1. Record Nr.   UNICASCFI0078412

   Autore   Jiménez de Rada, Rodrigo

   Titolo   Roderici Ximenii de Rada Opera omnia

   Pubbl/distr/stampa Turnholti, : Typographi Brepols editores pontificii

   Descrizione fisica v. ; 26 cm.

   Collana   Corpus Christianorum , . Continuatio Mediaevalis

   Lingua di pubblicazione Latino
                            Spagnolo

   Formato   Materiale a stampa

   Livello bibliografico Monografia

2. Record Nr.   UNINA9910637694403321

   Autore   Suh Changho

   Titolo   Convex Optimization for Machine Learning

   Pubbl/distr/stampa Norwell, MA : , : Now Publishers, , 2022
                      ©2022

   ISBN   1-63828-053-3

   Edizione   [1st ed.]

   Descrizione fisica 1 electronic resource (379 p.)

   Collana   NowOpen

   Disciplina   006.31

   Soggetti   Optimization

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico Monografia

   Sommario/riassunto This book covers an introduction to convex optimization, one of the
                       powerful and tractable optimization problems that can be efficiently
                       solved on a computer. The goal of the book is to
                       help develop a sense of what convex optimization is, and how it can be
                       used in a widening array of practical contexts with a particular

emphasis on machine learning.

The first part of the book covers core concepts of convex sets, convex functions, and related basic definitions that serve understanding convex optimization and its corresponding models. The second part deals with one very useful theory, called duality, which enables us to: (1) gain algorithmic insights; and (2) obtain an approximate solution to non-convex optimization problems which are often difficult to solve. The last part focuses on modern applications in machine learning and deep learning.

A defining feature of this book is that it succinctly relates the "story" of how convex optimization plays a role, via historical examples and trending machine learning applications. Another key feature is that it includes programming implementation of a variety of machine learning algorithms inspired by optimization fundamentals, together with a brief tutorial of the used programming tools. The implementation is based on Python, CVXPY, and TensorFlow.

This book does not follow a traditional textbook-style organization, but is streamlined via a series of lecture notes that are intimately related, centered around coherent themes and concepts. It serves as a textbook mainly for a senior-level undergraduate course, yet is also suitable for a first-year graduate course. Readers benefit from having a good background in linear algebra, some exposure to probability, and basic familiarity with Python.