Big Data Analytics in Healthcare

- Presents novel as well as modified heuristics and metaheuristics along with its validation by solving complex big data problems associated with healthcare.
- Discusses a multifaceted and state-of-the-art literature survey associated with the healthcare data, their modalities, complexities and methodologies along with a complete mathematical formulation.
- Provides recent research on big data analytics in healthcare.

This book includes state-of-the-art discussions on various issues and aspects of the implementation, testing, validation, and application of big data in the context of healthcare. The concept of big data is revolutionary, both from a technological and societal well-being standpoint. This book provides a comprehensive reference guide for engineers, scientists, and students studying/involved in the development of big data tools in the areas of healthcare and medicine. It also features a multifaceted and state-of-the-art literature review on healthcare data, its modalities, complexities, and methodologies, along with mathematical formulations.

The book is divided into two main sections, the first of which discusses the challenges and opportunities associated with the implementation of big data in the healthcare sector. In turn, the second addresses the mathematical modeling of healthcare problems, as well as current and potential future big data applications and platforms.

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