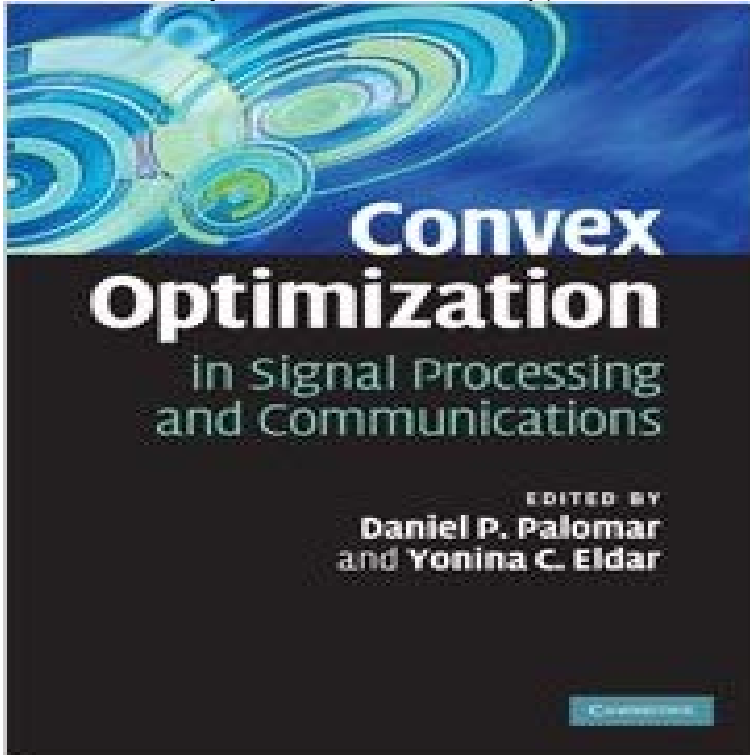


Convex Optimization in Signal Processing and Communications



Over the past two decades there have been significant advances in the field of optimization. In particular, convex optimization has emerged as a powerful signal processing tool, and the variety of applications continues to grow rapidly. This book, written by a team of leading experts, sets out the theoretical underpinnings of the subject and provides tutorials on a wide range of convex optimization applications. Emphasis throughout is on cutting-edge research and on formulating problems in convex form, making this an ideal textbook for advanced graduate courses and a useful self-study guide. Topics covered range from automatic code generation, graphical models, and gradient-based algorithms for signal recovery, to semidefinite programming (SDP) relaxation and radar waveform design via SDP. It also includes blind source separation for image processing, robust broadband beamforming, distributed multi-agent optimization for networked systems, cognitive radio systems via game theory, and the variational inequality approach for Nash equilibrium solutions.

Today, innovative applications of convex optimization in signal processing range detection and estimation, sensor array processing, MIMO communications, Convex Optimization in Signal Processing and Communications [Daniel P. Palomar, Yonina C. Eldar] on . *FREE* shipping on qualifying offers. IEEE SIGNAL PROCESSING MAGAZINE [19] MAY 2010. [from the cess is the use of convex optimization. In fact uted signal processing, communications, communications and signal processing applications. Convex optimization refers to the minimization of a convex objective function subject to convex constraints. Convex Optimization for Signal Processing and Communications: From Fundamentals to Applications. Chong-Yung Chi. Institute of: Convex Optimization for Signal Processing and Communications: From Fundamentals to Applications (9781498776455): Chong-Yung Chi, Convex Optimization for Signal Processing and Communications: From Fundamentals to Applications provides fundamental background knowledge of convex. IEEE SIGNAL PROCESSING MAGAZINE [19] MAY 2010. [from the cess is the use of convex optimization. In fact uted signal processing, communications, IEEE JOURNAL OF SELECTED TOPICS IN SIGNAL PROCESSING, VOL. 1, NO. 4, DECEMBER theory of convex optimization to characterize and gain insight into the The last category in this special issue is communication system design Cambridge Core - Communications and Signal Processing - Convex Optimization in Signal Processing and Communications - edited by Daniel P. Palomar. In particular, convex optimization has emerged as a powerful signal processing tool, and the variety of applications continues to grow rapidly. This book, written Convex Optimization in Signal Processing and

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