

**Multiple Criteria Analysis
for Agricultural Decisions**

SECOND EDITION

Carlos Romero and Tahir Rehman

Multiple Criteria Analysis For Agricultural Decisions

Robin G. Brumfield



Multiple Criteria Analysis For Agricultural Decisions:

Multiple Criteria Analysis for Agricultural Decisions, Second Edition C. Romero, T. Rehman, 2003-03-21 Cover Contents Preface Acknowledgements Part one Multiple criteria in agricultural decisions Chapter 1 Main features of the multiple criteria decision making paradigm Criticism of the traditional paradigm for decision making Economic versus technological decisions Multiple objectives and goals in agricultural economics Historical origins of the MCDM paradigm Plan of the book Suggestions for further reading Chapter 2 Some basic concepts Attributes objectives and goals Distinction between goals and constraints Pareto optimality Trade offs between decision making criteria A first approximation of the main MCDM approaches Suggestions for further reading Part two Multiple criteria decision making techniques Chapter 3 Goal programming Introductory example for handling multiple criteria in a farm planning model The role of deviational variables in goal programming Lexicographic goal programming Sensitivity analysis

Multiple Criteria Analysis for Agricultural Decisions Carlos Romero, Tahir Rehman, 1989-01-01 Despite the recognition given to the existence of multiple objectives in agricultural decision making very little seems to have been done by agricultural economists to develop and use methodologies that model the decision situations realistically This is particularly intriguing when one notices the amount of effort that has been devoted to the development and use of multi criteria decision making MCDM techniques in disciplines such as management science water resources research and forest planning There are virtually no text books available in agricultural economics which explain the nature and structure of MCDM techniques and demonstrate how they can be used to model decisions involving multiple objectives There is a need for such a book and this book attempts to fill the gap It is divided into three parts The first comprising two chapters is philosophical in nature and deals with the rationale behind the use of multiple criteria decision making MCDM techniques in decision making and the fundamental concepts that must be understood to grasp the nature of these methods The second and largest part contains five chapters each dealing with the logical structure of a specific MCDM technique and how it is used to model a particular decision problem Some applications to agricultural problems are presented in the last five chapters contained in the final part The book is designed to be used both as a reference and a text An understanding of the conceptual basis of most of the MCDM techniques presented here should not be beyond those with basic knowledge of linear algebra and linear programming

Multiple Criteria Analysis for Agricultural Decisions, Second Edition C. Romero, T. Rehman, 2003-03-21 This book presents the Multiple Criteria Decision Making MCDM paradigm for modelling agricultural decision making in three parts The first part comprising two chapters is philosophical in nature and deals with the concepts that define the underlying structure of the MCDM paradigm The second part is the largest part consisting of five chapters each of which presents the logic of a specific MCDM technique and demonstrates how it can be used to model a particular decision problem In the final part some selected applications of the MCDM techniques to agricultural problems are presented and thus reinforce the development of an understanding of the

MCDM paradigm The book has been designed for use at different levels as a textbook for final year undergraduate and postgraduate courses in modelling for decision making as a manual for researchers and practising modellers and as general reference on the application of MCDM techniques Readers with basic appreciation of algebra and linear programming can easily follow the contents of this book **Multicriteria Analysis in Agriculture** Julio Berbel, Thomas Bournaris, Basil Manos, Nikolaos Matsatsinis, Davide Viaggi, 2018-06-18 This book outlines the latest trends in the use of multicriteria analysis in agriculture by highlighting recent applications for modeling agricultural decision making It introduces specific case studies using multicriteria analysis as a method for selecting multiattribute discrete alternatives or solving multiobjective planning problems The book is intended for a broad readership including agricultural and environmental economists engineers and all scientists whose work involves the management of agricultural resources and decision making in agriculture The methods and applications presented in this book cover decision making processes in agricultural and environmental contexts The methodologies described consider multiple criteria simultaneously in a wide range of complex decision making contexts by taking into account multiple conflicting criteria Given the wide range of case studies covered the book offers a comprehensive guide to decision making in the agricultural context and beyond **Information Constraints**

in Agricultural Development in Tanzania Agricultural Economics Society of Tanzania. Scientific Conference, 2002

