

فصل پنجم - برنامه ریزی محذوری (Quadratic Programming)

هر ماده بهینه‌سازی که تابع هدف آن به فرم مجذوری باشد و دارای قیود به فرم خطی باشد، موسوم به برنامه‌ریزی مجذوری می‌باشد. تحلیل برنامه‌ریزی مجذوری به تنهایی کاربرد فراوانی داشته و در عین حال می‌توان آن را در مسائل دیگری نظیر برنامه‌ریزی مجذوری متوالی و روش‌های لاگرانژ افزوده نیز به کار گرفت.

یک فرم کلی، مشابه QP به صورت زیر می‌تواند بیان شود:

$$\begin{aligned} \min \quad & \underline{x} : \quad Q(\underline{x}) = \frac{1}{2} \underline{x}^T G \underline{x} + \underline{x}^T \underline{d} \\ \text{s.t.} \quad & \underline{a}_i^T \underline{x} = b_i, \quad i \in \mathcal{E} \\ & \underline{a}_i^T \underline{x} \geq b_i, \quad i \in \mathcal{I} \end{aligned} \quad (3)$$

به طوری که G یک ماتریس متقارن $n \times n$ ، g و f مجموعه‌های متناهی از ایندکس‌های قیود مساوی و نامساوی (به ترتیب) می‌باشند. همچنین بردارهای d ، g_0 و f_0 همگی دارای n مؤلفه هستند و $f \in \mathbb{R}^n$ ، $g \in \mathbb{R}^m$ ، $d \in \mathbb{R}^n$ ، $g_0 \in \mathbb{R}^m$ و $f_0 \in \mathbb{R}^n$ است. مسئله QP نامفید، گاهی به طور تحلیلی قابل حل هستند و QP مفید به طور کلی می‌تواند در چند تکرار مشخص حل شود. تعداد تکرار یا همگرایی بستگی به مشخصات تابع هدف و مقدار قیود نامساوی دارد. اگر ماتریس همان G ، یک ماتریس مثبت نیمه معین باشد، آنکه مسأله QP یک مسأله محبب است و قطعاً راه حل آن همگرا می‌شود و از کلاسی برنامه‌ریزی خطی خواهد بود. مسئله QP محبب همیشه یک نتیجه دارند، یعنی حلّ محلی آن، نتیجه مطلوب نیز می‌باشد و لذا حلّ استناد دارد. QP محبب از قضیه KKT به عنوان پشتیبانی ریاضی و از ماشین LP (نظیر روش Simplex) برای حلّ بهره می‌گیرد. باید دقت کرد که الگوریتم‌های مبتنی بر جستجو (مبتنی بر تعریف) نیز می‌توانند مسأله QP را حل کنند ولی از آنجاییکه ساختار تابع هدف مجذوری نیست و در نتیجه مشتقات پارامتری آن ساختار خطی به خود گرفته و همواره قیود خطی تشکیل یک شبکه نامازگار (Underdetermined) می‌دهند، لذا برنامه‌ریزی ریاضی (قضیه KKT) به همواره ماشین حل LP (نظیر سیمپلکس) پدیده‌ترین یا اولین انتخاب خواهد بود. در ادامه فرض می‌کنیم، مسأله QP محبب، فرم اولیه زیر را دارد:

(تعمود حذاف، یا عمود المهر، قیود مساوی، قبلاً بحث شده است.)

$$\min \quad f(\underline{x}) = \underline{c}^T \underline{x} + \frac{1}{2} \underline{x}^T D \underline{x} \quad (7)$$

$$A_X \leq B \quad (\text{المشاكل في } m) \quad (T)$$

$$S.T. \quad x \geq 0 \quad (x \text{ is a } n \times 1 \text{ vector}) \quad (9)$$

