Convex Optimization

Solutions Manual

Stephen Boyd

Lieven Vandenberghe



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Steven R. Lay

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Convex Optimization Stephen P. Boyd, Lieven Vandenberghe, 2004-03-08 Convex optimization problems arise frequently in many different fields This book provides a comprehensive introduction to the subject and shows in detail how such problems can be solved numerically with great efficiency. The book begins with the basic elements of convex sets and functions and then describes various classes of convex optimization problems Duality and approximation techniques are then covered as are statistical estimation techniques Various geometrical problems are then presented and there is detailed discussion of unconstrained and constrained minimization problems and interior point methods. The focus of the book is on recognizing convex optimization problems and then finding the most appropriate technique for solving them It contains many worked examples and homework exercises and will appeal to students researchers and practitioners in fields such as engineering computer science mathematics statistics finance and economics CAD/CAM Abstracts ,1992 Government Convex Analysis and Optimization Dimitri Bertsekas, Angelia Nedic. Asuman Reports Announcements & Index ,1979-06 Ozdaglar, 2003-03-01 A uniquely pedagogical insightful and rigorous treatment of the analytical geometrical foundations of optimization The book provides a comprehensive development of convexity theory and its rich applications in optimization including duality minimax saddle point theory Lagrange multipliers and Lagrangian relaxation nondifferentiable optimization It is an excellent supplement to several of our books Convex Optimization Theory Athena Scientific 2009 Convex Optimization Algorithms Athena Scientific 2015 Nonlinear Programming Athena Scientific 2016 Network Optimization Athena Scientific 1998 and Introduction to Linear Optimization Athena Scientific 1997 Aside from a thorough account of convex analysis and optimization the book aims to restructure the theory of the subject by introducing several novel unifying lines of analysis including 1 A unified development of minimax theory and constrained optimization duality as special cases of duality between two simple geometrical problems 2 A unified development of conditions for existence of solutions of convex optimization problems conditions for the minimax equality to hold and conditions for the absence of a duality gap in constrained optimization 3 A unification of the major constraint qualifications allowing the use of Lagrange multipliers for nonconvex constrained optimization using the notion of constraint pseudonormality and an enhanced form of the Fritz John necessary optimality conditions Among its features the book a Develops rigorously and comprehensively the theory of convex sets and functions in the classical tradition of Fenchel and Rockafellar b Provides a geometric highly visual treatment of convex and nonconvex optimization problems including existence of solutions optimality conditions Lagrange multipliers and duality c Includes an insightful and comprehensive presentation of minimax theory and zero sum games and its connection with duality d Describes dual optimization the associated computational methods including the novel incremental subgradient methods and applications in linear quadratic and integer programming e Contains many examples illustrations and exercises with complete solutions about 200 pages posted at the publisher's web site http www athenasc com convexity html

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feasible set In each of these two steps there is a computational error and these two computational errors are different in general It may happen that the feasible set is simple and the objective function is complicated As a result the computational error made when one calculates the projection is essentially smaller than the computational error of the calculation of the subgradient Clearly an opposite case is possible too Another feature of this book is a study of a number of important algorithms which appeared recently in the literature and which are not discussed in the previous book This monograph contains 12 chapters Chapter 1 is an introduction In Chapter 2 we study the subgradient projection algorithm for minimization of convex and nonsmooth functions We generalize the results of NOCE and establish results which has no prototype in NOCE In Chapter 3 we analyze the mirror descent algorithm for minimization of convex and nonsmooth functions under the presence of computational errors For this algorithm each iteration consists of two steps The first step is a calculation of a subgradient of the objective function while in the second one we solve an auxiliary minimization problem on the set of feasible points In each of these two steps there is a computational error We generalize the results of NOCE and establish results which has no prototype in NOCE In Chapter 4 we analyze the projected gradient algorithm with a smooth objective function under the presence of computational errors In Chapter 5 we consider an algorithm which is an extension of the projection gradient algorithm used for solving linear inverse problems arising in signal image processing In Chapter 6 we study continuous subgradient method and continuous subgradient projection algorithm for minimization of convex nonsmooth functions and for computing the saddle points of convex concave functions under the presence of computational errors All the results of this chapter has no prototype in NOCE In Chapters 7 12 we analyze several algorithms under the presence of computational errors which were not considered in NOCE Again each step of an iteration has a computational errors and we take into account that these errors are in general different An optimization problems with a composite objective function is studied in Chapter 7 A zero sum game with two players is considered in Chapter 8 A predicted decrease approximation based method is used in Chapter 9 for constrained convex optimization Chapter 10 is devoted to minimization of quasiconvex functions Minimization of sharp weakly convex functions is discussed in Chapter 11 Chapter 12 is devoted to a generalized projected subgradient method for minimization of a convex function over a set which is not necessarily convex The book is of interest for researchers and engineers working in optimization It also can be useful in preparation courses for graduate students The main feature of the book which appeals specifically to this audience is the study of the influence of computational errors for several important optimization algorithms The book is of interest for experts in applications of optimization to engineering and economics Convex Sets and Their Applications Steven R. Lay, 2007-01-01 Suitable for advanced undergraduates and graduate students this text introduces the broad scope of convexity It leads students to open questions and unsolved problems and it highlights diverse applications Author Steven R Lay Professor of Mathematics at Lee University in Tennessee reinforces his teachings with numerous examples plus exercises with hints and answers The first

three chapters form the foundation for all that follows starting with a review of the fundamentals of linear algebra and topology They also survey the development and applications of relationships between hyperplanes and convex sets Subsequent chapters are relatively self contained each focusing on a particular aspect or application of convex sets Topics include characterizations of convex sets polytopes duality optimization and convex functions Hints solutions and references for the exercises appear at the back of the book

Optimization Models Giuseppe C. Calafiore, Laurent El Ghaoui, 2014

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