

Introduction Data Mining Pang Ning Tan

Introduction to Data Mining
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Introduction to Data Mining
Advances in Knowledge Discovery and Data Mining, Part II
Advances in Knowledge Discovery and Data Mining, Part II
Introduction to Data Mining: Pearson New International Edition PDF eBook
Advances in Knowledge Discovery and Data Mining, Part II
Foundations of Data Mining and Knowledge Discovery
Data Science: Foundations and Applications
Data Science: Foundations and Applications
Introduction to Data Mining
Collaborative Filtering Using Data Mining and Analysis
Data Mining
Data Mining Principles, Process Model and Applications
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INTRODUCTION TO DATA MINING WITH CASE STUDIES
Prediction and Discovery
Principles of Data Mining Pang-Ning and Michael Steinbach
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introduction to data mining second edition is intended for use in the data mining course it is also suitable for individuals seeking an introduction to data mining the text assumes only a modest statistics or mathematics background and no database knowledge is needed introduction to data mining presents fundamental concepts and algorithms for those learning data mining for the first time each concept is explored thoroughly and supported with numerous examples the text requires only a modest background in mathematics each major topic is organized into two chapters beginning with basic concepts that provide necessary background for understanding

each data mining technique followed by more advanced concepts and algorithms teaching and learning experience this program will provide a better teaching and learning experience for you and your students it will help present fundamental concepts and algorithms written for the beginner this text provides both theoretical and practical coverage of all data mining topics support learning instructor resources include solutions for exercises and a complete set of lecture slides

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the two volume set Inai 7301 and 7302 constitutes the refereed proceedings of the 16th pacific asia conference on knowledge discovery and data mining pakdd 2012 held in kuala lumpur malaysia in may 2012 the total of 20 revised full papers and 66 revised short papers were carefully reviewed and selected from 241 submissions the papers present new ideas original research results and practical development experiences from all kdd related areas the papers are organized in topical sections on supervised learning active ensemble rare class and online unsupervised learning clustering probabilistic modeling in the first volume and on pattern mining networks graphs time series and outlier detection and data manipulation pre processing and dimension reduction in the second volume

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florida in my opinion this is currently the best data mining text book on the market i like the comprehensive coverage which spans all major data mining techniques including classification clustering and pattern mining association rules mohammed zaki rensselaer polytechnic institute

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foundations of data mining and knowledge discovery contains the latest results and new directions in data mining research data mining which integrates various technologies including computational intelligence database and knowledge management machine learning soft computing and statistics is one of the fastest growing fields in computer science although many data mining techniques have been developed further development of the field requires a close examination of its foundations this volume presents the results of investigations into the foundations of the discipline and represents the state of the art for much of the current research this book will prove extremely valuable and fruitful for data mining researchers no matter whether they would like to uncover the fundamental principles behind data mining or apply the theories to practical applications

the two volume set Inai 15875 15876 constitutes the proceedings of the 29th pacific asia conference on knowledge discovery and data mining pakdd 2025 special session held in sydney nsw australia during june 10 13 2025 the 68 full papers included in this set were carefully reviewed and selected from 696 submissions they were organized in topical sections as follows survey track machine learning trustworthiness learning on complex data graph mining machine learning applications representation learning scientific business data analysis and special track on large language models

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intro to data mining

internet usage has become a normal and essential aspect of everyday life due to the immense amount of information available on the web it has become obligatory to find ways to sift through and categorize the overload of data while removing redundant material collaborative filtering using data mining and analysis evaluates the latest patterns and trending topics in the utilization of data mining tools and filtering practices featuring emergent research and optimization techniques in the areas of opinion mining text mining and sentiment analysis as well as their various applications this book is an essential reference source for researchers and engineers interested in collaborative filtering

data mining concepts and techniques fourth edition introduces concepts principles and methods for mining patterns knowledge and models from various kinds of data for diverse applications specifically it delves into the processes for uncovering patterns and knowledge from massive collections of data known as knowledge discovery from data or kdd it focuses on the feasibility usefulness effectiveness and scalability of data mining techniques for large data sets after an introduction to the concept of data mining the authors explain the methods for preprocessing characterizing and warehousing data they then partition the data mining methods into several major tasks introducing concepts and methods for mining frequent patterns associations and correlations for large data sets data classification and model construction cluster analysis and outlier detection concepts and methods for deep learning are systematically introduced as one chapter finally the book covers the trends applications and research frontiers in data mining presents a comprehensive new chapter on deep learning including improving training of deep learning models convolutional neural networks recurrent neural networks and graph neural networks addresses advanced topics in one dedicated chapter data mining trends and research frontiers including mining rich data types text spatiotemporal data and graph networks data mining applications such as sentiment analysis truth discovery and information propagation data mining methodology and systems and data mining and society provides a comprehensive practical look at the concepts and techniques needed to get the most out of your data visit the author hosted companion site hanj.cs.illinois.edu/bk4 for downloadable lecture slides and errata