به طوریکه جمله $\underline{x}^T D \underline{x}$ مشخصه مجذوری بودن ماله (تابع هدف) بوده و D یک ماتریس متقارن (مدر صورت معذب بودن، مثبت معین) می باشد. اگر D یک ماتریس منفی باشد، آنکاه ماله یک برنامه ریزی خطی استاندارد است. با معرفی متغیرهای کمبود x_i (برای $i = 1, 2, \dots, m$) و r_i (برای $i = 1, 2, \dots, n$) و تبدیل قبود نامساوی (۳) به مساوی (اضافه کردن x_i) و همچنین قبود نامساوی (۴) به قبود مساوی یا معادلات معمولی (تغییل r_i)، ماله مجذوری مقید نامساوی به ماله مجذوری مقید زیر تبدیل می شود:

Quadratic Prog Volume

Martin Groetschel



Quadratic Prog Volume :

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Optimization Techniques And Applications: International Conference (In 2 Volumes) F S Chou, T Y Leong, Nee Lam Loh, Kang Hoh Phua, K C Tan, Chien Ming Wang, W Y Yeong, 1992-05-25 With the advent of powerful computers and novel mathematical programming techniques the multidisciplinary field of optimization has advanced to the stage that quite complicated systems can be addressed The conference was organized to provide a

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Convex Optimization of Power Systems Joshua Adam Taylor,2015-02-12 A mathematically rigorous guide to convex optimization for power systems engineering

Principles of Optimal Design Panos Y. Papalambros,Douglass J. Wilde,2000-07-10 Principles of Optimal Design puts the concept of optimal design on a rigorous foundation and demonstrates the intimate relationship between the mathematical model that describes a design and the solution methods that optimize it Since the first edition was published computers have become ever more powerful design engineers are tackling more complex systems and the term optimization is now routinely used to denote a design process with increased speed and quality This second edition takes account of these developments and brings the original text thoroughly up to date The book now includes a discussion of trust region and convex approximation algorithms A new chapter focuses on how to construct optimal design models Three new case studies illustrate the creation of optimization models The final chapter on optimization practice has been expanded to include computation of derivatives interpretation of algorithmic results and selection of algorithms and software Both students and practising engineers will find this book a valuable resource for design project work

Linear Programming Saul I. Gass,2003-01-01 Comprehensive well organized volume suitable for undergraduates covers theoretical computational and applied areas in linear programming Expanded updated edition useful both as a text and as a reference book 1995 edition

Interior Point Methods of Mathematical Programming Tamás Terlaky,2013-12-01 One has to make everything as simple as possible but never more simple Albert Einstein Discovery consists of seeing what every body has seen and thinking what nobody has thought Albert S ent_Gyorgy The primary goal of this book is to provide an introduction to the theory of Interior Point Methods IPMs in Mathematical Programming At the same time we try to present a quick overview of the impact of extensions of IPMs on smooth nonlinear optimization and to demonstrate the potential of IPMs for solving difficult practical problems The Simplex Method has dominated the theory and practice of mathematical programming since 1947 when Dantzig discovered it In the fifties and sixties several attempts were made to develop alternative solution methods At that time the principal base of interior point methods was also developed for example in the work of Frisch 1955 Carroll 1961

Huard 1967 Fiacco and McCormick 1968 and Dikin 1967 In 1972 Klee and Minty made explicit that in the worst case some variants of the simplex method may require an exponential amount of work to solve Linear Programming LP problems This was at the time when complexity theory became a topic of great interest People started to classify mathematical programming problems as efficiently in polynomial time solvable and as difficult NP hard problems For a while it remained open whether LP was solvable in polynomial time or not The breakthrough resolution of this problem was obtained by Khachijan 1989 *European Control Conference 1995*, 1995-09-05 Proceedings of the European Control Conference 1995 Rome Italy 5-8 September 1995 **Scientific and Technical Aerospace Reports**, 1991 **Handbook of combinatorial optimization** Dingzhu Du, Panos M. Pardalos, 1998-12-15 This is the second of a multi-volume set The various volumes deal with several algorithmic approaches for discrete problems as well as with many combinatorial problems The emphasis is on late 1990s developments Each chapter is essentially expository in nature but scholarly in its treatment Vector Variational Inequalities and Vector Equilibria F. Giannessi, 2013-12-01 The book deals with the mathematical theory of vector variational inequalities with special reference to equilibrium problems Such models have been introduced recently to study new problems from mechanics structural engineering networks and industrial management and to revisit old ones The common feature of these problems is that given by the presence of concurrent objectives and by the difficulty of identifying a global functional like energy to be extremized The vector variational inequalities have the advantage of both the variational ones and vector optimization which are found as special cases Among several applications the equilibrium flows on a network receive special attention Audience The book is addressed to academic researchers as well as industrial ones in the fields of mathematics engineering mathematical programming control theory operations research computer science and economics

