the 2012 conference addressed the subject from these perspectives and many more **Transactions on**

Computational Collective Intelligence XXXVI Ngoc Thanh Nguyen,Ryszard Kowalczyk,Anna Motylska-Kuźma,Jacek Mercik,2021-12-04 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as performance optimization in IoT big data reliability privacy security service selection QoS and machine learning This 36th issue contains 7 selected papers which present new findings and innovative methodologies as well as discuss issues and challenges in the field of collective intelligence from big data and networking paradigms while addressing security privacy reliability and optimality to achieve QoS to the benefit of final users This is an open access book Advances in Collective Decision Making Sascha Kurz,Nicola Maaser,Alexander

Mayer,2023-05-04 This book presents research on recent developments in collective decision making With contributions from leading scholars from a variety of disciplines it provides an up to date overview of applications in social choice theory welfare economics and industrial organization The contributions address amongst others topics such as measuring power the manipulability of collective decisions and experimental approaches Applications range from analysis of the complicated

institutional rules of the European Union to responsibility based allocation of cartel damages or the design of webpage rankings With its interdisciplinary focus the book seeks to bridge the gap between different disciplinary approaches by pointing to open questions that can only be resolved through collaborative efforts

Case-Based Approximate Reasoning
Eyke Hüllermeier, 2007-03-20 Making use of different frameworks of approximate reasoning and reasoning under uncertainty notably probabilistic and fuzzy set based techniques this book develops formal models of the above inference principle which is fundamental to CBR The case based approximate reasoning methods thus obtained especially emphasize the heuristic nature of case based inference and aspects of uncertainty in CBR

Voting Paradoxes and How to Deal with Them
Hannu Nurmi, 2013-04-17 Voting paradoxes are unpleasant surprises encountered in voting Typically they suggest that something is wrong with the way in which individual opinions are being expressed or processed in voting The outcomes are bizarre unfair or otherwise implausible given the expressed opinions of voters Voting paradoxes have an important role in the history of social choice theory The founding fathers of the theory Marquis de Condorcet and Jean Charles de Borda were keenly aware of some of them Indeed much of the work of these and other forerunners of the modern social choice theory dealt with ways of avoiding paradoxes related to voting One of the early paradoxes viz that bearing the name of Condorcet has subsequently gained such a prominent place in the literature that it is sometimes called the paradox of voting One of the aims of the present work is to show that Condorcet's is but one of many paradoxes of voting Some of these are pretty closely interrelated making it meaningful to classify them This is the second main aim of this book The third objective is to suggest ways of dealing with paradoxes Since voting is and has always been an essential instrument of democratic rule it is of some interest to find out how voting paradoxes are being dealt with by past and present methods of voting Of even greater interest is to find ways of minimizing the probability of occurrence of various paradoxes By their very nature some paradoxes are unavoidable

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