Frequent Pattern Mining Charu Aggarwal

Frequent Pattern Mining Charu Aggarwal Frequent Pattern Mining Charu Aggarwals Contributions Frequent pattern mining FPM is a fundamental data mining task that aims to identify patterns that occur frequently in large datasets This field has seen significant contributions from renowned researchers including Charu Aggarwal who has made groundbreaking advances in various aspects of FPM This article explores Charu Aggarwals contributions to the field delving into his key innovations and the impact they have had on the development of FPM techniques Frequent pattern mining data mining Charu Aggarwal association rule mining sequential pattern mining clustering outlier detection highdimensional data largescale data data streams Charu Aggarwal a prominent researcher in data mining has played a pivotal role in advancing the field of frequent pattern mining FPM His research has addressed crucial challenges in various aspects of FPM including Scaling to Large Datasets Traditional FPM algorithms struggled with the computational complexity of handling massive datasets Aggarwals work introduced novel algorithms and data structures to efficiently mine patterns from largescale datasets paving the way for practical applications in realworld scenarios Mining Complex Patterns Moving beyond simple association rules Aggarwal explored complex patterns including sequential patterns temporal patterns and patterns in high dimensional data He developed innovative algorithms to discover these complex patterns effectively Handling Noisy Data Realworld datasets are often noisy making it challenging to extract meaningful patterns Aggarwals contributions include robust techniques for handling noise and outliers in FPM ensuring the accuracy and reliability of discovered patterns Adapting to Data Streams With the increasing volume and velocity of data FPM algorithms need to be adapted for data streams Aggarwal proposed novel stream mining techniques for FPM allowing for realtime pattern discovery and analysis of streaming data Conclusion 2 Charu Aggarwals contributions to frequent pattern mining have significantly advanced the field making it more scalable robust and versatile His work has enabled the extraction of meaningful patterns from massive datasets leading to numerous applications in diverse domains including ecommerce healthcare finance and social media As data continues to grow exponentially Aggarwals research remains crucial for pushing the boundaries of FPM and enabling the discovery of valuable insights from the vast ocean of data ThoughtProvoking Conclusion While Charu Aggarwals work has demonstrably pushed FPM forward its important to recognize that the field still faces challenges The evergrowing complexity of data with its increasing dimensionality and heterogeneity demands further innovation in FPM How can we develop algorithms that are capable of efficiently mining patterns from even more complex datasets How can we ensure that the patterns discovered are truly meaningful and not simply artifacts of noise or biases in the data These are important questions that future research in FPM must address building upon the foundation laid by pioneers like Charu Aggarwal FAQs 1 What are the key benefits of frequent pattern mining Unveiling hidden relationships FPM helps identify meaningful connections and patterns that might not be immediately apparent Driving decisionmaking The discovered patterns can provide insights for making informed decisions in various domains Personalized experiences FPM enables tailoring products services and recommendations to individual users based on their specific patterns Predictive analytics FPM can be used to forecast future trends and behavior based on past patterns 2 How does Charu Aggarwals work contribute to the scalability of FPM algorithms Aggarwal introduced novel data structures like FPtrees and efficient algorithms like Apriori to handle massive datasets These techniques significantly reduced the computational complexity of FPM making it practical for realworld applications 3 How does Charu Aggarwals work address the challenge of noise in data Aggarwal developed robust techniques for handling noise and outliers in FPM

These include algorithms that use statistical measures clustering and outlier detection techniques to 3 minimize the impact of noisy data on the discovered patterns 4 What are the potential applications of frequent pattern mining in various domains Ecommerce Recommending products based on user purchase history identifying fraudulent transactions Healthcare Detecting disease outbreaks predicting patient readmissions personalizing treatment plans Finance Identifying fraudulent activities predicting market trends analyzing customer behavior Social media Understanding trending topics identifying influential users detecting fake accounts 5 What are the key challenges and future directions in frequent pattern mining Handling highdimensional and complex data Developing algorithms to effectively mine patterns from datasets with a large number of features and complex structures Interpretability and explainability Making the discovered patterns more understandable and interpretable for humans avoiding blackbox models Privacypreserving FPM Developing techniques for mining patterns while protecting sensitive information and ensuring user privacy FPM in dynamic and evolving environments Developing adaptive algorithms that can effectively mine patterns from constantly changing data streams

