

# Preface

Data mining and knowledge discovery is a fast growing field of study. Numerous applications of data mining are reported on various domains. Due to significant advancements in collection and storage technologies, data mining techniques remain important tools in knowledge discovery and decision-making processes. People have now realized the importance of data, and with the help of data mining techniques, data become more meaningful than before.

This book presents research results on transactional data, time-stamped data, and multiple databases. Also, data mining applications are found on different other data such as uncertain data, social network data, sensor data, biological data, high-dimensional data, imbalance data, big data, privacy preserving data, text data, heterogeneous data, noisy data, outliers, and graph data.

Data analysis using market basket data dominated at the early stages, and research results are now also being reported. Mining time-stamped data seems to be a natural activity as most of the data generated are related to time. Mining multiple databases is relatively a recent topic of data mining. Various research results started coming since the year 2003. We present here our research work in the field of knowledge discovery in databases (KDD) done during the last ten years.

The authors of this book extend their gratitude to Professor Lakhmi Jain for recognizing our work, and Dr. Thomas Ditzinger for accepting our work on behalf of Springer. We thank Ms. Gajalakshmi for coordinating the production process. We thank Ms. Mathangi for overseeing the entire production process.

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Advances in Knowledge Discovery in Databases

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2015, XV, 370 p. 136 illus., Hardcover

ISBN: 978-3-319-13211-2