Integration of AI and OR Techniques in Constraint Programming Domenico Salvagnin, Michele

Lombardi, 2017-05-30 This book constitutes the proceedings of the 14th International Conference on Integration of Artificial Intelligence and Operations Research Techniques in Constraint Programming for Combinatorial Optimization Problems CPAIOR 2017 held in Padua Italy in June 2017 The 32 full papers presented together with 6 abstracts were carefully reviewed and selected from numerous submissions The conference brings together interested researchers from constraint programming artificial intelligence and operations research to present new techniques or applications in the intersection of these fields and provides an opportunity for researchers in one area to learn about techniques in the others and to show how the integration of techniques from different fields can lead to interesting results on large and complex problems

Combinatorial Optimization A. Ridha Mahjoub, Vangelis Markakis, Ioannis Milis, Vangelis Th. Paschos, 2012-07-05 This book constitutes the thoroughly refereed post-conference proceedings of the Second International Symposium on Combinatorial Optimization ISCO 2012 held in Athens Greece in April 2012 The 37 revised full papers presented together with 4 invited talks were carefully reviewed and selected from 94 regular and 30 short submissions They present original

research on all aspects of combinatorial optimization ranging from mathematical foundations and theory of algorithms to computational studies and practical applications The Sharpest Cut Martin Groetschel,2004-01-01 This collection presents recent results in the areas of theoretical and computational sides of integer programming and combinatorial optimization

Inference and Learning from Data: Volume 1 Ali H. Sayed,2022-12-22 This extraordinary three volume work written in an engaging and rigorous style by a world authority in the field provides an accessible comprehensive introduction to the full spectrum of mathematical and statistical techniques underpinning contemporary methods in data driven learning and inference This first volume Foundations introduces core topics in inference and learning such as matrix theory linear algebra random variables convex optimization and stochastic optimization and prepares students for studying their practical application in later volumes A consistent structure and pedagogy is employed throughout this volume to reinforce student understanding with over 600 end of chapter problems including solutions for instructors 100 figures 180 solved examples datasets and downloadable Matlab code Supported by sister volumes Inference and Learning and unique in its scale and depth this textbook sequence is ideal for early career researchers and graduate students across many courses in signal processing machine learning statistical analysis data science and inference Handbook of Global Optimization R. Horst,Panos M. Pardalos,2013-12-11 Global optimization is concerned with the computation and characterization of global optima of nonlinear functions During the past three decades the field of global optimization has been growing at a rapid pace and the number of publications on all aspects of global optimization has been increasing steadily Many applications as well as new theoretical algorithmic and computational contributions have resulted The Handbook of Global Optimization is the first comprehensive book to cover recent developments in global optimization Each contribution in the Handbook is essentially expository in nature but scholarly in its treatment The chapters cover optimality conditions complexity results concave minimization DC programming general quadratic programming nonlinear complementarity minimax problems multiplicative programming Lipschitz optimization fractional programming network problems trajectory methods homotopy methods interval methods and stochastic approaches The Handbook of Global Optimization is addressed to researchers in mathematical programming as well as all scientists who use optimization methods to model and solve problems **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1997

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