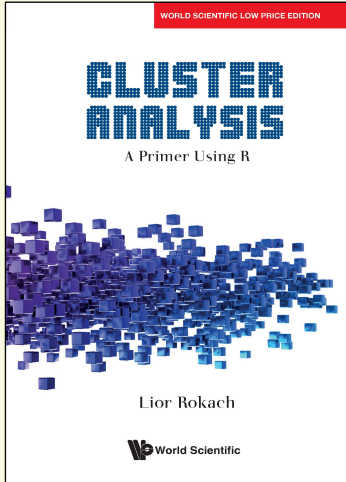


Cluster Analysis

A Primer Using R



By **Lior Rokach**

(Ben-Gurion University of the Negev, Israel)

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ABOUT THE BOOK

Cluster analysis is a fundamental data analysis task that aims to group similar data points together, revealing the inherent structure and patterns within complex datasets. This book serves as a comprehensive and accessible guide, taking readers on a captivating journey through the foundational principles of cluster analysis.

At its core, the book delves deeply into various clustering algorithms, covering partitioning methods, hierarchical methods, and advanced techniques such as mixture density-based clustering, graph clustering, and grid-based clustering. Each method is presented with clear, concise explanations, supported by illustrative examples and hands-on implementations in the R programming language — a popular and powerful tool for data analysis and visualization.

Recognizing the importance of cluster validation and evaluation, the book devotes a dedicated chapter to exploring a wide range of internal and external quality criteria, equipping readers with the necessary tools to assess the performance of clustering algorithms. For those eager to stay at the forefront of the field, the book also presents deep learning-based clustering methods, showcasing the remarkable capabilities of neural networks in uncovering hidden structures within complex, high-dimensional data.

READERSHIP

Advanced undergraduate and graduate students, researchers and practitioners in the fields of machine learning, statistics, social sciences, data analysis, data science, data mining and bioinformatics.

CONTENTS

- Introduction to Data Clustering
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- Partitioning Methods for Minimizing Distance Measures

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- Grid-Based Clustering Methods
- Deep Learning for Clustering
- Spectral Clustering

ABOUT THE AUTHOR

Lior Rokach, is a Professor of Software and Information Systems Engineering (SISE) at the Ben-Gurion University of the Negev (BGU). Professor Rokach's research group studies machine learning algorithms and their applications in Recommender Systems, Cyber Security, and Medical Informatics. Rokach has co-founded four AI companies and was awarded 22 patents for his AI and information technology inventions. A recent study conducted by a team from Stanford University ranks Prof. Rokach among the top 0.1% of AI researchers according to their career-long impact.

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