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Clustering, or partitioning data-points based on pairwise ... Connections of this setup with well-known random graph community models such as the stochastic block model will also be explored in this ...

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This eigenvector is associated with on-diagonal clustering. This is the procedure used by NEGOPY ... a justification nor an explanation of how this procedure will distort the graph's spectrum. We have ...

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One of the most well known methods for data clustering is the K-means algorithm ... a community detection

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algorithm can be employed to partition it. In the gradient flow method, a graph is also ...

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Satya Sahoo aims to characterize the role of brain connectivity in neurological disorders such as epilepsy using integrative graph models and highly scalable ... than 750GB of signal data using new ...

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Thus, BOLD FC is widely used to hierarchically partition the brain into functional modules ... (B) FC networks are often defined using tools from graph theory (15), where "edges" are defined by the ...

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Nature Chemistry, Vol. 2, ...

Membrane Structural Biology

It provides a feature for specifying the cluster or region where specific data ...

MongoDB-compatible document, graph, key-value, and Cassandra-compatible wide column. Furthermore, Cosmos DB ...

Fauna adds geo-isolation to globally distributed database cloud

(G) Hinokitiol increased ^{55}Fe influx into *fet3 Δ trt1 Δ* yeast, whereas

C2deOHino did not ($n = 3$). In (E) to (G), graphs depict means \pm SEM. h, hours. Iron homeostasis, in particular, is maintained by ...

Restored iron transport by a small molecule promotes absorption and hemoglobinization in animals

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There are refinements for managing data access, partitioning, and index isolation ... and made portable when rebalancing the cluster. And a more flexible query optimizer supersedes the former ...

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Graph partitioning and graph clustering are ubiquitous subtasks in many applications where graphs play an important role. Generally speaking, both techniques aim at the identification of vertex subsets with many internal and few external edges. To name only a few, problems addressed by graph partitioning and graph clustering algorithms are: What are the communities within an (online) social network? How do I speed up a numerical simulation by mapping it efficiently onto a parallel computer? How must components be organized on a computer chip such that they can communicate efficiently with each other? What are the segments of a

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digital image? Which functions are certain genes (most likely) responsible for? The 10th DIMACS Implementation Challenge Workshop was devoted to determining realistic performance of algorithms where worst case analysis is overly pessimistic and probabilistic models are too unrealistic. Articles in the volume describe and analyze various experimental data with the goal of getting insight into realistic algorithm performance in situations where analysis fails.

The book presents the dissertation "High Quality Graph Partitioning" of Christian Schulz.

Graph partitioning is a theoretical subject with applications in many areas, principally: numerical analysis, programs mapping onto parallel

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architectures, image segmentation, VLSI design. During the last 40 years, the literature has strongly increased and big improvements have been made. This book brings together the knowledge accumulated during many years to extract both theoretical foundations of graph partitioning and its main applications.

Design and optimization of integrated circuits are essential to the creation of new semiconductor chips, and physical optimizations are becoming more prominent as a result of semiconductor scaling. Modern chip design has become so complex that it is largely performed by specialized software, which is frequently updated to address advances in semiconductor technologies and increased problem complexities. A user of such software

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needs a high-level understanding of the underlying mathematical models and algorithms. On the other hand, a developer of such software must have a keen understanding of computer science aspects, including algorithmic performance bottlenecks and how various algorithms operate and interact. "VLSI Physical Design: From Graph Partitioning to Timing Closure" introduces and compares algorithms that are used during the physical design phase of integrated-circuit design, wherein a geometric chip layout is produced starting from an abstract circuit design. The emphasis is on essential and fundamental techniques, ranging from hypergraph partitioning and circuit placement to timing closure.

Algorithm Engineering is a

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methodology for algorithmic research that combines theory with implementation and experimentation in order to obtain better algorithms with high practical impact. Traditionally, the study of algorithms was dominated by mathematical (worst-case) analysis. In Algorithm Engineering, algorithms are also implemented and experiments conducted in a systematic way, sometimes resembling the experimentation processes known from fields such as biology, chemistry, or physics. This helps in counteracting an otherwise growing gap between theory and practice.

This textbook discusses the design and implementation of basic algebraic graph algorithms, and algebraic graph algorithms for complex networks, employing matroids whenever

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possible. The text describes the design of a simple parallel matrix algorithm kernel that can be used for parallel processing of algebraic graph algorithms. Example code is presented in pseudocode, together with case studies in Python and MPI. The text assumes readers have a background in graph theory and/or graph algorithms.