Data MiningMining Text DataData StreamsManaging and Mining Uncertain DataMachine Learning and Knowledge Discovery in DatabasesManaging and Mining Graph DataProbabilistic Approaches to RecommendationsMachine Learning for TextProceedings of the ... SIAM International Conference on Data MiningExploiting the Power of Group DifferencesOutlier AnalysisFeature Engineering for Machine Learning and Data AnalyticsKDD ...Social Network Data AnalyticsCollaborative Computing: Networking, Applications and WorksharingEncyclopedia of Parallel ComputingSIGKDD ExplorationsProceedings of the Second SIAM International Conference on Data MiningProceedings of the Seventh SIAM International Conference on Data MiningLife Science Data Mining Charu C. Aggarwal Charu C. Aggarwal Charu C. Aggarwal Charu C. Aggarwal Toon Calders Charu C. Aggarwal Nicola Barbieri Charu C. Aggarwal Guozhu Dong Charu C. Aggarwal Guozhu Dong Charu C. Aggarwal Imed Romdhani David Padua Robert Grossman Chid Apte Stephen T. C. Wong
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this textbook explores the different aspects of data mining from the fundamentals to the complex data types and their applications capturing the wide diversity of problem domains for data mining issues it goes beyond the traditional focus on data mining problems to introduce advanced data types such as text time series discrete sequences spatial data graph data and social networks until now no single book has addressed all these topics in a comprehensive and integrated way the chapters of this book fall into one of three categories fundamental chapters data mining has four main problems which correspond to clustering classification association pattern mining and outlier analysis these chapters comprehensively discuss a wide variety of methods for these problems domain chapters these chapters discuss the specific methods used for different domains of data such as text data time series data sequence data graph data and spatial data application chapters these chapters study important applications such as stream mining mining ranking recommendations social networks and privacy preservation the domain chapters also have an applied

flavor appropriate for both introductory and advanced data mining courses data mining the textbook balances mathematical details and intuition it contains the necessary mathematical details for professors and researchers but it is presented in a simple and intuitive style to improve accessibility for students and industrial practitioners including those with a limited mathematical background numerous illustrations examples and exercises are included with an emphasis on semantically interpretable examples praise for data mining the textbook as i read through this book i have already decided to use it in my classes this is a book written by an outstanding researcher who has made fundamental contributions to data mining in a way that is both accessible and up to date the book is complete with theory and practical use cases it s a must have for students and professors alike qiang yang chair of computer science and engineering at hong kong university of science and technology this is the most amazing and comprehensive text book on data mining it covers not only the fundamental problems such as clustering classification outliers and frequent patterns and different data types including text time series sequences spatial data and graphs but also various applications such as recommenders social network and privacy it is a great book for graduate students and researchers as well as practitioners philip s yu uic distinguished professor and wexler chair in information technology at university of illinois at chicago

text mining applications have experienced tremendous advances because of web 2 0 and social networking applications recent advances in hardware and software technology have lead to a number of unique scenarios where text mining algorithms are learned mining text data introduces an important niche in the text analytics field and is an edited volume contributed by leading international researchers and practitioners focused on social networks data mining this book contains a wide swath in topics across social networks data mining each chapter contains a comprehensive survey including the key research content on the topic and the future directions of research in the field there is a special focus on text embedded with heterogeneous and multimedia data which makes the mining process much more challenging a number of methods have been designed such as transfer learning and cross lingual mining for such cases mining text data simplifies the content so that advanced level students practitioners and researchers in computer science can benefit from this book academic and corporate libraries as well as acm ieee and management science focused on information security electronic commerce databases data mining machine learning and statistics are the primary buyers for this reference book

