Sherif Sakr (University of New South Wales, Australia) and Eric Pardede (LaTrobe University, Australia)

Graphs are a powerful tool for representing and understanding objects and their relationships in various application domains. The growing popularity of graph databases has generated data management problems that include finding efficient techniques for compressing large graph databases and suitable techniques for visualizing, browsing, and navigating large graph databases.

Graph Data Management: Techniques and Applications is a central reference source for different data management techniques for graph data structures and their application. This book discusses graphs for modeling complex structured and schemaless data from the Semantic Web, social networks, protein networks, chemical compounds, and multimedia databases and offers essential research for academics working in the interdisciplinary domains of databases, data mining, and multimedia technology.

Topics Covered:

- Business Process Graphs
- Clustering Vertices in Weighted Graphs
- Graph Applications in Chemoinformatics
- Graph Indexing Querying Techniques
- Kernel-Based Similarity Searches
- Large Scale Graph Mining
- Querying RDF
- Real and Synthetic Graphs
- Relational Approaches for Graph Pattern Matching
- Semantic Process Model Discovery

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

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