



Mathematical Tools for Data Mining: Set Theory, Partial Orders, Combinatorics (Advanced Information and Knowledge Processing)

Dan Simovici, Chabane Djeraba

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This volume was born from the experience of the authors as researchers and educators, which suggests that many students of data mining are handicapped in their research by the lack of a formal, systematic education in its mathematics. The data mining literature contains many excellent titles that address the needs of users with a variety of interests ranging from decision making to pattern investigation in biological data. However, these books do not deal with the mathematical tools that are currently needed by data mining researchers and doctoral students. We felt it timely to produce a book that integrates the mathematics of data mining with its applications. We emphasize that this book is about mathematical tools for data mining and not about data mining itself; despite this, a substantial amount of applications of mathematical concepts in data mining are presented. The book is intended as a reference for the working data miner. In our opinion, three areas of mathematics are vital for data mining: set theory, including partially ordered sets and combinatorics; linear algebra, with its many applications in principal component analysis and neural networks; and probability theory, which plays a foundational role in statistics, machine learning and data mining. This volume is dedicated to the study of set-theoretical foundations of data mining. Two further volumes are contemplated that will cover linear algebra and probability theory. The first part of this book, dedicated to set theory, begins with a study of functions and relations. Applications of these fundamental concepts to such issues as equivalences and partitions are discussed. Also, we prepare the ground for the following volumes by discussing indicator functions, fields and σ -fields, and other concepts.

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