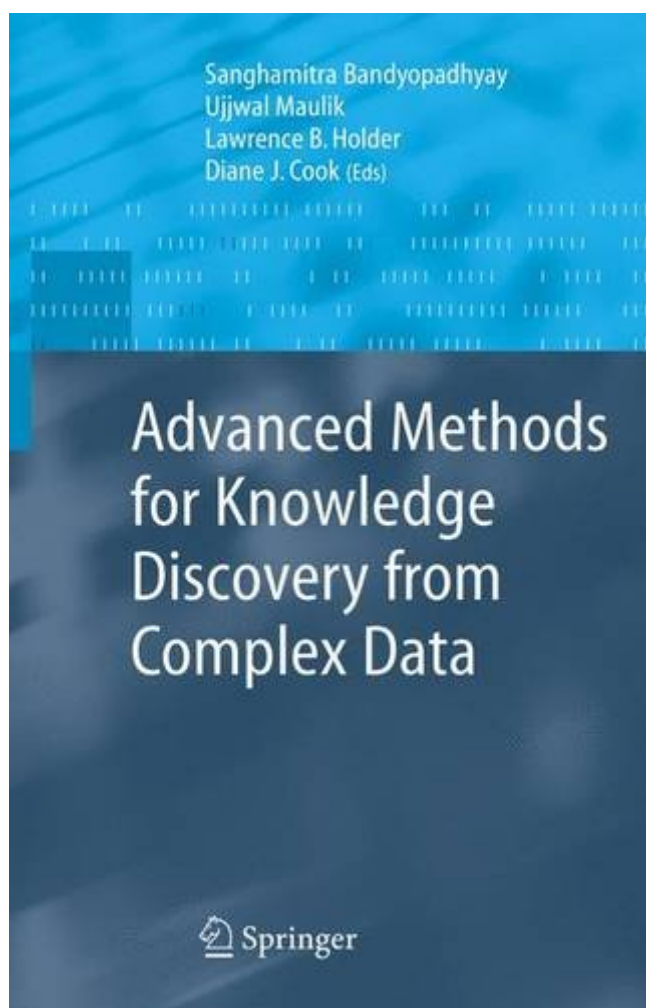


# Advanced Methods for Knowledge Discovery from Complex Data (Advanced Information and Knowledge Processing) PDF



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The growth in the amount of data collected and generated has exploded in recent times with the widespread automation of various day-to-day activities, advances in high-level scientific and engineering research and the development of efficient data collection tools. This has given rise to the need for automatically analyzing the data in order to extract knowledge from it, thereby making the data potentially more useful. Knowledge discovery and data mining (KDD) is the process of identifying valid, novel, potentially useful and ultimately understandable patterns from massive data repositories. It is a multi-disciplinary topic, drawing from several fields including expert systems,

machine learning, intelligent databases, knowledge acquisition, case-based reasoning, pattern recognition and statistics. Many data mining systems have typically evolved around well-organized database systems (e.g., relational databases) containing relevant information. But, more and more, one finds relevant information hidden in unstructured text and in other complex forms. Mining in the domains of the world-wide web, bioinformatics, geoscientific data, and spatial and temporal applications comprise some illustrative examples in this regard. Discovery of knowledge, or potentially useful patterns, from such complex data often requires the application of advanced techniques that are better able to exploit the nature and representation of the data. Such advanced methods include, among others, graph-based and tree-based approaches to relational learning, sequence mining, link-based classification, Bayesian networks, hidden Markov models, neural networks, kernel-based methods, evolutionary algorithms, rough sets and fuzzy logic, and hybrid systems. Many of these methods are developed in the following chapters.

## **Advanced Methods for Knowledge Discovery from Complex Data (Advanced Information and Knowledge Processing) Review**

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