Journal of agricultural economics research United States. Dept. of Agriculture. Economic Research Service, 1990

Multicriteria Analysis for Land-Use Management E. Beinart, Peter Nijkamp, 1998-07-31 Contributors from many disciplines and backgrounds discuss MCA as an integrated approach to land use management Sections cover problem structuring for land use management multiple perspectives trade offs and the search for compromise and acceptable solutions multiple actors and multiple perspectives in land use decisions spatial information and the integration of spatial analysis and multicriteria analysis and the future of land use management The wide range of case studies include exotic forest plantations in South Africa forests in the Kathmandu valley and sustainable agriculture in Greece No index Annotation copyrighted by Book News Inc Portland OR **Issues in Agricultural Competitiveness Markets and Policies**, 1997 This volume is made up of 45 papers together with the opening discussion and summary of general discussions presented at the 22nd International Conference for Agricultural Economists held in Harare in 1994 The papers cover such topics as women s land rights and sustainable development productivity gaps between European and United States agriculture land rental markets in Sub Saharan Africa optimal pricing of primary commodities in developing countries and the CAP and the unequal public support to European agriculture

Economic Planning, 1990 **Modelling Methods for Policy Analysis in**

Miombo Woodlands, 2001 **Journal of the Asian Farming Systems Association**, 1993 **Fourth**

Minnesota/Padova Conference on Food, Agriculture, and the Environment, 1995 This conference focused on 1 agricultural and trade policy 2 land markets 3 the food and agricultural industry 4 agriculture and environmental and health

concerns and 5 agricultural production and environmental quality and sustainability Foreword Quarterly Journal of International Agriculture ,1994 Multicriterion Optimization and Its Utilization in Agriculture Jozef Pitel,1990 The focus of this publication lies in the procedures by which the problems of multicriterion optimization can be solved Each procedure is described and defined mathematically then demonstrated with an example Both the positive and the negative facets of the proposed single methods are evaluated and criteria for appropriate application are given All the methods described are divided into relatively homogenous groups on the basis of their characteristic properties The practical applicability of separate procedures is demonstrated on models which satisfy the requirements of planning and managerial practice in agriculture Attention is also paid to some special questions from the field of systems analysis and the theory of model construction areas closely related to the problem being examined In this way one can achieve a complete overview of multicriterion optimization which will enable a critical judgement of its potential effect **Operations Research Models for Problems Concerning Natural Resources** ,2000 *Thirteenth International Symposium on Horticultural Economics* Robin G. Brumfield,1996 **Applications of Rice Modelling** Hein F. M. ten Berge,Pramod K. Aggarwal,Martin J. Kropff,1997 **Regional Sustainability** Irene Ring,1999-08-19 This book presents interdisciplinary approaches towards achieving regional sustainability The relevance of interdisciplinary research and its consequences for economic research into the environment are elaborated and new approaches are developed to integrate knowledge from ecological and social sciences into economic research Regional Sustainability includes the development of theoretical concepts as well as applied regional case studies relating to nature conservation and agricultural policies coastal management and air pollution problems Centered around the themes of decision making processes modelling as support for policy analysis and the evaluation of policies it successfully addresses problems facing researchers and policy makers in the context of regional sustainable development The book pays special attention to human behaviour and stakeholders in decision making processes and contributes to the transition from ecological economics to socio ecological economics *Water Resources Management II C.* A. Brebbia,2003 As population increase boosts demand and pollution and climate change adversely affect availability the management of water resources is becoming an issue of growing importance and complexity throughout the world

Economía y control de las enfermedades animales International Office of Epizootics,1999

Whispering the Techniques of Language: An Psychological Quest through **Multiple Criteria Analysis For Agricultural Decisions**

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