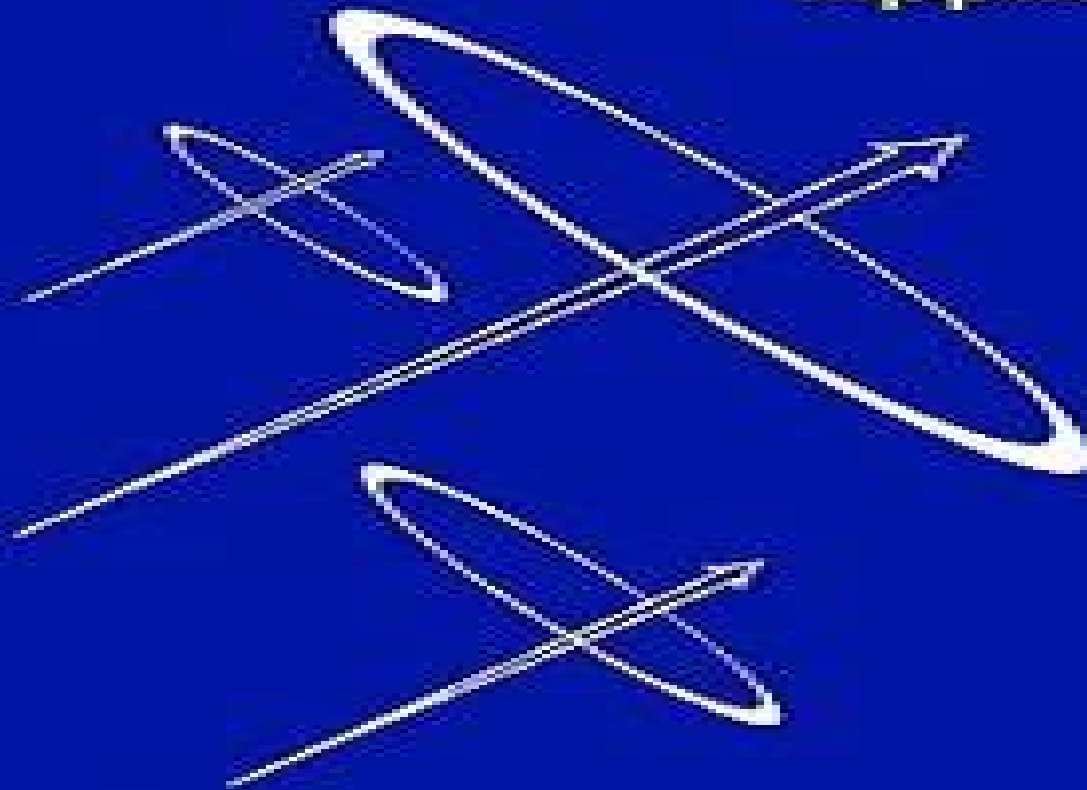


# GOAL PROGRAMMING

Methodology  
and  
Applications



Marc J. Schniederjans

# Goal Programming Methodology And Applications

**Pushpdant Jain, Kumar**  
**Abhishek, Prasenjit Chatterjee**



## Goal Programming Methodology And Applications:

**Goal Programming: Methodology and Applications** Marc Schniederjans, 2012-12-06 Goal Programming Applications in Accounting 74 Goal Programming Applications in Agriculture 76 Goal Programming Applications in Economics 78 Goal Programming Applications in Engineering 79 Goal Programming Applications in Finance 80 Goal Programming Applications in Government 83 Goal Programming Applications in an International Context 88 Goal Programming Applications in Management 90 Goal Programming Applications in Marketing 97 Summary 98 CHAPTER 5 FUTURE TRENDS IN GOAL PROGRAMMING 101 GP is Positioned for Growth 101 Shifting the Life Cycle of GP Research to Growth 103 Summary 107 Reference 108 APPENDIX A TEXTBOOKS READINGS BOOKS AND MONOGRAPHS ON GOAL PROGRAMMING 109 APPENDIX B JOURNAL RESEARCH PUBLICATIONS ON GOAL PROGRAMMING 113 INDEX 213 viii LIST OF FIGURES Figure 1 1 Summary Relationship of GP with MS OR and MCDM Figure 1 2 Frequency Distribution for GP Journal Publications Figure 1 3 Life Cycle of GP Research Figure 2 1 Set of GP Efficient Solutions Figure 5 1 Life Cycle of GP Research ix LIST OF TABLES Table 1 1 MS OR Topics and Their Related GP Topics Table 1 2 MCDM Subareas and Their Related GP Topics Table 1 3 Frequency Listing of GP Journal Publications and Book Titles Table 2 1 Solutions for a Dominated GP Problem Table 2 2 Conversion of LP Constraints to Goal Constraints Table 2 3 GP Citations on Dominance Inferiority and Inefficiency Table 2 4 GP Citations on Relative Weighting Prioritization and Incommensurability Table 2 5 MS OR Topics and Their Related GP Topics Table 3 1 Citations on Weighted Preemptive GP Methodology Table 3 2 Citations on Pure Mixed Integer GP Methodology Table 3 3 SINGLE-OBJECTIVE LINEAR GOAL PROGRAMMING PROBLEM WITH NEUTROSOPHIC NUMBERS Durga Banerjee, Surapati Pramanik, This paper deals with single objective linear goal programming problem with neutrosophic numbers The coefficients of objective function and the constraints are considered as neutrosophic numbers of the form  $p \oplus qI$  where  $p, q$  are real numbers and  $I$  denotes indeterminacy In the solution process the neutrosophic numbers are transformed into interval numbers **Multi-level linear programming