This book describes exciting new opportunities for utilizing robust graph representations of data with common machine learning algorithms. Graphs can model additional information which is often not present in commonly used data representations, such as vectors. Through the use of graph distance ? a relatively new approach for determining graph similarity ? the authors show how well-known

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algorithms, such as k-means clustering and k-nearest neighbors classification, can be easily extended to work with graphs instead of vectors.

This allows for the utilization of additional information found in graph representations, while at the same time employing well-known, proven algorithms. To demonstrate and investigate these novel techniques, the authors have selected the domain of web content mining, which involves the clustering and classification of web documents based on their textual substance. Several methods of representing web document content by graphs are introduced; an interesting feature of these representations is that they allow for a polynomial time distance computation, something which is typically an NP-complete problem when using graphs.

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Experimental results are reported for both clustering and classification in three web document collections using a variety of graph representations, distance measures, and algorithm parameters. In addition, this book describes several other related topics, many of which provide excellent starting points for researchers and students interested in exploring this new area of machine learning further. These topics include creating graph-based multiple classifier ensembles through random node selection and visualization of graph-based data using multidimensional scaling.

Many data types arising from data mining applications can be modeled as bipartite graphs, examples include terms and documents in a text corpus, customers and purchasing items in

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market basket analysis and reviewers and movies in a movie recommender system. In this paper, the authors propose a new data clustering method based on partitioning the underlying bipartite graph. The partition is constructed by minimizing a normalized sum of edge weights between unmatched pairs of vertices of the bipartite graph. They show that an approximate solution to the minimization problem can be obtained by computing a partial singular value decomposition (SVD) of the associated edge weight matrix of the bipartite graph. They point out the connection of their clustering algorithm to correspondence analysis used in multivariate analysis. They also briefly discuss the issue of assigning data objects to multiple clusters. In the experimental results, they apply their

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clustering algorithm to the problem of document clustering to illustrate its effectiveness and efficiency.

What does the Web look like? How can we find patterns, communities, outliers, in a social network? Which are the most central nodes in a network? These are the questions that motivate this work. Networks and graphs appear in many diverse settings, for example in social networks, computer-communication networks (intrusion detection, traffic management), protein-protein interaction networks in biology, document-text bipartite graphs in text retrieval, person-account graphs in financial fraud detection, and others. In this work, first we list several surprising patterns that real graphs tend to follow. Then we give a detailed

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list of generators that try to mirror these patterns. Generators are important, because they can help with "what if" scenarios, extrapolations, and anonymization. Then we provide a list of powerful tools for graph analysis, and specifically spectral methods (Singular Value Decomposition (SVD)), tensors, and case studies like the famous "pageRank" algorithm and the "HITS" algorithm for ranking web search results. Finally, we conclude with a survey of tools and observations from related fields like sociology, which provide complementary viewpoints.

Table of Contents:
Introduction / Patterns in Static Graphs / Patterns in Evolving Graphs / Patterns in Weighted Graphs / Discussion: The Structure of Specific Graphs / Discussion: Power Laws and Deviations / Summary of Patterns /

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Graph Generators / Preferential
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SVD, Random Walks, and Tensors /
Tensors / Community Detection /
Influence/Virus Propagation and
Immunization / Case Studies / Social
Networks / Other Related Work /
Conclusions

This book adopts a detailed and methodological algorithmic approach to explain the concepts of pattern recognition. While the text provides a systematic account of its major topics such as pattern representation and nearest neighbour based classifiers, current topics – neural networks, support vector machines and decision

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trees – attributed to the recent vast progress in this field are also dealt with. Introduction to Pattern Recognition and Machine Learning will equip readers, especially senior computer science undergraduates, with a deeper understanding of the subject matter.

Contents: Introduction Types of Data Feature Extraction and Feature Selection Bayesian Learning Classification Classification Using Soft Computing Techniques Data Clustering Soft Clustering Application – Social and Information Networks Readership: Academics and working professionals in computer science. Key Features: The algorithmic approach taken and the practical issues dealt with will aid the reader in writing programs and implementing

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Clustering Covers recent and advanced
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Rader, 2013, Paperback
methods Covers recent and advanced
topics by providing working exercises,
examples and illustrations in each
chapter Provides the reader with a
deeper understanding of the subject m
atter Keywords: Clustering; Classificatio
n; Supervised Learning; Soft Computing

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