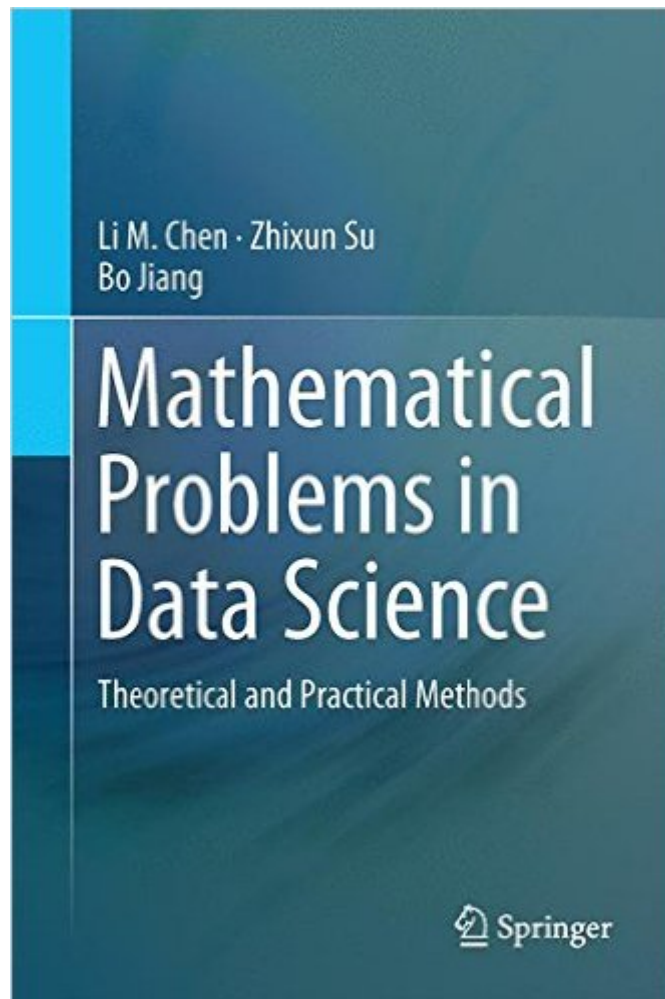


The book was found

# Mathematical Problems In Data Science: Theoretical And Practical Methods



## Synopsis

This book describes current problems in data science and Big Data. Key topics are data classification, Graph Cut, the Laplacian Matrix, Google Page Rank, efficient algorithms, hardness of problems, different types of big data, geometric data structures, topological data processing, and various learning methods. For unsolved problems such as incomplete data relation and reconstruction, the book includes possible solutions and both statistical and computational methods for data analysis. Initial chapters focus on exploring the properties of incomplete data sets and partial-connectedness among data points or data sets. Discussions also cover the completion problem of Netflix matrix; machine learning method on massive data sets; image segmentation and video search. This book introduces software tools for data science and Big Data such as MapReduce, Hadoop, and Spark. This book contains three parts. The first part explores the fundamental tools of data science. It includes basic graph theoretical methods, statistical and AI methods for massive data sets. In second part, chapters focus on the procedural treatment of data science problems including machine learning methods, mathematical image and video processing, topological data analysis, and statistical methods. The final section provides case studies on special topics in variational learning, manifold learning, business and financial data recovery, geometric search, and computing models. Mathematical Problems in Data Science is a valuable resource for researchers and professionals working in data science, information systems and networks. Advanced-level students studying computer science, electrical engineering and mathematics will also find the content helpful.

## Book Information

Hardcover: 213 pages

Publisher: Springer; 1st ed. 2015 edition (December 16, 2015)

Language: English

ISBN-10: 3319251252

ISBN-13: 978-3319251257

Product Dimensions: 6.1 x 0.6 x 9.2 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,352,676 in Books (See Top 100 in Books) #205 in Books > Computers & Technology > Computer Science > AI & Machine Learning > Machine Theory #274 in Books > Computers & Technology > Hardware & DIY > Internet & Networking #1000 in Books >

[Download to continue reading...](#)

Mathematical Problems in Data Science: Theoretical and Practical Methods Data Analytics:  
Practical Data Analysis and Statistical Guide to Transform and Evolve Any Business. Leveraging  
the Power of Data Analytics, Data ... (Hacking Freedom and Data Driven) (Volume 2) Data  
Analytics: What Every Business Must Know About Big Data And Data Science (Data Analytics for  
Business, Predictive Analysis, Big Data) Analytics: Data Science, Data Analysis and Predictive  
Analytics for Business (Algorithms, Business Intelligence, Statistical Analysis, Decision Analysis,  
Business Analytics, Data Mining, Big Data) Ultracold Quantum Fields (Theoretical and Mathematical  
Physics) Practical Problems in Mathematics for Heating and Cooling Technicians (Practical  
Problems In Mathematics Series) Data Science and Big Data Analytics: Discovering, Analyzing,  
Visualizing and Presenting Data Mathematical Interest Theory (Mathematical Association of  
America Textbooks) Data Science for Business: What You Need to Know about Data Mining and  
Data-Analytic Thinking RNA-seq Data Analysis: A Practical Approach (Chapman & Hall/CRC  
Mathematical and Computational Biology) Big Data and Social Science: A Practical Guide to  
Methods and Tools (Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences)  
Dynamics of International Advertising: Theoretical and Practical Perspectives Communicating With  
the Multicultural Consumer: Theoretical and Practical Perspectives Web Data Mining: Exploring  
Hyperlinks, Contents, and Usage Data (Data-Centric Systems and Applications) The Mathematical  
Recreations of Lewis Carroll: Pillow Problems and a Tangled Tale (Dover Recreational Math)  
Computable Analysis: An Introduction (Texts in Theoretical Computer Science. An EATCS Series)  
Schaum's Outline of Mathematical Methods for Business and Economics (Schaum's Outlines)  
Practical Data Management for Risk Data Aggregation and BCBS 239 Compliance Second Edition  
A collection of Advanced Data Science and Machine Learning Interview Questions Solved in Python  
and Spark (II): Hands-on Big Data and Machine ... Programming Interview Questions) (Volume 7)  
Analytics: Data Science, Data Analysis and Predictive Analytics for Business

[Dmca](#)