problem with neutrosophic numbers: A goal programming strategy** Surapati Pramanik, Partha Pratim Dey, In the paper we propose an alternative strategy for multi level linear programming MLP problem with neutrosophic numbers through goal programming strategy Multi level linear programming problem consists of  $k$  levels where there is an upper level at the first level and multiple lower levels at the second level with one objective function at every level **Bi-level Linear Programming Problem with Neutrosophic Numbers** Surapati Pramanik, Partha Pratim Dey, The paper presents a novel strategy for solving bi level linear programming problem based on goal programming in neutrosophic numbers environment Bi level linear programming problem comprises of two levels namely upper or first level and lower or second level with one objective at each level The objective function of each level decision maker and the system constraints are considered as linear functions with neutrosophic numbers of the form  $p \oplus qI$  where  $p, q$  are real numbers and  $I$  represents indeterminacy *Goal*

*Programming Techniques for Bank Asset Liability Management* Kyriaki Kosmidou, Constantin Zopounidis, 2006-04-18 Other publications that exist on this topic are mainly focused on the general aspects and methodologies of the field and do not refer extensively to bank ALM. On the other hand the existing books on goal programming techniques do not involve the ALM problem and more specifically the bank ALM one. Therefore there is a lack in the existing literature of a comprehensive text book that combines both the concepts of bank ALM and goal programming techniques and illustrates the contribution of goal programming techniques to bank ALM. This is the major contributing feature of this book and its distinguishing characteristic as opposed to the existing literature. This volume would be suitable for academics and practitioners in operations research management scientists financial managers bank managers economists and risk analysts. The book can also be used as a textbook for graduate courses of asset liability management financial risk management and banking risks.

**Neutrosophic Sets and Systems** Florentin Smarandache, Said Broumi, Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc.

**Neutrosophic Sets and Systems: An International Book Series in Information Science and Engineering, vol. 21 / 2018** Florentin Smarandache, Said Broumi, 2018 Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc.

