



# Mathematical Problems in Data Science: Theoretical and Practical Methods

*Li M. Chen, Zhixun Su, Bo Jiang*

Download now

[Click here](#) if your download doesn't start automatically

# Mathematical Problems in Data Science: Theoretical and Practical Methods

*Li M. Chen, Zhixun Su, Bo Jiang*

**Mathematical Problems in Data Science: Theoretical and Practical Methods** Li M. Chen, Zhixun Su, Bo Jiang

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 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 rec

overy, 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.

 [Download Mathematical Problems in Data Science: Theoretical ...pdf](#)

 [Read Online Mathematical Problems in Data Science: Theoretic ...pdf](#)

## **Download and Read Free Online Mathematical Problems in Data Science: Theoretical and Practical Methods Li M. Chen, Zhixun Su, Bo Jiang**

---

### **From reader reviews:**

#### **Hattie Jasso:**

The book Mathematical Problems in Data Science: Theoretical and Practical Methods can give more knowledge and information about everything you want. Why must we leave a good thing like a book Mathematical Problems in Data Science: Theoretical and Practical Methods? Wide variety you have a different opinion about e-book. But one aim which book can give many data for us. It is absolutely appropriate. Right now, try to closer with the book. Knowledge or details that you take for that, it is possible to give for each other; you are able to share all of these. Book Mathematical Problems in Data Science: Theoretical and Practical Methods has simple shape however, you know: it has great and big function for you. You can seem the enormous world by available and read a e-book. So it is very wonderful.

#### **Gustavo Cyr:**

Book is to be different for every grade. Book for children until adult are different content. We all know that that book is very important normally. The book Mathematical Problems in Data Science: Theoretical and Practical Methods had been making you to know about other understanding and of course you can take more information. It is extremely advantages for you. The book Mathematical Problems in Data Science: Theoretical and Practical Methods is not only giving you more new information but also for being your friend when you sense bored. You can spend your own spend time to read your publication. Try to make relationship with the book Mathematical Problems in Data Science: Theoretical and Practical Methods. You never truly feel lose out for everything in the event you read some books.

#### **Kelly Blow:**

Reading a publication can be one of a lot of task that everyone in the world loves. Do you like reading book thus. There are a lot of reasons why people fantastic. First reading a guide will give you a lot of new details. When you read a e-book you will get new information because book is one of various ways to share the information or perhaps their idea. Second, reading a book will make anyone more imaginative. When you studying a book especially hype book the author will bring you to imagine the story how the personas do it anything. Third, you can share your knowledge to some others. When you read this Mathematical Problems in Data Science: Theoretical and Practical Methods, you could tells your family, friends as well as soon about yours book. Your knowledge can inspire others, make them reading a reserve.

#### **Linda Williams:**

Reading a book to be new life style in this calendar year; every people loves to examine a book. When you examine a book you can get a wide range of benefit. When you read textbooks, you can improve your knowledge, because book has a lot of information upon it. The information that you will get depend on what sorts of book that you have read. If you wish to get information about your examine, you can read education books, but if you want to entertain yourself you can read a fiction books, this kind of us novel, comics, as

well as soon. The Mathematical Problems in Data Science: Theoretical and Practical Methods provide you with a new experience in studying a book.

**Download and Read Online Mathematical Problems in Data Science: Theoretical and Practical Methods Li M. Chen, Zhixun Su, Bo Jiang #N0AZTLOIHMx**

## **Read Mathematical Problems in Data Science: Theoretical and Practical Methods by Li M. Chen, Zhixun Su, Bo Jiang for online ebook**

Mathematical Problems in Data Science: Theoretical and Practical Methods by Li M. Chen, Zhixun Su, Bo Jiang Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Mathematical Problems in Data Science: Theoretical and Practical Methods by Li M. Chen, Zhixun Su, Bo Jiang books to read online.

### **Online Mathematical Problems in Data Science: Theoretical and Practical Methods by Li M. Chen, Zhixun Su, Bo Jiang ebook PDF download**

**Mathematical Problems in Data Science: Theoretical and Practical Methods by Li M. Chen, Zhixun Su, Bo Jiang Doc**

**Mathematical Problems in Data Science: Theoretical and Practical Methods by Li M. Chen, Zhixun Su, Bo Jiang Mobipocket**

**Mathematical Problems in Data Science: Theoretical and Practical Methods by Li M. Chen, Zhixun Su, Bo Jiang EPub**