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At the intersection of computer science and healthcare, data analytics has emerged as a promising tool for solving problems across many healthcare-related disciplines. Supplying a comprehensive overview of recent healthcare analytics research, **Healthcare Data Analytics** provides a clear understanding of the analytical techniques currently available to solve healthcare problems.

The book details novel techniques for acquiring, handling, retrieving, and making best use of healthcare data. It analyzes recent developments in healthcare computing and discusses emerging technologies that can help improve the health and well-being of patients.

Written by prominent researchers and experts working in the healthcare domain, the book sheds light on many of the computational challenges in the field of medical informatics. Each chapter in the book is structured as a "survey-style" article discussing the prominent research issues and the advances made on that research topic. The book is divided into three major categories:

- *Healthcare Data Sources and Basic Analytics* - details the various healthcare data sources and analytical techniques used in the processing and analysis of such data
- *Advanced Data Analytics for Healthcare* - covers advanced analytical methods, including clinical prediction models, temporal pattern mining methods, and visual analytics
- *Applications and Practical Systems for Healthcare* - covers the applications of data analytics to pervasive healthcare, fraud detection, and drug discovery along with systems for medical imaging and decision support

Computer scientists are usually not trained in domain-specific medical concepts, whereas medical practitioners and researchers have limited exposure to the data analytics area. The contents of this book will help to bring together these diverse communities by carefully and comprehensively discussing the most relevant contributions from each domain.

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Review

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?Computing Reviews

"… an outstanding book that contains a resourceful introduction to fundamental knowledge in data sources and basic analysis, as well as a presentation of updated research with respect to data analytic methods and applications in healthcare practice. The book balances the various levels of detail to meet the needs of researchers and practitioners with diverse backgrounds and interests. … a highly recommended book for those who wish to explore the healthcare data analytics domain."
?*Journal of Biomedical Informatics*, 58, 2015

About the Author

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