


# MINING SEQUENTIAL PATTERNS FROM LARGE DATA SETS

by

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 Springer

# Mining Sequential Patterns From Large Data Sets

**Guozhu Dong, Jian Pei**



## **Mining Sequential Patterns From Large Data Sets:**

*Mining Sequential Patterns from Large Data Sets* Wei Wang, Jiong Yang, 2005-02-28 In many applications e.g. bioinformatics web access traces system utilization logs etc the data is naturally in the form of sequences It has been of great interests to analyze the sequential data to find their inherent characteristics The sequential pattern is one of the most widely studied models to capture such characteristics Examples of sequential patterns include but are not limited to protein sequence motifs and web page navigation traces In this book we focus on sequential pattern mining To meet different needs of various applications several models of sequential patterns have been proposed We do not only study the mathematical definitions and application domains of these models but also the algorithms on how to effectively and efficiently find these patterns The objective of this book is to provide computer scientists and domain experts such as life scientists with a set of tools in analyzing and understanding the nature of various sequences by 1 identifying the specific models of sequential patterns that are most suitable and 2 providing an efficient algorithm for mining these patterns Chapter 1 INTRODUCTION Data Mining is the process of extracting implicit knowledge and discovery of interesting characteristics and patterns that are not explicitly represented in the databases The techniques can play an important role in understanding data and in capturing intrinsic relationships among data instances Data mining has been an active research area in the past decade and has been proved to be very useful

*Advances in Data and Web Management* Guozhu Dong, Xuemin Lin, Wei Wang, Yun Yang, Jeffrey Xu Yu, 2007-06-26 This book constitutes the refereed proceedings of the joint 9th Asia Pacific Web Conference APWeb 2007 and the 8th International Conference on Web Age Information Management WAIM 2007 held in Huang Shan China June 2007 Coverage includes data mining and knowledge discovery P2P systems sensor networks spatial and temporal databases Web mining XML and semi structured data privacy and security as well as data mining and data streams

**Applications of Security, Mobile, Analytic, and Cloud (SMAC) Technologies for Effective Information Processing and Management** Karthikeyan, P., Thangavel, M., 2018-06-29 From cloud computing to big data to mobile technologies there is a vast supply of information being mined and collected With an abundant amount of information being accessed stored and saved basic controls are needed to protect and prevent security incidents as well as ensure business continuity Applications of Security Mobile Analytic and Cloud SMAC Technologies for Effective Information Processing and Management is a vital resource that discusses various research findings and innovations in the areas of big data analytics mobile communication and mobile applications distributed systems and information security With a focus on big data the internet of things IoT mobile technologies cloud computing and information security this book proves a vital resource for computer engineers IT specialists software developers researchers and graduate level students seeking current research on SMAC technologies and information security management systems

**Advanced Data Mining and Applications** Ronghuai Huang, Qiang Yang, Jian Pei, João Gama, Xiaofeng Meng, Xue Li, 2009-07-28 This book constitutes the refereed proceedings of the 5th International

Conference on Advanced Data Mining and Applications ADMA 2009 held in Beijing China in August 2009 The 34 revised full papers and 47 revised short papers presented together with the abstract of 4 keynote lectures were carefully reviewed and selected from 322 submissions from 27 countries The papers focus on advancements in data mining and peculiarities and challenges of real world applications using data mining and feature original research results in data mining spanning applications algorithms software and systems and different applied disciplines with potential in data mining **Current Topics in Artificial Intelligence** Pedro Meseguer, Lawrence Mandow, Rafael M. Gasca, 2010-07-05 This book constitutes the refereed proceedings of the 13th Conference of the Spanish Association for Artificial Intelligence CAEPIA 2009 held in Seville Spain in November 2009 in conjunction with the Workshop on Artificial Intelligence Technology Transfer TTIA 2009 The 31 revised full papers presented were carefully selected from 125 submissions The papers address the following topics machine learning multiagents natural language planning diagnosis evolutive algorithms and neural networks knowledge representation and engineering tutoring systems uncertainty bayesian networks vision and applications **Current Topics in Artificial Intelligence** Asociación Española de Inteligencia Artificial, 2010 Discovery Science Nada Lavrač, Ljupco Todorovski, Klaus P. Jantke, 2006-09-29 This book constitutes the refereed proceedings of the 9th International Conference on Discovery Science DS 2006 held in Barcelona Spain in October 2006 co located with the 17th International Conference on Algorithmic Learning Theory ALT 2006 The 23 revised long papers and the 18 revised regular papers presented together with five invited papers were carefully reviewed and selected from 87 submissions Data Mining and Big Data Ying Tan, Hideyuki Takagi, Yuhui Shi, 2017-07-18 This book constitutes the refereed proceedings of the Second International Conference on Data Mining and Big Data DMBD 2017 held in Fukuoka Japan in July August 2017 The 53 papers presented in this volume were carefully reviewed and selected from 96 submissions They were organized in topical sections named association analysis clustering prediction classification schedule and sequence analysis big data data analysis data mining text mining deep learning high performance computing knowledge base and its framework and fuzzy control