**Investment Portfolio Selection Using Goal Programming** Rania Azmi, 2014-10-16 This book provides both practitioners and academics with a scientific approach to portfolio selection using Goal Programming an approach which is capable as far as is possible of achieving a required set of preferences deemed appropriate by a decision maker. Goal Programming is perhaps the most widely used approach in the field of multiple criteria decision making that enables the decision maker to incorporate numerous variations of constraints and goals. The original portfolio selection problem with risk and return optimisation can be viewed as a case of Goal Programming with two objectives. Additional objectives representing other factors such as liquidity can be introduced for a more realistic approach to portfolio selection problems. This book comes in a time where scientific frameworks for investment decision making are absolutely necessary that is after the recent financial and economic crisis where irrational decisions and a misuse of mathematical models had equally fed into the spiral of the financial crisis. The real world decision problems are usually changeable complex and resist treatment with conventional approaches. Therefore the optimisation of a single objective subject to a set of rigid constraints is in most cases unrealistic and that is why Goal Programming was introduced in an attempt to eliminate or at least mitigate this shortcoming. Most mathematical models are based on very strong theoretical assumptions which are not entirely respected by markets in practice. In contrast Goal Programming models are based on real

world cases where the most feasible solution is sought as opposed to an ideal simplified solution Therefore this book provides practitioners with a new and superior scientific framework for investment decision making while aiming to stimulate further research and development Moreover the book provides scientific approaches for portfolio selection with Goal Programming which will provide added value for practitioners in complementing their financial expertise with a sound scientific decision making framework

**Practical Goal Programming** Dylan Jones,Mehrdad Tamiz,2010-03-10 Practical Goal Programming is intended to allow academics and practitioners to be able to build effective goal programming models to detail the current state of the art and to lay the foundation for its future development and continued application to new and varied fields Suitable as both a text and reference its nine chapters first provide a brief history fundamental definitions and underlying philosophies and then detail the goal programming variants and define them algebraically Chapter 3 details the step by step formulation of the basic goal programming model and Chapter 4 explores more advanced modeling issues and highlights some recently proposed extensions Chapter 5 then details the solution methodologies of goal programming concentrating on computerized solution by the Excel Solver and LINGO packages for each of the three main variants and includes a discussion of the viability of the use of specialized goal programming packages Chapter 6 discusses the linkages between Pareto Efficiency and goal programming Chapters 3 to 6 are supported by a set of ten exercises and an Excel spreadsheet giving the basic solution of each example is available at an accompanying website Chapter 7 details the current state of the art in terms of the integration of goal programming with other techniques and the text concludes with two case studies which were chosen to demonstrate the application of goal programming in practice and to illustrate the principles developed in Chapters 1 to 7 Chapter 8 details an application in healthcare and Chapter 9 describes applications in portfolio selection

*Operations Research and Management Science Handbook* A. Ravi Ravindran,2016-04-19 Operations Research OR began as an interdisciplinary activity to solve complex military problems during World War II Utilizing principles from mathematics engineering business computer science economics and statistics OR has developed into a full fledged academic discipline with practical application in business industry government and m

**Decision-Making Models and Applications in Manufacturing Environments** Pushpdant Jain,Kumar Abhishek,Prasenjit Chatterjee,2024-02-20 Multi criteria decision making MCDM has gained vast popularity for its ability to help make decisions in the presence of various similar and conflicting choices This new volume applies the MCDM theory to solving problems and challenges in manufacturing environments It discusses using MCDM computational methods to evaluate and select the most optimal solution or method for real world real time manufacutring engineering issues It details the decision making process in relation materials selection identification assessment and evaluation of risk sustainability assessment selection of green suppliers and more The chapter authors demonstrate the application of myriad MCDM techniques in decision making including MADM multiple attribute decision making DEA data envelopment analysis fuzzy TOPSIS technique for order preference by similarities to

ideal solution fuzzy VIKOR multicriteria optimization and compromise solution MOORA multi objective optimization on the basis of ratio analysis EWM entropy weight method AHP analytic hierarchy process TODIM TOMada de Decisao Interativa Multicriterio and others The volume illustrates these MCDM models in several industries and industrial processes including for experimental analysis and optimization of drilling of glass fiber reinforced plastic in the textile industries for selection of refrigerants for domestic applications and others

