# Contents
## by Volume

**Volume I**

**Section 1. Fundamental Concepts and Theories**

*This section serves as the foundation for this exhaustive reference tool by addressing crucial theories essential to the understanding of data mining and warehousing. Chapters found within these pages provide an excellent framework in which to position data mining and warehousing within the field of information science and technology. Individual contributions provide insight into the critical incorporation of data mining and warehousing in the global community and explore crucial stumbling blocks of this field. Within this introductory section, the reader can learn and choose from a compendium of expert research on the elemental theories underscoring the research and application of data mining and warehousing.*

**Section 2. Development and Design Methodologies**

*This section provides in-depth coverage of conceptual architecture, enabling the reader to gain a comprehensive understanding of the emerging technological developments within the field of data mining and warehousing. Research fundamentals imperative to the understanding of developmental processes within information management are offered. From broad examinations to specific discussions on electronic tools, the research found within this section spans the discipline while also offering detailed, specific discussions. Basic designs, as well as abstract developments, are explained within these chapters, and frameworks for implementing secure data warehouses are explored.*

**Volume II**

**Volume III**



**Section 3. Tools and Technologies**

*This section presents extensive coverage of the interaction between data mining and warehousing and various tools and technologies that researchers, practitioners, and students alike can implement in their daily lives. These chapters educate readers about fundamental tools such as the Internet and mobile technology, while also providing insight into new and upcoming technologies, theories, and instruments that will soon be commonplace. Within these rigorously researched chapters, readers are presented with countless examples of the tools and technologies essential to the field of data mining and warehousing. In addition, the successful implementation and resulting impact of these various tools and technologies are discussed within this collection of chapters.*

**Section 4. Utilization and Application**

*This section introduces and discusses a variety of the existing applications of data mining and warehousing that have influenced government, culture, and biology and also proposes new ways in which data mining and warehousing can be implemented in society. Within these selections, particular issues, such as the use of data mining and warehousing in human resources and the incorporation of data analysis techniques into homeland security strategies, are explored and debated. Contributions included in this section provide excellent coverage of today's IT community and insight into how data mining and warehousing impacts the social fabric of our present-day global village.*

**Volume IV**

**Section 5. Organizational and Social Implications**

*This section includes a wide range of research pertaining to the social and organizational impact of data mining and warehousing around the world. Chapters introducing this section illustrate varying perspectives on organizational data mining, as well as its relationship to cognition. Other contributions discuss the potential of data mining and warehousing for transforming business, government and medicine, as well as providing insight into individual behavior. Particular selections explain the design of a data model for social applications, provide insight into the implications of data mining and warehousing in the banking sector, and explain data mining's use in generating credit scores. The inquiries and methods presented in this section offer insight into the integration of data mining and warehousing in social and organizational settings while also emphasizing the potential for future societal applications.*

**Volume V**



**Section 6. Managerial Impact**

*This section presents contemporary coverage of the more formal implications of data mining and warehousing, more specifically related to the corporate and managerial utilization of information-sharing technologies and applications, and how these technologies can be facilitated within organizations. Core ideas such as successful data mining in franchise organizations and the use of data analysis to predict*

*customer behavior are discussed throughout these chapters. Contributions within this section seek to answer the fundamental question of data mining and warehousing implementation in organizations: How can particular techniques best be integrated into businesses and what are the potential obstacles to such integration? Particular chapters provide case studies of data mining and warehousing use in business and address some of the most significant issues that have arisen from data mining and warehousing implementation.*

**Section 7. Critical Issues**

*This section addresses conceptual and theoretical issues related to the field of data mining and warehousing, which include the ethical implications of data collection and the numerous approaches adopted by researchers that aid in making data mining and warehousing more effective. Within these chapters, the reader is presented with an in-depth analysis of the most current and relevant conceptual inquires within this growing field of study. Particular chapters address data partitioning, data warehouse refreshment, and mining with incomplete data sets. Overall, contributions within this section ask unique, often theoretical questions related to the study of data mining and warehousing and, more often than not, conclude that solutions are both numerous and contradictory.*

**Volume VI**

**Section 8. Emerging Trends**

*This section highlights research potential within the field of data mining and warehousing while also exploring uncharted areas of study for the advancement of the discipline. Introducing this section are selections providing . Discussions exploring semantic data mining, Web data warehousing and spatio-temporal databases provide insight into forthcoming issues in data mining and warehousing study. These contributions, which conclude this exhaustive, multi-volume set, provide emerging trends and suggestions for future research within this rapidly expanding discipline.*