book provides sound knowledge of data mining principles algorithms machine learning data mining process models applications and experiments done on open source tool weka

if you torture the data long enough nature will confess said 1991 nobel winning economist ronald coase the statement is still true however achieving this lofty goal is not easy first long enough may in practice be too long in many applications and thus unacceptable second to get confession from large data sets one needs to use state of the art torturing tools third nature is very stubborn not yielding easily or unwilling to

reveal its secrets at all fortunately while being aware of the above facts the reader a data miner will find several efficient data mining tools described in this excellent book the book discusses various issues connecting the whole spectrum of approaches methods techniques and algorithms falling under the umbrella of data mining it starts with data understanding and preprocessing then goes through a set of methods for supervised and unsupervised learning and concludes with model assessment data security and privacy issues it is this specific approach of using the knowledge discovery process that makes this book a rare one indeed and thus an indispensable addition to many other books on data mining to be more precise this is a book on knowledge discovery from data as for the data sets the easy to make statement is that there is no part of modern human activity left untouched by both the need and the desire to collect data the consequence of such a state of affairs is obvious

data mining is an emerging technology that has made its way into science engineering commerce and industry as many existing inference methods are obsolete for dealing with massive datasets that get accumulated in data warehouses this comprehensive and up to date text aims at providing the reader with sufficient information about data mining methods and algorithms so that they can make use of these methods for solving real world problems the authors have taken care to include most of the widely used methods in data mining with simple examples so as to make the text ideal for classroom learning to make the theory more comprehensible to the students many illustrations have been used and this in turn explains how certain parameters of interest change as the algorithm proceeds designed as a textbook for the undergraduate and postgraduate students of computer science information technology and master of computer applications the book can also be used for mba courses in data mining in business business intelligence marketing research and health care management students of bioinformatics will also find the text extremely useful cd rom include the accompanying cd contains large collection of datasets animation on how to use weka and excelminer to do data mining

this book offers a thorough grounding in machine learning concepts combined with practical advice on applying machine learning tools and techniques in real world data mining situations clearly written and effectively illustrated this book is ideal for anyone involved at any level in the work of extracting usable knowledge from large collections of data complementing the book s instruction is fully functional machine learning software

the field of data mining provides techniques for automated discovery of valuable information from the accumulated data of computerized operations of enterprises this book offers a clear and comprehensive introduction to both data mining theory and practice it is written primarily as a textbook for the students of computer science management computer applications and information technology the book ensures that the students learn the major data mining techniques even if they do not have a strong mathematical background the techniques include data pre processing

association rule mining supervised classification cluster analysis web data mining search engine query mining data warehousing and olap to enhance the understanding of the concepts introduced and to show how the techniques described in the book are used in practice each chapter is followed by one or two case studies that have been published in scholarly journals most case studies deal with real business problems for example marketing e commerce crm studying the case studies provides the reader with a greater insight into the data mining techniques the book also provides many examples review questions multiple choice questions chapter end exercises and a good list of references and resources especially those which are easy to understand and useful for students a number of class projects have also been included

these proceedings feature some of the latest important results about machine learning based on methods originated in computer science and statistics in addition to papers discussing theoretical analysis of the performance of procedures for classification and prediction the papers in this book cover novel versions of support vector machines svm principal component methods lasso prediction models and boosting and clustering also included are applications such as multi level spatial models for diagnosis of eye disease hyperclique methods for identifying protein interactions robust svm models for detection of fraudulent banking transactions etc this book should be of interest to researchers who want to learn about the various new directions that the field is taking to graduate students who want to find a useful and exciting topic for their research or learn the latest techniques for conducting comparative studies and to engineers and scientists who want to see examples of how to modify the basic high dimensional methods to apply to real world applications with special conditions and constraints

the first truly interdisciplinary text on data mining blending the contributions of information science computer science and statistics the growing interest in data mining is motivated by a common problem across disciplines how does one store access model and ultimately describe and understand very large data sets historically different aspects of data mining have been addressed independently by different disciplines this is the first truly interdisciplinary text on data mining blending the contributions of information science computer science and statistics the book consists of three sections the first foundations provides a tutorial overview of the principles underlying data mining algorithms and their application the presentation emphasizes intuition rather than rigor the second section data mining algorithms shows how algorithms are constructed to solve specific problems in a principled manner the algorithms covered include trees and rules for classification and regression association rules belief networks classical statistical models nonlinear models such as neural networks and local memory based models the third section shows how all of the preceding analysis fits together when applied to real world data mining problems topics include the role of metadata how to handle missing data and data preprocessing

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