### **Decision Making: Recent Developments and Worldwide**

**Applications** Stelios H. Zanakis, Georgios Doukidis, Constantin Zopounidis, 2013-04-17 This chapter describes a study conducted at the Swinburne University of Technology in Australia in their School of Business The study was to explore the applicability of a judgment analytic decision support system to the assessment of the likelihood of an applicant being selected for admission to the School's Graduate Certificate in Business Administration GCBA program The likelihood of a program administrator selecting a particular applicant is directly linked to the assessment of the likelihood of that applicant's success in the GCBA program The purpose of this study in effect was to analyze the administrative judgment process in assessment of an applicant's likelihood of success in the program THE PROCESS OF HUMAN JUDGMENT Human judgment is a process through which an individual uses social information to make decisions The social information is obtained from an individual's environment and is interpreted through the individual's cognitive image of the environment The cognitive image provides a representation of the environment based on past experiences and training and essentially predisposes the person to respond to social information in predictable ways An individual's policies or beliefs about the environment represent these patterns Human judgments are based then upon one's interpretation of available information They are probability statements about one's environment and how one reacts to it This condition leads to the human judgment process being inherently limited It is fundamentally a covert process It is seldom possible for an individual to accurately describe his or her judgment process accurately

*Recent Theories and Applications for Multi-Criteria Decision-Making* Aouadni, Sourour, Aouadni, Ismahene, 2024-11-01 In an increasingly complex world decision makers face the challenge of optimizing multiple conflicting objectives across various scenarios Multi Criteria Decision Making MCDM techniques have emerged as essential tools for addressing these challenges and offer methods to evaluate alternatives and minimize subjectivity As the landscape of MCDM evolves with new approaches such as fuzzy set theory rough set theory and neutrosophic set theory decision making in situations involving varied and complex data becomes more reliable and consistent Recent Theories and Applications for Multi Criteria Decision Making explores the latest trends and innovations in this field The book includes thought provoking input from renowned researchers who cover case studies real world applications challenges and cutting edge methodologies It highlights the integration of advanced technologies such as AI big data and IoT with MCDM while offering practical insights into strategic decision making in today's digital age This volume serves as a valuable resource for scholars practitioners and researchers keen to improve their decision making capacity

### **Optimization for Decision Making** Katta

G. Murty, 2010-03-14 Linear programming LP modeling and optimization are very much the fundamentals of OR and no academic program is complete without them. No matter how highly developed one's LP skills are, however, if a fine appreciation for modeling isn't developed to make the best use of those skills, then the truly best solutions are often not realized and efforts go wasted. Katta Murty studied LP with George Dantzig, the father of linear programming, and has written the graduate level solution to that problem. While maintaining the rigorous LP instruction required, Murty's new book is unique in his focus on developing modeling skills to support valid decision making for complex real world problems. He describes the approach as intelligent modeling and decision making to emphasize the importance of employing the best expression of actual problems and then applying the most computationally effective and efficient solution technique for that model.

**Neutrosophic Sets and Systems, Book Series, Vol. 29, 2019** Florentin Smarandache, Mohamed Abdel-Basset, Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy: neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra, geometry, topology, etc.

Multiple Criteria Decision Aid Jason Papathanasiou, Nikolaos Ploskas, 2018-09-19 Multiple criteria decision aid (MCDA) methods are illustrated in this book through theoretical and computational techniques utilizing Python. Existing methods are presented in detail with a step by step learning approach. Theoretical background is given for TOPSIS, VIKOR, PROMETHEE, SIR, AHP, goal programming and their variations. Comprehensive numerical examples are also discussed for each method in conjunction with easy to follow Python code. Extensions to multiple criteria decision making algorithms such as fuzzy number theory and group decision making are introduced and implemented through Python as well. Readers will learn how to implement and use each method based on the problem, the available data, the stakeholders involved and the various requirements needed. Focusing on the practical aspects of the multiple criteria decision making methodologies, this book is designed for researchers, practitioners and advanced graduate students in the applied mathematics, information systems, operations research and business administration disciplines as well as other engineers and scientists oriented in interdisciplinary research. Readers will greatly benefit from this book by learning and applying various MCDM methods.

