

# GOAL PROGRAMMING

Methodology and Applications



by S. Dey, J. K. S. Dey, and J. K. S. Dey

# Goal Programming Methodology And Applications

## Goal Programming Methodology And Applications

**A. Ravi Ravindran**



## **Goal Programming Methodology And Applications 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 PROORAMMING 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 MONOORAPHS ON GOAL PROORAMMING 109 APPENDIX B JOURNAL RESEARCH PUBLICATIONS ON GOAL PROORAMMING 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 WeightedlPreemptive 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

*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

**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 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 manufacturing 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

*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

### **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

### **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

**Vision, Sensing and Analytics: Integrative Approaches** Md Atiqur Rahman Ahad, Atsushi Inoue, 2021-06-05 This book serves as the first guideline of the integrative approach optimal for our new and young generations Recent technology advancements in computer vision IoT sensors and analytics open the door to highly impactful innovations and applications as a result of effective and efficient integration of those Such integration has brought to scientists and engineers a new approach the integrative approach This offers far more rapid development and scalable architecting when comparing to the traditional hardcore developmental approach Featuring biomedical and healthcare challenges including COVID 19 we present a collection of carefully selective cases with significant added values as a result of integrations e g sensing with AI analytics with different data sources and comprehensive monitoring with many different sensors while sustaining its readability

**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

**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

**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

**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

**Comprehensive Chemometrics** Steven Brown, Roma Tauler, Beata Walczak, 2020-05-26 Comprehensive Chemometrics Second Edition Four Volume Set features expanded and updated coverage along with new content that covers advances in the field since the previous edition published in 2009

Subject of note include updates in the fields of multidimensional and megavariate data analysis omics data analysis big chemical and biochemical data analysis data fusion and sparse methods The book follows a similar structure to the previous edition using the same section titles to frame articles Many chapters from the previous edition are updated but there are also many new chapters on the latest developments Presents integrated reviews of each chemical and biological method examining their merits and limitations through practical examples and extensive visuals Bridges a gap in knowledge covering developments in the field since the first edition published in 2009 Meticulously organized with articles split into 4 sections and 12 sub sections on key topics to allow students researchers and professionals to find relevant information quickly and easily Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large audience Presents integrated reviews of each chemical and biological method examining their merits and limitations through practical examples and extensive visuals Bridges a gap in knowledge covering developments in the field since the first edition published in 2009 Meticulously organized with articles split into 4 sections and 12 sub sections on key topics to allow students researchers and professionals to find relevant information quickly and easily Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large audience

Comprehensive Chemometrics ,2009-03-09 Designed to serve as the first point of reference on the subject Comprehensive Chemometrics presents an integrated summary of the present state of chemical and biochemical data analysis and manipulation The work covers all major areas ranging from statistics to data acquisition analysis and applications This major reference work provides broad ranging validated summaries of the major topics in chemometrics with chapter introductions and advanced reviews for each area The level of material is appropriate for graduate students as well as active researchers seeking a ready reference on obtaining and analyzing scientific data Features the contributions of leading experts from 21 countries under the guidance of the Editors in Chief and a team of specialist Section Editors L Buydens D Coomans P Van Espen A De Juan J H Kalivas B K Lavine R Leardi R Phan Tan Luu L A Sarabia and J Trygg Examines the merits and limitations of each technique through practical examples and extensive visuals 368 tables and more than 1 300 illustrations 750 in full color Integrates coverage of chemical and biological methods allowing readers to consider and test a range of techniques Consists of 2 200 pages and more than 90 review articles making it the most comprehensive work of its kind Offers print and online purchase options the latter of which delivers flexibility accessibility and usability through the search tools and other productivity enhancing features of ScienceDirect

**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 A 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

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