this book primarily discusses issues related to the mining aspects of data streams and it is unique in its primary focus on the subject this volume covers mining aspects of data streams comprehensively each contributed chapter contains a survey on the topic the key ideas in the field for that particular topic and future research directions the book is intended for a professional audience composed of researchers and practitioners in industry this book is also appropriate for advanced level students in computer science

managing and mining uncertain data a survey with chapters by a variety of well known researchers in the data mining field presents the most recent models algorithms and applications in the uncertain data mining field in a structured and concise way this book is organized to make it more accessible to applications driven practitioners for solving real problems also given the lack of structurally organized information on this topic managing and mining uncertain data provides insights which are not easily accessible elsewhere managing and mining uncertain data is designed for a professional audience composed of researchers and practitioners in industry this book is also suitable as a reference book for advanced level students in computer science and engineering as well as the acm ieee siam informs and aaai society groups

this three volume set lnai 8724 8725 and 8726 constitutes the refereed proceedings of the european conference on machine learning and knowledge discovery in

databases ecml pkdd 2014 held in nancy france in september 2014 the 115 revised research papers presented together with 13 demo track papers 10 nectar track papers 8 phd track papers and 9 invited talks were carefully reviewed and selected from 550 submissions the papers cover the latest high quality interdisciplinary research results in all areas related to machine learning and knowledge discovery in databases

managing and mining graph data is a comprehensive survey book in graph management and mining it contains extensive surveys on a variety of important graph topics such as graph languages indexing clustering data generation pattern mining classification keyword search pattern matching and privacy it also studies a number of domain specific scenarios such as stream mining web graphs social networks chemical and biological data the chapters are written by well known researchers in the field and provide a broad perspective of the area this is the first comprehensive survey book in the emerging topic of graph data processing managing and mining graph data is designed for a varied audience composed of professors researchers and practitioners in industry this volume is also suitable as a reference book for advanced level database students in computer science and engineering

the importance of accurate recommender systems has been widely recognized by academia and industry and recommendation is rapidly becoming one of the most successful applications of data mining and machine learning understanding and predicting the choices and preferences of users is a challenging task real world scenarios involve users behaving in complex situations where prior beliefs specific tendencies and reciprocal influences jointly contribute to determining the preferences of users toward huge amounts of information services and products probabilistic modeling represents a robust formal mathematical framework to model these assumptions and study their effects in the recommendation process this book starts with a brief summary of the recommendation problem and its challenges and a review of some widely used techniques next we introduce and discuss probabilistic approaches for modeling preference data we focus our attention on methods based on latent factors such as mixture models probabilistic matrix factorization and topic models for explicit and implicit preference data these methods represent a significant advance in the research and technology of recommendation the resulting models allow us to identify complex patterns in preference data which can be exploited to predict future purchases effectively the extreme sparsity of preference data poses serious challenges to the modeling of user preferences especially in the cases where few observations are available bayesian inference techniques elegantly address the need for regularization and their integration with latent factor modeling helps to boost the performances of the basic techniques we summarize the strengths and weakness of several approaches by considering two different but related evaluation perspectives namely rating prediction and recommendation accuracy furthermore we describe how probabilistic methods based on latent factors enable the exploitation of preference patterns in novel applications beyond rating prediction or recommendation accuracy we finally discuss the application of probabilistic techniques in two additional scenarios characterized by the availability of side information besides preference data in summary the book categorizes the myriad probabilistic approaches to recommendations and provides guidelines for their adoption in real world situations

text analytics is a field that lies on the interface of information retrieval machine learning and natural language processing and this textbook carefully covers a coherently organized framework drawn from these intersecting topics the chapters of this textbook is organized into three categories basic algorithms chapters 1 through 7 discuss the classical algorithms for machine learning from text such as preprocessing similarity computation topic modeling matrix factorization clustering classification regression and ensemble analysis domain sensitive mining chapters 8 and 9 discuss the learning methods from text when combined with different domains such as multimedia and the the problem of information retrieval and search is also discussed in the context of its relationship with ranking and machine learning methods