Adiel Teixeira de Almeida, CDSID Center for Decision System and Information Development, Universidade Federal de Pernambuco, Recife, Brazil. Promoting the development and application of multicriteria decision aid is essential to ensure more ethical and sustainable decisions. This book is a great contribution to this objective. It is a perfect blend of theory and practice, providing potential users and researchers with the theoretical bases of some of the best known methods as well as with the computing tools needed to practice, to compare and to put these methods to use.

Jean Pierre Brans, Vrije Universiteit Brussel, Brussels, Belgium. This book is intended for researchers, practitioners and students alike in decision support who wish to familiarize themselves quickly and efficiently with multicriteria decision aiding algorithms. The proposed approach is original as it presents a selection of methods from the

theory to the practical implementation in Python including a detailed example This will certainly facilitate the learning of these techniques and contribute to their effective dissemination in applications Patrick Meyer IMT Atlantique Lab STICC Univ Bretagne Loire Brest France      Business Analytics with Management Science Models and Methods Arben Asllani,2015 This book is about prescriptive analytics It provides business practitioners and students with a selected set of management science and optimization techniques and discusses the fundamental concepts methods and models needed to understand and implement these techniques in the era of Big Data A large number of management science models exist in the body of literature today These models include optimization techniques or heuristics static or dynamic programming and deterministic or stochastic modeling The topics selected in this book mathematical programming and simulation modeling are believed to be among the most popular management science tools as they can be used to solve a majority of business optimization problems Over the years these techniques have become the weapon of choice for decision makers and practitioners when dealing with complex business systems      **Operations Research Methodologies** A. Ravi Ravindran,2008-11-12 A single source guide to operations research OR techniques this book covers emerging OR methodologies in a clear concise and unified manner Building a bridge between theory and practice it begins with coverage of fundamental models and methods such as linear nonlinear integer and dynamic programming networks simulation queuing invento      **Mathematical Models for Decision Making with Multiple Perspectives** Maria Isabel Gomes,Nelson Chibeles Martins,2022-08-04 This book brings together in a single volume the fields of multicriteria decision making and multiobjective optimization that are traditionally covered separately Both fields have in common the presence of multiple perspectives of looking at and evaluating decisions to be taken but they differ in the number of available alternatives Multicriteria approaches deal with decision processes where a finite number of alternatives have to be evaluated while in multiobjective optimization this number is infinite and the space of alternatives continuous This book is written for students of applied mathematics engineering and economics and management with no assumed previous knowledge on the subject as well as for practitioners in industry looking for techniques to support decision making The mathematical formalism is very low so that all materials are accessible to most readers Nonetheless a rich bibliography allows interested readers to access more technical literature The textbook is organized in eleven chapters each corresponding to a class of about two hours A comprehensive set of examples is presented allowing for a didactic approach when presenting the methodologies Each chapter ends with exercises that are designed to develop problem solving skills and to promote concepts retention      **Information Technology Investment: Decision Making Methodology** Jamie L Hamaker,Marc J Schniederjans,Ashlyn M Schniederjans,2004-02-06 From the individual to the largest organization everyone today has to make investments in information technology Making a good investment that will best satisfy all the necessary decision criteria requires a careful and inclusive analysis Information Technology Investment Decision Making Methodology is a textbook that will provide the understanding of methodologies

available to aid in this area of complex multi criterion decision making It presents a detailed step by step set of procedures and methodologies that readers can use immediately to improve their IT investment decision making Unique to this textbook are both financial investment models and more complex decision making models from management science so users can extend the analysis benefits to confirm and enhance the ideal IT investment choices A complimentary copy of the Instructor s Manual and Test Bank and the PowerPoint presentations of the text materials are available for all instructors who adopt this book as a course text Please send your request to [sales@wspc.com](mailto:sales@wspc.com)

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