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Nemati, Hamid



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Handbook of Robust Low-Rank and Sparse Matrix Decomposition Thierry Bouwmans, Necdet Serhat Aybat, El-hadi Zahzah, 2016-05-27 Handbook of Robust Low Rank and Sparse Matrix Decomposition Applications in Image and Video Processing shows you how robust subspace learning and tracking by decomposition into low rank and sparse matrices provide a suitable framework for computer vision applications Incorporating both existing and new ideas the book conveniently gives you one stop access to a number of different decompositions algorithms implementations and benchmarking techniques Divided into five parts the book begins with an overall introduction to robust principal component analysis PCA via decomposition into low rank and sparse matrices The second part addresses robust matrix factorization completion problems while the third part focuses on robust online subspace estimation learning and tracking Covering applications in image and video processing the fourth part discusses image analysis image denoising motion saliency detection video coding key frame extraction and hyperspectral video processing The final part presents resources and applications in background foreground separation for video surveillance With contributions from leading teams around the world this handbook provides a complete overview of the concepts theories algorithms and applications related to robust low rank and sparse matrix decompositions It is designed for researchers developers and graduate students in computer vision image and video processing real time architecture machine learning and data mining

Data Networks Dimitri Bertsekas, Robert Gallager, 2021-10-02 This classic textbook aims to provide a fundamental understanding of the principles that underlie the design of data networks which form the backbone of the modern internet It was developed through classroom use at MIT in the 1980s and continues to be used as a textbook in MIT classes The present edition also contains detailed high quality solutions to all the end of chapter exercises Among its major features the book

- 1 Describes the principles of layered architectures
- 2 Explains the principles of data link control with many examples and insights into distributed algorithms and protocols
- 3 Provides an intuitive coverage of queueing and its applications in delay and performance analysis of networks
- 4 Covers the theory of multiaccess communications and local data networks
- 5 Discusses in depth theoretical and practical aspects of routing and topological design
- 6 Covers the theory of flow control emphasizing issues of congestion and delay in integrated high speed networks

Convex Optimization Theory Dimitri Bertsekas, 2009-06-01 An insightful concise and rigorous treatment of the basic theory of convex sets and functions in finite dimensions and the analytical geometrical foundations of convex optimization and duality theory Convexity theory is first developed in a simple accessible manner using easily visualized proofs Then the focus shifts to a transparent geometrical line of analysis to develop the fundamental duality between descriptions of convex functions in terms of points and in terms of hyperplanes Finally convexity theory and abstract duality are applied to problems of constrained optimization Fenchel and conic duality and game theory to develop the sharpest possible duality results within a highly visual geometric framework

This on line version of the book includes an extensive set of theoretical problems with detailed high quality solutions which significantly extend the range and value of the book The book may be used as a text for a theoretical convex optimization course the author has taught several variants of such a course at MIT and elsewhere over the last ten years It may also be used as a supplementary source for nonlinear programming classes and as a theoretical foundation for classes focused on convex optimization models rather than theory It is an excellent supplement to several of our books Convex Optimization Algorithms Athena Scientific 2015 Nonlinear Programming Athena Scientific 2017 Network Optimization Athena Scientific 1998 Introduction to Linear Optimization Athena Scientific 1997 and Network Flows and Monotropic Optimization Athena Scientific 1998 **Interfaces** ,1996 Seeks to improve communication between managers and professionals in OR MS

Introduction to Nonlinear Optimization Amir Beck,2014-10-27 This book provides the foundations of the theory of nonlinear optimization as well as some related algorithms and presents a variety of applications from diverse areas of applied sciences The author combines three pillars of optimization theoretical and algorithmic foundation familiarity with various applications and the ability to apply the theory and algorithms on actual problems and rigorously and gradually builds the connection between theory algorithms applications and implementation Readers will find more than 170 theoretical algorithmic and numerical exercises that deepen and enhance the reader s understanding of the topics The author includes offers several subjects not typically found in optimization books for example optimality conditions in sparsity constrained optimization hidden convexity and total least squares The book also offers a large number of applications discussed theoretically and algorithmically such as circle fitting Chebyshev center the Fermat Weber problem denoising clustering total least squares and orthogonal regression and theoretical and algorithmic topics demonstrated by the MATLAB toolbox CVX and a package of m files that is posted on the book s web site *Parallel and Distributed Computation: Numerical Methods* Dimitri Bertsekas,John Tsitsiklis,2015-03-01 This highly acclaimed work first published by Prentice Hall in 1989 is a comprehensive and theoretically sound treatment of parallel and distributed numerical methods It focuses on algorithms that are naturally suited for massive parallelization and it explores the fundamental convergence rate of convergence communication and synchronization issues associated with such algorithms This is an extensive book which aside from its focus on parallel and distributed algorithms contains a wealth of material on a broad variety of computation and optimization topics It is an excellent supplement to several of our other books including Convex Optimization Algorithms Athena Scientific 2015 Nonlinear Programming Athena Scientific 1999 Dynamic Programming and Optimal Control Athena Scientific 2012 Neuro Dynamic Programming Athena Scientific 1996 and Network Optimization Athena Scientific 1998 The on line edition of the book contains a 95 page solutions manual **Privacy Solutions and Security Frameworks in Information**

Protection Nemati, Hamid,2012-09-30 While information technology continues to play a vital role in every aspect of our lives there is a greater need for the security and protection of this information Ensuring the trustworthiness and integrity is

important in order for data to be used appropriately Privacy Solutions and Security Frameworks in Information Protection explores the areas of concern in guaranteeing the security and privacy of data and related technologies This reference source includes a range of topics in information security and privacy provided for a diverse readership ranging from academic and professional researchers to industry practitioners *Power Aware Design Methodologies* Massoud Pedram, Jan M. Rabaey, 2007-05-08 *Power Aware Design Methodologies* was conceived as an effort to bring all aspects of power aware design methodologies together in a single document It covers several layers of the design hierarchy from technology circuit logic and architectural levels up to the system layer It includes discussion of techniques and methodologies for improving the power efficiency of CMOS circuits digital and analog systems on chip microelectronic systems wirelessly networked systems of computational nodes and so on In addition to providing an in depth analysis of the sources of power dissipation in VLSI circuits and systems and the technology and design trends this book provides a myriad of state of the art approaches to power optimization and control The different chapters of *Power Aware Design Methodologies* have been written by leading researchers and experts in their respective areas Contributions are from both academia and industry The contributors have reported the various technologies methodologies and techniques in such a way that they are understandable and useful

Handbook of Mathematics for Engineers and Scientists Andrei D. Polyanin, Alexander V. Manzhirov, 2006-11-27 Covering the main fields of mathematics this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology The authors describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations The book supplies numerous examples graphs figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations *A Concise Handbook of Mathematics, Physics, and Engineering Sciences* Andrei D. Polyanin, Alexei Chernoutsan, 2010-10-18 *A Concise Handbook of Mathematics Physics and Engineering Sciences* takes a practical approach to the basic notions formulas equations problems theorems methods and laws that most frequently occur in scientific and engineering applications and university education The authors pay special attention to issues that many engineers and students

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