sequence centric mining chapters 10 through 14 discuss various sequence centric and natural language applications such as feature engineering neural language models deep learning text summarization information extraction opinion mining text segmentation and event detection this textbook covers machine learning topics for text in detail since the coverage is extensive multiple courses can be offered from the same book depending on course level even though the presentation is text centric chapters 3 to 7 cover machine learning algorithms that are often used indomains beyond text data therefore the book can be used to offer courses not just in text analytics but also from the broader perspective of machine learning with text as a backdrop this textbook targets graduate students in computer science as well as researchers professors and industrial practitioners working in these related fields this textbook is accompanied with a solution manual for classroom teaching

this book presents pattern based problem solving methods for a variety of machine learning and data analysis problems the methods are all based on techniques that exploit the power of group differences they make use of group differences represented using emerging patterns aka contrast patterns which are patterns that match significantly different numbers of instances in different data groups a large number of applications outside of the computing discipline are also included emerging patterns eps are useful in many ways eps can be used as features as simple classifiers as subpopulation signatures characterizations and as triggering conditions for alerts eps can be used in gene ranking for complex diseases since they capture multi factor interactions the length of eps can be used to detect anomalies outliers and novelties emerging contrast pattern based methods for clustering analysis and outlier detection do not need distance metrics avoiding pitfalls of the latter in exploratory analysis of high dimensional data ep based classifiers can achieve good accuracy even when the training datasets are tiny making them useful for exploratory compound selection in drug design eps can serve as opportunities in opportunity focused boosting and are useful for constructing powerful conditional ensembles ep based methods often produce interpretable models and results in general eps are useful for classification clustering outlier detection gene ranking for complex diseases prediction model analysis and improvement and so on eps are useful for many tasks because they represent group differences which have extraordinary power moreover eps represent multi factor interactions whose effective handling is of vital importance and is a major challenge in many disciplines based on the results presented in this book one can clearly say that patterns are useful especially when they are linked to issues of interest we believe that many effective ways to exploit group differences power still remain to be discovered hopefully this book will inspire readers to discover such new ways besides showing them existing ways to solve various challenging problems

this book provides comprehensive coverage of the field of outlier analysis from a computer science point of view it integrates methods from data mining machine learning and statistics within the computational framework and therefore appeals to multiple communities the chapters of this book can be organized into three categories basic algorithms chapters 1 through 7 discuss the fundamental algorithms for outlier analysis including probabilistic and statistical methods linear methods proximity based methods high dimensional subspace methods ensemble methods and supervised methods domain specific methods chapters 8 through 12 discuss outlier detection algorithms for various domains of data such as text categorical data time series data discrete sequence data spatial data and network data applications chapter 13 is devoted to various applications of outlier analysis some guidance is also provided for the practitioner the second edition of this book is more detailed and is written to appeal to both researchers and practitioners significant new material has been added on topics such as kernel methods one class support vector machines matrix factorization neural networks outlier ensembles time series methods and subspace methods it is written as a textbook and can be used for classroom teaching

feature engineering plays a vital role in big data analytics machine learning and data mining algorithms cannot work without data little can be achieved if there are few features to represent the underlying data objects and the quality of results of those algorithms largely depends on the quality of the available features feature

engineering for machine learning and data analytics provides a comprehensive introduction to feature engineering including feature generation feature extraction feature transformation feature selection and feature analysis and evaluation the book presents key concepts methods examples and applications as well as chapters on feature engineering for major data types such as texts images sequences time series graphs streaming data software engineering data twitter data and social media data it also contains generic feature generation approaches as well as methods for generating tried and tested hand crafted domain specific features the first chapter defines the concepts of features and feature engineering offers an overview of the book and provides pointers to topics not covered in this book the next six chapters are devoted to feature engineering including feature generation for specific data types the subsequent four chapters cover generic approaches for feature engineering namely feature selection feature transformation based feature engineering deep learning based feature engineering and pattern based feature generation and engineering the last three chapters discuss feature engineering for social bot detection software management and twitter based applications respectively this book can be used as a reference for data analysts big data scientists data preprocessing workers project managers project developers prediction modelers professors researchers graduate students and upper level undergraduate students it can also be used as the primary text for courses on feature engineering or as a supplement for courses on machine learning data mining and big data analytics