**International Conference on Computer Applications 2012 :: Volume 05** Kokula Krishna Hari K, *Advanced Intelligent Computing Theories and Applications* De-Shuang Huang, Laurent Heutte, Marco Loog, 2007-08-10 This volume in conjunction with the two volumes LNCS 4681 and LNAI 4682 constitutes the refereed proceedings of the Third International Conference on Intelligent Computing held in Qingdao China in August 2007 The conference sought to establish contemporary intelligent computing techniques as an integral method that underscores trends in advanced computational intelligence and links theoretical research with applications **Sequence Data Mining** Guozhu Dong, Jian Pei, 2007-10-31 Understanding sequence data and the ability to utilize this hidden knowledge will create a significant impact on many aspects of our society Examples of sequence data include DNA protein customer purchase history web surfing history and more This book provides thorough coverage of the existing results on sequence data mining as well as pattern types and associated pattern mining

methods It offers balanced coverage on data mining and sequence data analysis allowing readers to access the state of the art results in one place

**Automotive, Mechanical and Electrical Engineering** Lin Liu, 2017-06-26 The 2016 International Conference on Automotive Engineering Mechanical and Electrical Engineering AEMEE 2016 was held December 9 11 2016 in Hong Kong China AEMEE 2016 was a platform for presenting excellent results and new challenges facing the fields of automotive mechanical and electrical engineering Automotive Mechanical and Electrical Engineering brings together a wide range of contributions from industry and governmental experts and academics experienced in engineering design and research Papers have been categorized under the following headings Automotive Engineering and Rail Transit Engineering Mechanical Manufacturing Process Engineering Network Communications and Applied Information Technologies Technologies in Energy and Power Cell Engines Generators Electric Vehicles System Test and Diagnosis Monitoring and Identification Video and Image Processing Applied and Computational Mathematics Methods Algorithms and Optimization Technologies in Electrical and Electronic Control and Automation Industrial Production Manufacturing Management and Logistics

*Computer and Information Science* Roger Lee, 2017-05-25 This book presents the edited proceedings of the 16th IEEE ACIS International Conference on Computer and Information Science ICIS 2017 which was held on May 24 26 2017 in Wuhan China The aim of this conference was to bring together researchers and scientists businessmen and entrepreneurs teachers engineers computer users and students to discuss the various fields of computer science share their experiences and exchange new ideas and information The research results included relate to all aspects theory applications and tools of computer and information science and discuss the practical challenges encountered and the solutions adopted to solve them The work selected represents 17 of the most promising papers from the conference written by authors who are certain to make further significant contributions to the field of computer and information science

Modeling Decisions for Artificial Intelligence Yasuo Narukawa, Yuji Yoshida, 2007-08-21 Decision modeling is a key area in the developing field of AI and this timely work connects researchers and professionals with the very latest research It constitutes the refereed proceedings of the 4th International Conference on Modeling Decisions for Artificial Intelligence held in Kitakyushu Japan in August 2007 The 42 revised full papers presented together with 4 invited lectures are devoted to theory and tools as well as applications

*MICAI 2006: Advances in Artificial Intelligence* Alexander Gelbukh, Carlos Alberto Reyes-Garcia, 2006-11-07 This book constitutes the refereed proceedings of the 5th Mexican International Conference on Artificial Intelligence MICAI 2006 held in Apizaco Mexico in November 2006 It contains over 120 papers that address such topics as knowledge representation and reasoning machine learning and feature selection knowledge discovery computer vision image processing and image retrieval robotics as well as bioinformatics and medical applications

