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SERIES B: MATHEMATICAL AND STATISTICAL METHODS

M. PIRLOT AND PH. VINCKE

SEMIORDERS

Properties, Representations, Applications

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Semiorders Properties Representations Applications

Herbert Toth



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Semiorders Marc Pirlot, P. Vincke, 2013-03-09 Semiorder is probably one of the most frequently ordered structures in science. It naturally appears in fields like psychometrics, economics, decision sciences, linguistics, and archaeology. It explicitly takes into account the inevitable imprecisions of scientific instruments by allowing the replacement of precise numbers by intervals. The purpose of this book is to dissect this structure and to study its fundamental properties. The main subjects treated are the numerical representations of semiorders, the generalizations of the concept to valued relations, the aggregation of semiorders, and their basic role in a general theoretical framework for multicriteria decision aid methods. Audience: This volume is intended for students and researchers in the fields of decision analysis, management science, operations research, discrete mathematics, classification, social choice theory, and order theory, as well as for practitioners in the design of decision tools.

Multicriteria Decision Making Tomas Gal, Theodor Stewart, Thomas Hanne, 2013-03-09 At a practical level, mathematical programming under multiple objectives has emerged as a powerful tool to assist in the process of searching for decisions which best satisfy a multitude of conflicting objectives, and there are a number of distinct methodologies for multicriteria decision making problems that exist. These methodologies can be categorized in a variety of ways, such as form of model (e.g. linear, non-linear, stochastic), characteristics of the decision space (e.g. finite or infinite), or solution process (e.g. prior specification of preferences or interactive). Scientists from a variety of disciplines (mathematics, economics, and psychology) have contributed to the development of the field of Multicriteria Decision Making. MCDM or Multicriteria Decision Analysis, MCDA, Multiattribute Decision Making, MADM, Multiobjective Decision Making, MODM, etc., over the past 30 years, helping to establish MCDM as an important part of management science. MCDM has become a central component of studies in management science, economics, and industrial engineering in many universities worldwide.

Multicriteria Decision Making: Advances in MCDM Models, Algorithms, Theory, and Applications aims to bring together state-of-the-art reviews and the most recent advances by leading experts on the fundamental theories, methodologies, and applications of MCDM. This is aimed at graduate students and researchers in mathematics, economics, management, and engineering, as well as at practicing management scientists who wish to better understand the principles of this new and fast-developing field.

Beliefs, Interactions and Preferences Mark J. Machina, Bertrand Munier, 2013-03-09 Beliefs, Interactions, and Preferences in Decision Making mixes a selection of papers presented at the Eighth Foundations and Applications of Utility and Risk Theory (FUR VIII) conference in Mons, Belgium, together with a few solicited papers from well-known authors in the field. This book addresses some of the questions that have recently emerged in the research on decision making and risk theory. In particular, authors have modeled more and more as interactions between the individual and the environment or between different individuals, the emergence of beliefs, as well as the specific type of information treatment traditionally called rationality. This book analyzes several cases of such an interaction and derives consequences for the future of decision

theory and risk theory In the last ten years modeling beliefs has become a specific sub field of decision making particularly with respect to low probability events Rational decision making has also been generalized in order to encompass in new ways and in more general situations than it used to be fitted to multiple dimensions in consequences This book deals with some of the most conspicuous of these advances It also addresses the difficult question to incorporate several of these recent advances simultaneously into one single decision model And it offers perspectives about the future trends of modeling such complex decision questions The volume is organized in three main blocks The first block is the more traditional one It deals with new extensions of the existing theory as is always demanded by scientists in the field A second block handles specific elements in the development of interactions between individuals and their environment as defined in the most general sense The last block confronts real world problems in both financial and non financial markets and decisions and tries to show what kind of contributions can be brought to them by the type of research reported on here