social network analysis applications have experienced tremendous advances within the last few years due in part to increasing trends towards users interacting with each other on the internet social networks are organized as graphs and the data on social networks takes on the form of massive streams which are mined for a variety of purposes social network data analytics covers an important niche in the social network analytics field this edited volume contributed by prominent researchers in this field presents a wide selection of topics on social network data mining such as structural properties of social networks algorithms for structural discovery of social networks and content analysis in social networks this book is also unique in focussing on the data analytical aspects of social networks in the internet scenario rather than the traditional sociology driven emphasis prevalent in the existing books which do not focus on the unique data intensive characteristics of online social networks emphasis is placed on simplifying the content so that students and practitioners benefit from this book this book targets advanced level students and researchers concentrating on computer science as a secondary text or reference book data mining database information security electronic commerce and machine learning professionals will find this book a valuable asset as well as primary associations such as acm ieee and management science

this book constitutes the thoroughly refereed proceedings of the 13th international conference on collaborative computing networking applications and worksharing collaboratecom 2017 held in edinburgh uk in december 2017 the 65 papers presented were carefully reviewed and selected from 103 submissions and focus on electronic collaboration between distributed teams of humans computer applications and autonomous robots to achieve higher productivity and produce joint products

containing over 300 entries in an a z format the encyclopedia of parallel computing provides easy intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing topics for this comprehensive reference were selected written and peer reviewed by an international pool of distinguished researchers in the field the encyclopedia is broad in scope covering machine organization programming languages algorithms and applications within each area concepts designs and specific implementations are presented the highly structured essays in this work comprise synonyms a definition and discussion of the topic bibliographies and links to related literature extensive cross references to other entries within the encyclopedia support efficient user friendly searchers for immediate access to useful information key concepts presented in the encyclopedia of parallel computing include laws and metrics specific numerical and

non numerical algorithms asynchronous algorithms libraries of subroutines benchmark suites applications sequential consistency and cache coherency machine classes such as clusters shared memory multiprocessors special purpose machines and dataflow machines specific machines such as cray supercomputers ibm s cell processor and intel s multicore machines race detection and auto parallelization parallel programming languages synchronization primitives collective operations message passing libraries checkpointing and operating systems topics covered speedup efficiency isoefficiency redundancy amdahls law computer architecture concepts parallel machine designs benmarks parallel programming concepts design algorithms parallel applications this authoritative reference will be published in two formats print and online the online edition features hyperlinks to cross references and to additional significant research related subjects supercomputing high performance computing distributed computing

this text constitutes the proceedings of the second siam international conference on data mining topics covered within include mining large data sets casualty rules and data learning support vector machines and neural networks and mining sequential and structured patterns

the seventh siam international conference on data mining sdm 2007 continues a series of conferences whose focus is the theory and application of data mining to complex datasets in science engineering biomedicine and the social sciences these datasets challenge our abilities to analyze them because they are large and often noisy sophisticated highperformance and principled analysis techniques and algorithms based on sound statistical foundations are required visualization is often critically important tuning for performance is a significant challenge and the appropriate levels of abstraction to allow end users to exploit sophisticated techniques and understand clearly both the constraints and interpretation of results are still something of an open question

this timely book identifies and highlights the latest data mining paradigms to analyze combine integrate model and simulate vast amounts of heterogeneous multi modal multi scale data for emerging real world applications in life science the cutting edge topics presented include bio surveillance disease outbreak detection high throughput bioimaging drug screening predictive toxicology biosensors and the integration of macro scale bio surveillance and environmental data with micro scale biological data for personalized medicine this collection of works from leading researchers in the field offers readers an exceptional start in these areas

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Introduction

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