

Sensor Data Analytics for Intelligent Healthcare Delivery

This book explores the transformative potential of sensor data analytics in healthcare, focusing on both real-time and streaming analytics applications in clinical and non-clinical environments. It introduces the foundations of sensor data collection and analytics, delving into data acquisition techniques, mining challenges, and the integration of wearable technologies. It addresses key methodologies and real-world use cases, illustrating how sensor data can improve healthcare delivery, optimize operations, and enhance patient outcomes. It includes topics from algorithmic approaches to practical implementations across a variety of medical domains. Key Features: - Covers fundamental concepts of sensor data acquisition, preprocessing, and real-time analysis for healthcare systems. - Examines the role of wearables in continuous monitoring and their analytics use in clinical workflows. - Addresses the challenges and techniques for handling streaming data in dynamic healthcare environments. - Explores machine learning and data mining algorithms tailored to healthcare sensor data. - Provides examples across hospital operations, patient monitoring, diagnostics, and healthcare management. This book is for researchers and practitioners in data science, healthcare informatics, biomedical engineering, and healthcare management.

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