



## Classification and Clustering for Knowledge Discovery

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### *ABOUT THIS BOOK*

Knowledge Discovery today is a significant study and research area. In finding answers to many research questions in this area, the ultimate hope is that knowledge can be extracted from various forms of data around us. This book covers recent advances in unsupervised and supervised data analysis methods in Computational Intelligence for knowledge discovery. In its first part the book provides a collection of recent research on distributed clustering, self organizing maps and their recent extensions. If labeled data or data with known associations are available, we may be able to use supervised data analysis methods, such as classifying neural networks, fuzzy rule-based classifiers, and decision trees. Therefore this book presents a collection of important methods of supervised data analysis. "Classification and Clustering for Knowledge Discovery" also includes variety of applications of knowledge discovery in health, safety, commerce, mechatronics, sensor networks, and telecommunications.

**Content Level** » Research

**Keywords** » Bio-Medical - Business - Data Cleaning - Data Mining - Image Processing - Knowledge Discovery - Mechatronics - Soft Computing - Uncertainty Management

**Related subjects** » Applications - Artificial Intelligence - Computational Intelligence and Complexity - Image Processing - Information Systems and Applications - Operations Research & Decision Theory

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