M. PIRLOT AND PH. VINCKE

SEMIORDERS

Properties, Representations, Applications

Semiorders Properties Representations Applications

Marc Pirlot,P. Vincke

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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

Mathematical Topics on Representations of Ordered Structures and Utility Theory Gianni Bosi,María J. Campión,Juan C. Candeal,Esteban Indurain,2020-01-23 This book offers an essential review of central theories current research and applications in the field of numerical representations of ordered structures It is intended as a tribute to Professor Ghanshyam B Mehta one of the leading specialists on the numerical representability of ordered structures and covers related applications to utility theory mathematical economics social choice theory and decision making Taken together the carefully selected contributions provide readers with an authoritative review of this research field as well as the knowledge they need to apply the theories and methods in their own work *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 deficiences is to extend it to take into account insenitivity 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 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   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 certainty 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 th theoreticians and practitioners working in these areas and related elds 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 re ect the richness of research on topics within the scope of the conference and represent several important developments speci cally 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 Sch olkopf Max Planck I titute for Biological Cybernetics Tubing en Germany and Wolfgang Wahlster German Research Center for Arti cial Intelligence Saarbruc ken accepted our invitations to present keynote lectures Jim Bezdek received the Kamp ede F eriet 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   Evaluation and Decision Models with Multiple Criteria Denis Bouyssou,Thierry Marchant,Marc Pirlot,Alexis Tsoukias,Philippe Vincke,2006-06-07 Formal decision and evaluation models are sets of explicit and well defined rules to collect assess and process information in order to be able to make recommendations in decision and or evaluation processes They are so widespread that almost no one can pretend not to have used or suffered the consequences of one of them Our earlier companion volume Evaluation and Decision Models heavily criticised formal models but also argued that they could be useful On the other hand Evaluation and Decision Models with Multiple Criteria is a guide aimed at helping the analyst to choose a model and use it consistently We propose a sound analysis of techniques and our presentation can be extended to most decision and evaluation models as a decision aiding methodology This volume is intended for the enlightened practitioner for anyone who uses decision or evaluation models for research or for applications and is willing to question his practice to have a deeper understanding of what he does
   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   **Aiding Decisions with Multiple Criteria** Denis Bouyssou,Eric Jacquet-Lagrèze,Patrice Perny,Roman Slowiński,Daniel Vanderpooten,P. Vincke,2012-12-06 Aiding Decisions With Multiple Criteria Essays in Honor of Bernard Roy is organized around two broad themes Graph Theory with path breaking contributions on the theory of flows in networks and project

scheduling Multiple Criteria Decision Aiding with the invention of the family of ELECTRE methods and methodological contribution to decision aiding which lead to the creation of Multi Criteria Decision Analysis MCDA Professor Bernard Roy has had considerable influence on the development of these two broad areas LIST Part one contains papers by Jacques Lesourne and Dominique de Werra Alexis Tsouki s Patrice Perny Luis Dias Daniel Vanderpooten Michael Doumpos and Marc Roubens offer a considerable range of examinations of this aspect of MCDA Part four is devoted to Perference Modeling with contributions from Peter Fishburn Salvatore Greco Benedetto Matarazzo Salem Benferhat Didier Dubois Oscar Franzese Bertrand Munier and Raymond Bisdorff Part five groups Applications of Multi Criteria Decision Aiding and Carlos Henggeler Antunes Carla Oliveira Carlos Bana e Costa Manuel da Costa Lobo Isabel Ramos Yannis Siskos Jean Pierre Brans Pierre Kunsch Bertrand Mareschal offer a wide variety of application problems Finally Part six includes contributions on Multi Objective Mathematical Programming from Jacques Teghem Walter Habenicht and Pekka Korhonen **Descriptive And Normative Approaches To Human Behavior** Lacey Perry,Ehtibar N Dzhafarov,2011-09-13 The aim of the book is to present side by side representative and cutting edge samples of work in mathematical psychology and the analytic philosophy with prominent use of mathematical formalisms **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 prob lems many of them created by man himself These include overpopulation air and water pollution global warming accumulation of greenhouse gases darnage 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 con sequence 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 extinc tion and depletion of biological resources were seen as major threats to human welfare It was therefore natural for scientists from different disci plines to seek reasons behind these developments We were no exceptions and when opportunity to interact with ecologists as statistreal consultants came we found ourselves reading more and more of ecology and evolution ary biology Several years ago we proposed starting of an elective one semester course on statistical ecology for graduate students of statistics of Pune University **A Guided Tour of Artificial Intelligence Research** Pierre Marquis,Odile Papini,Henri Prade,2020-05-08 The purpose of this book is to provide an overview of AI research ranging from basic work to interfaces and applications with as much emphasis on results as on current issues It is aimed at an audience of master students and Ph D students and can be of interest as well for researchers and engineers who want to know more about AI The book is split into three volumes the first volume brings together twenty three chapters dealing with the foundations of knowledge representation and the formalization of reasoning and learning Volume 1 Knowledge representation reasoning and learning the second volume offers a view of AI in fourteen chapters from the side of the

