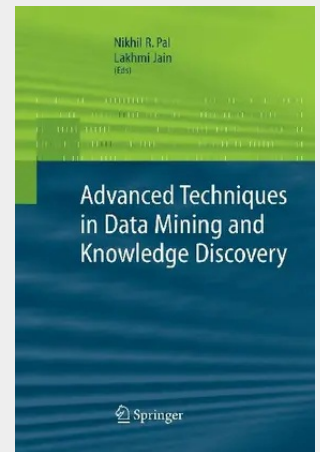


Advanced Techniques in Knowledge Discovery and Data Mining

Data mining and knowledge discovery (DMKD) is a rapidly expanding field in computer science. It has become very important because of an increased demand for methodologies and tools that can help the analysis and understanding of huge amounts of data generated on a daily basis by institutions like hospitals, research laboratories, banks, insurance companies, and retail stores and by Internet users. This explosion is a result of the growing use of electronic media. But what is data mining (DM)? A Web search using the Google search engine retrieves many (really many) definitions of data mining. We include here a few interesting ones. One of the simpler definitions is: "As the term suggests, data mining is the analysis of data to establish relationships and identify patterns" [1]. It focuses on identifying relations in data. Our next example is more elaborate: An information extraction activity whose goal is to discover hidden facts contained in databases. Using a combination of machine learning, statistical analysis, modeling techniques and database technology, data mining finds patterns and subtle relationships in data and infers rules that allow the prediction of future results. Typical applications include market segmentation, customer profiling, fraud detection, evaluation of retail promotions, and credit risk analysis [2].

Presents the latest and most advanced tools and techniques available for data and web mining strategies with chapters written by leading world experts. Provides practicing engineers and scientists with case studies using most recent approaches for data and web mining strategies, and research students with in-depth tutorials on the topics covered. This book will be welcomed by researchers, engineers and developers involved in knowledge, and information management.



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