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Computer Science : Data Mining and Knowledge Discovery

Consoli, S., Reforgiato Recupero, D., Petković, M. (Eds.)

Data Science for Healthcare

Methodologies and Applications

- Connects machine learning, big data analytics, statistics, pattern recognition, computer vision, and Semantic Web technologies to healthcare applications.
- Highlights the successful application of these technologies in various healthcare areas.
- Intended for data scientists involved in the healthcare or medical sector.

This book seeks to promote the exploitation of data science in healthcare systems. The focus is on advancing the automated analytical methods used to extract new knowledge from data for healthcare applications. To do so, the book draws on several interrelated disciplines, including machine learning, big data analytics, statistics, pattern recognition, computer vision, and Semantic Web technologies, and focuses on their direct application to healthcare. Building on three tutorial-like chapters on data science in healthcare, the following eleven chapters highlight success stories on the application of data science in healthcare, where data science and artificial intelligence technologies have proven to be very promising. This book is primarily intended for data scientists involved in the healthcare or medical sector. By reading this book, they will gain essential insights into the modern data science technologies needed to advance innovation for both healthcare businesses and patients. A basic grasp of data science is recommended in order to fully benefit from this book.

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