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# MINING SEQUENTIAL PATTERNS FROM LARGE DATA SETS

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by

Wei Wang

Jiong Yang

 Springer

# Mining Sequential Patterns From Large Data Sets

**SA Adler**



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

*Mining Sequential Patterns from Large Data Sets* Wei Wang, Jiong Yang, 2005-07-26 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.

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.

**Searching for Frequent Sequential Patterns in Large Datasets** Linhui Jiang, 2003

**Handbook of Research on Innovations in Database Technologies and Applications** Viviana E. Ferragine, Jorge H. Doorn, Laura C. Rivero, 2009-01-01 This book provides a wide compendium of references to topics in the field of the databases systems and applications. Provided by publisher.

*Very Large Data Bases*, 2005

Proceedings of the 2001 ACM CIKM Henrique Paques, Ling Liu, David A. Grossman, 2001

Finding Frequent Patterns from Graph Datasets Michihiro Kuramochi, 2005

Proceedings of the ... International Conference on Information and Knowledge Management, 2001

*Advances in Knowledge Discovery and Data Mining*, 2005

**Synopses of Science and Engineering Papers, Graduate School of Science and Engineering, Waseda University, Tokyo, Japan**, 2007

*Proceedings of the 2000 ACM SIGMOD International Conference on Management of Data* Weidong Chen, Jeffrey F. Naughton, Philip A. Bernstein, 2000

*Proceedings of the ... IEEE International Conference on Fuzzy Systems*, 2004

3rd IEEE International Conference on Data Mining Xindong Wu, 2003 ICDM 03 brings together researchers and practitioners who describe their original research.

results and practical development experiences in Data Mining technology The papers explore subjects in many related data mining areas such as machine learning automated scientific discovery statistics pattern recognition knowledge acquisition soft computing databases data warehousing data visualization and knowledge based systems Data mining is an emerging and highly interdisciplinary field The ICDM 03 proceedings cover a broad and diverse range of topics related to data mining theory systems and applications Fast Algorithms for Mining Association Rules and Sequential Patterns Ramakrishnan Srikant,1996 **High Performance Spatial Visualization of Traffic Data** Shashi Shekhar,2004 Current visualizations techniques for identifying performance bottlenecks with loop detector traffic data are not sufficient for large data sets to create interactive visualization and analysis of possible scenarios This study seeks to develop a more effective means of processing data obtained at the Traffic Management Center TMC to identify recurring patterns in the traffic data that may be being lost in current data collection process The final objective is to create a software prototype for analysis

Encyclopedia of Multimedia Technology and Networking Margherita Pagani,2008-08-15 This publication offers a research compendium of human knowledge related to the emerging multimedia digital metamarket Provided by publisher **VLDB 2005** ,2005 **Journal of Information Science and Engineering** ,2004 **Proceedings, ... International Workshop on Research Issues in Data Engineering** ,2005 KDD ... ,2006

## Enjoying the Melody of Expression: An Mental Symphony within **Mining Sequential Patterns From Large Data Sets**

In a global used by screens and the ceaseless chatter of instantaneous connection, the melodic splendor and mental symphony produced by the published term frequently disappear into the back ground, eclipsed by the constant noise and distractions that permeate our lives. However, situated within the pages of **Mining Sequential Patterns From Large Data Sets** a marvelous fictional value full of organic emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, that captivating masterpiece conducts viewers on a mental journey, well unraveling the concealed melodies and profound influence resonating within each carefully crafted phrase. Within the depths of the touching analysis, we will investigate the book is central harmonies, analyze their enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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