Relations: Concrete, Abstract, And Applied - An Introduction Herbert Toth, 2020-06-22 The book is intended as an invitation to the topic of relations on a rather general basis It fills the gap between the basic knowledge offered in countless introductory papers and books usually comprising orders and equivalences and the highly specialized monographs on mainly relation algebras many valued fuzzy relations or graphs This is done not only by presenting theoretical results but also by giving hints to some of the many interesting application areas also including their respective theoretical basics This book is a new and the first of its kind compilation of known results on binary relations It offers relational concepts in both reasonable depth and broadness and also provides insight into the vast diversity of theoretical results as well as application possibilities beyond the commonly known examples This book is unique by the spectrum of the topics it handles As indicated in its title these are

Utility Maximization, Choice and Preference Fuad Aleskerov, Bernard Monjardet, 2013-04-18 A classically rational subject is a maximiser he chooses the best alternative s according to some utility function a paradigm going back to the eighteenth century One of the ways to overcome its well known deficiencies is to extend it to take into account insensitivity threshold as well as the context of choice This book gives a systematic overview on the extended utility maximisation theory covering the classic theory the theory of utility maximisation within a context free or context dependent threshold and the related preference and choice models The presented models will be helpful to specialists in economics decision making theory social choice theory behavioral and cognitive sciences and related fields

Decision Making Process Denis Bouyssou, Didier Dubois, Henri Prade, Marc Pirlot, 2013-05-10 This book provides an overview of the main methods and results in the formal study of the human decision making process as defined in a relatively wide sense A key aim of the approach contained here is to try to break down barriers between various disciplines encompassed by this field including psychology economics and computer science All these approaches have contributed to progress in this very important and much studied topic in the past but none have proved sufficient so far to define a complete understanding of the highly complex processes and outcomes

This book provides the reader with state of the art coverage of the field essentially forming a roadmap to the field of decision analysis. The first part of the book is devoted to basic concepts and techniques for representing and solving decision problems ranging from operational research to artificial intelligence. Later chapters provide an extensive overview of the decision making process under conditions of risk and uncertainty. Finally there are chapters covering various approaches to multi criteria decision making. Each chapter is written by experts in the topic concerned and contains an extensive bibliography for further reading and reference.

Relations and Kleene Algebra in Computer Science Rudolf Berghammer, Bernhard Möller, Georg Struth, 2008-04-12 Constituting the refereed proceedings of the 10th International Conference on Relational Methods in Computer Science RelMiCS 2008 and the 5th International Conference on Applications of Kleene Algebras these papers were selected from numerous submissions.

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 of 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.

The Oxford Handbook of Public Choice Roger D. Congleton, Bernard Grofman, Stefan Voigt, 2019 This two volume collection provides a comprehensive overview of the past seventy years of public choice research written by experts in the fields surveyed. The individual chapters are more than simple surveys but provide readers with both a sense of the progress made and puzzles that remain. Most are written with upper level undergraduate and graduate students in economics and political science in mind but many are completely accessible to non expert readers who are interested in Public Choice research. The two volume set will be of broad interest to social scientists, policy analysts and historians.

Information Processing and Management of Uncertainty in Knowledge-Based Systems Eyke Hüllermeier, Rudolf Kruse, Frank Hoffmann, 2010-06-29 The International Conference on Information Processing and Management of uncertainty in Knowledge Based Systems IPMU is organized every two years with the aim of bringing together scientists working on methods for the management of uncertainty and aggregation of information in intelligent systems. Since 1986 this conference has been providing a forum for the exchange of ideas between theoreticians and practitioners working in these areas and related fields. The 13 IPMU conference took place in Dortmund Germany June 28 July 2 2010. This volume contains 79 papers selected through a rigorous reviewing process. The

contributions reflect the richness of research on topics within the scope of the conference and represent several important developments specifically focused on theoretical foundations and methods for information processing and management of uncertainty in knowledge based systems We were delighted that Melanie Mitchell Portland State University USA Nihkil R Pal Indian Statistical Institute Bernhard Schölkopf Max Planck Institute for Biological Cybernetics Tübingen Germany and Wolfgang Wahlster German Research Center for Artificial Intelligence Saarbrücken accepted our invitations to present keynote lectures Jim Bezdek received the Kampé de Fériet Award granted every two years on the occasion of the IPMU conference in view of his eminent research contributions to the handling of uncertainty in clustering data analysis and pattern recognition

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