Managing And Mining Graph Data

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Managing And Mining Graph Data

MANAGING AND MINING GRAPH DATA - Charu Aggarwal
xii MANAGING AND MINING GRAPH DATA 21 Dynamic Call Graphs 517 22 Bugs in Software 518 23 Bug Localization with Call Graphs 519 24 Graph and Tree Mining 520 3 Related Work 521 4 Call-Graph Reduction 525 41 Total Reduction 525 42 Iterations 526 43 Temporal Order 528 44 Recursion 529 45 Comparison 531 5 Call Graph Based Bug

GRAPH DATA MANAGEMENT AND MINING: A SURVEY …
14 MANAGING AND MINING GRAPH DATA structured data and XML [8] can typically be represented as graphs A detailed discussion of various kinds of graph mining algorithms may be found in [58]

Managing and Mining Large Graphs - KDD 2012
Managing and Mining Billion-Node Graphs Haixun Wang Microsoft Research Asia 1 graph data: –Specialized systems for pagerank, etc 8 This is hard Generality Large Data Graph Graph Mining Operations Plain M-V PageRank RWR Diamet er Conn Comp combine2() Multiply Multiply

Big Graph Mining: Frameworks and Techniques
data mining algorithms to discover interesting, unexpected and useful patterns in large amounts of graph data It aims also to provide deeper understanding of graph data In this context, several graph processing frameworks and scaling data mining/pattern mining techniques have been proposed to deal with very big graphs This paper gives an

Mining Big Data with RDF Graph Technology - Oracle
Conference Session: Mining Big Data with RDF Graph Technology: Discovering What You Didn't Know Moscone South – 200 3:15pm-4:15pm General Session: Building and Managing a Private Oracle Database Cloud Moscone South – 103

An introduction to Graph Data Management

T An introduction to Graph Data Management Renzo Angles1 and Claudio Gutierrez2 1 Dept of Computer Science, Universidad de Talca, Chile rangles@utalcacl 2 Dept of Computer Science, Universidad de Chile, Chile cgutierr@dccuchilecl Abstract A graph database is a database where the data …

Graph and Web Mining - Motivation, Applications and …

graph data mining, the structure of the data is just as important as its content We study the problem of discovering typical patterns of graph data The discovered patterns can be useful for many applications, including: compact representation of the information, finding

Summarizing Static and Dynamic Big Graphs

Graph data management and mining has become a hot topic in the database research community in recent years, influenced by the growth of knowledge bases and varieties of networks on the Web, as well as with the improvements in technology that has resulted in untapped sources of information Querying and reasoning about the

GraphChi: Large-Scale Graph Computation on Just a PC

GraphChi is able to execute several advanced data mining, graph mining, and machine learning algorithms on very large graphs, using just a single consumer-level computer We further extend GraphChi to support graphs that evolve over time, and demonstrate that, on a single computer, GraphChi can process over one hundred thousand graph

Associate Professor Office: MCS264/(330)672-9063 Ruoming …

Agrawal, book chapter in MANAGING AND MINING GRAPH DATA (Springer), edited by Charu Agrawal and Haixun Wang, February 2010 5 Predicting Biomarkers for Chronic Lymphocytic Leukemia Using Gene Co-expression Network Analyses for

29 Trajectory Data Mining: An Overview

tories into other formats, such as graph, matrix, and tensor (see the right part of Figure 1) The new representations of trajectories expand and diversify the approaches for trajectory data mining, leveraging existing mining techniques (eg, graph mining, Collaborative Filtering (CF), Matrix Factorization (MF), and Tensor Decomposition (TD)

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Graph Mining and Graph Kernels - UCSB

Difierence to our tutorial: Our previous tutorials presented graph mining and managing from a data mining/database point of view This new tutorial will focus on the convergence of graph pattern mining (data mining) and graph kernels (machine learning) By introducing the state-of-the-

Trajectory Data Mining: An Overview 1

into other formats, such as graph, matrix and tensor (see the right part of Figure 1) The new representations of trajectories expand and diversify the approaches for trajectory data mining, leveraging existing mining techniques, eg graph mining, collaborative filtering (CF), matrix factorization (MF), and tensor decomposition (TD)

Mining Billion-Scale Graphs: Patterns and Algorithms

of scalable graph mining algorithms on Hadoop This tutorial is complementary to the related tutorial "Managing and Mining Large Graphs: Systems

and Imple-mentations" Categories and Subject Descriptors H28 [Database Management]: Database Applications| Data Mining General Terms Design, Experimentation, Algorithms Keywords Graph Mining

Graph Data Mining with Arabesque - WordPress.com

automatic graph exploration required for graph data mining It is based on a paradigm that we call think like an embedding, or TLE An embedding is a subgraph representing an instance of a pattern of interest in the graph data mining problem, and a key character-istic of graph data mining is that we are interested in producing all output

Unstructured Data Management with Oracle Database 12c

» Management – Because unstructured data is stored in Oracle Database 12c, managing unstructured data can use the exact same administrative, monitoring and management features as any other database content » Indexing – To enable high performance querying, Oracle Database 12c has specialized indexes to access many types of unstructured data