**Software Engineering and Computer Systems, Part III** Jasni Mohamad Zain, Wan Maseri Wan Mohd, Eyas El-Qawasmeh, 2011-06-22 This Three Volume Set constitutes the refereed proceedings of the Second International Conference on Software Engineering

and Computer Systems ICSECS 2011 held in Kuantan Malaysia in June 2011 The 190 revised full papers presented together with invited papers in the three volumes were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on software engineering network bioinformatics and e health biometrics technologies Web engineering neural network parallel and distributed e learning ontology image processing information and data management engineering software security graphics and multimedia databases algorithms signal processing software design testing e technology ad hoc networks social networks software process modeling miscellaneous topics in software engineering and computer systems Information Computing And Automation (In 3 Volumes) - Proceedings Of The International Conference

Jian Ping Li,Igor Bloshanskii,Lionel M Ni,S S Pandey,Simon X Yang,2008-04-25 Wavelet analysis and its applications have become one of the fastest growing research areas in the past several years Wavelet theory has been employed in many fields and applications such as signal and image processing communication systems biomedical imaging radar air acoustics and endless other areas Active media technology is concerned with the development of autonomous computational or physical entities capable of perceiving reasoning adapting learning cooperating and delegating in a dynamic environment This book consists of carefully selected and received papers presented at the conference and is an attempt to capture the essence of the current state of the art in wavelet analysis and active media technology Invited papers included in this proceedings includes contributions from Prof P Zhang T D Bui and C Y Suen from Concordia University Canada Prof N A Strelkov and V L Dolnikov from Yaroslavl State University Russia Prof Chin Chen Chang and Ching Yun Chang from Taiwan Prof S S Pandey from R D University India and Prof I L Bloshanskii from Moscow State Regional University Russia **IoT and ICT for**

**Healthcare Applications** Nishu Gupta,Sara Paiva,2020-08-12 This book provides an insight on the importance that Internet of Things IoT and Information and Communication Technology ICT solutions can have in taking care of people s health Key features of this book present the recent and emerging developments in various specializations in curing health problems and finding their solutions by incorporating IoT and ICT This book presents useful IoT and ICT applications and architectures that cater to their improved healthcare requirements Topics include in home healthcare services based on the Internet of Things RFID technology for IoT based personal healthcare Real time reporting and monitoring Interfacing devices to IoT Smart medical services Embedded gateway configuration ECG Health monitoring infrastructure and more Features a number of practical solutions and applications of IoT and ICT on healthcare Includes application domains such as communication technology and electronic materials and devices Applies to researchers academics students and practitioners around the world **Computational Collective Intelligence. Technologies and Applications** Ngoc Thanh Nguyen,Kiem

Hoang,Piotr Jedrzejowicz,2012-11-28 The two volumes set LNCS 7653 and 7654 constitutes the refereed proceedings of the 4th International Conference on Computational Collective Intelligence ICCCI held in Ho Chi Minh City Vietnam in November 2012 The 113 revised full papers presented were carefully reviewed and selected from 397 submissions The papers are

organized in topical sections on Part I knowledge integration data mining for collective processing fuzzy modal and collective systems nature inspired systems language processing systems social networks and semantic web agent and multi agent systems classification and clustering methods modeling and optimization techniques for business intelligence Part II multi dimensional data processing web systems intelligent decision making methods for scheduling collective intelligence in web systems web systems analysis advanced data mining techniques and applications cooperative problem solving computational swarm intelligence and semantic methods for knowledge discovery and communication     *Blended Learning. New Challenges and Innovative Practices* Simon K.S. Cheung,Lam-for Kwok,Will W.K. Ma,Lap-Kei Lee,Harrison Yang,2017-05-25 This book constitutes the refereed proceedings of the 10th International Conference on Blended Learning ICBL 2017 held in Hong Kong China in June 2017 The 42 papers presented were carefully reviewed and selected from 100 submissions The papers are organized in topical sections named Keynotes Experiences in Blended Learning Strategies in Blended Learning Assessment for Blended Learning Computer Support Collaborative Learning Improved Flexibility of Learning Processes Open Educational Resources Pedagogical and Psychological Issues

## **Mining Sequential Patterns From Large Data Sets** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Mining Sequential Patterns From Large Data Sets**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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