algorithms Volume 2 AI Algorithms the third volume composed of sixteen chapters describes the main interfaces and applications of AI Volume 3 Interfaces and applications of AI Implementing reasoning or decision making processes requires an appropriate representation of the pieces of information to be exploited This first volume starts with a historical chapter sketching the slow emergence of building blocks of AI along centuries Then the volume provides an organized overview of different logical numerical or graphical representation formalisms able to handle incomplete information rules having exceptions probabilistic and possibilistic uncertainty and beyond as well as taxonomies time space preferences norms causality and even trust and emotions among agents Different types of reasoning beyond classical deduction are surveyed including nonmonotonic reasoning belief revision updating information fusion reasoning based on similarity case based interpolative or analogical as well as reasoning about actions reasoning about ontologies description logics argumentation and negotiation or persuasion between agents Three chapters deal with decision making be it multiple criteria collective or under uncertainty Two chapters cover statistical computational learning and reinforcement learning other machine learning topics are covered in Volume 2 Chapters on diagnosis and supervision validation and explanation and knowledge base acquisition complete the volume   Finite Ordered Sets Nathalie Caspard,Bruno Leclerc,Bernard Monjardet,2012-01-26 Ordered sets are ubiquitous in mathematics and have significant applications in computer science statistics biology and the social sciences As the first book to deal exclusively with finite ordered sets this book will be welcomed by graduate students and researchers in all of these areas Beginning with definitions of key concepts and fundamental results Dilworth s and Sperner s theorem interval and semiorders Galois connection duality with distributive lattices coding and dimension theory the authors then present applications of these structures in fields such as preference modelling and aggregation operational research and management cluster and concept analysis and data mining Exercises are included at the end of each chapter with helpful hints provided for some of the most difficult examples The authors also point to further topics of ongoing research   **Multiple Criteria Decision Analysis: State of the Art Surveys** Salvatore Greco,2006-01-20 Multiple Criteria Decision Analysis State of the Art Surveys provides survey articles and references of the seminal or state of the art research on MCDA The material covered ranges from the foundations of MCDA over various MCDA methodologies outranking methods multiattribute utility and value theories non classical approaches to multiobjective mathematical programming MCDA applications and software This vast amount of material is organized in 8 parts with a total of 25 chapters More than 2000 references are listed   Multiple Criteria Decision Analysis Salvatore Greco,Matthias Ehrgott,José Rui Figueira,2016-02-18 In two volumes this new edition presents the state of the art in Multiple Criteria Decision Analysis MCDA Reflecting the explosive growth in the field seen during the last several years the editors not only present surveys of the foundations of MCDA but look as well at many new areas and new applications Individual chapter authors are among the most prestigious names in MCDA research and combined their chapters bring the field completely up to date Part I of the

book considers the history and current state of MCDA with surveys that cover the early history of MCDA and an overview that discusses the pre theoretical assumptions of MCDA Part II then presents the foundations of MCDA with individual chapters that provide a very exhaustive review of preference modeling along with a chapter devoted to the axiomatic basis of the different models that multiple criteria preferences Part III looks at outranking methods with three chapters that consider the ELECTRE methods PROMETHEE methods and a look at the rich literature of other outranking methods Part IV on Multiattribute Utility and Value Theories MAUT presents chapters on the fundamentals of this approach the very well known UTA methods the Analytic Hierarchy Process AHP and its more recent extension the Analytic Network Process ANP as well as a chapter on MACBETH Measuring Attractiveness by a Categorical Based Evaluation Technique Part V looks at Non Classical MCDA Approaches with chapters on risk and uncertainty in MCDA the decision rule approach to MCDA the fuzzy integral approach the verbal decision methods and a tentative assessment of the role of fuzzy sets in decision analysis Part VI on Multiobjective Optimization contains chapters on recent developments of vector and set optimization the state of the art in continuous multiobjective programming multiobjective combinatorial optimization fuzzy multicriteria optimization a review of the field of goal programming interactive methods for solving multiobjective optimization problems and relationships between MCDA and evolutionary multiobjective optimization EMO Part VII on Applications selects some of the most significant areas including contributions of MCDA in finance energy planning problems telecommunication network planning and design sustainable development and portfolio analysis Finally Part VIII on MCDM software presents well known MCDA software packages

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