

1. Record Nr.	UNINA9910253952503321
Titolo	Healthcare and Big Data Management // edited by Bairong Shen
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2017
ISBN	981-10-6041-X
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (V, 164 p. 30 illus., 23 illus. in color.)
Collana	Advances in Experimental Medicine and Biology, , 0065-2598 ; ; 1028
Disciplina	610.285
Soggetti	Bioinformatics Molecular biology Molecular Medicine Computational Biology/Bioinformatics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Chapter 1 How to become a smart patient in the era of precision medicine? -- Chapter 2 Physiological Informatics: Collection and Analyses of Data from Wearable Sensors and Smartphone for Healthcare -- Chapter 3 Entropy for the Complexity of Physiological Signal Dynamics -- Chapter 4 Data Platform for the Research and Prevention of Alzheimer's disease -- Chapter 5 Data analysis for gut microbiota and health -- Chapter 6 Ontology-based Vaccine Adverse Event Representation and Analysis -- Chapter 7 LEMRG – decision rule generation algorithm for mining microRNA expression data -- Chapter 8 Privacy Challenges of Genomic Big Data -- Chapter 9 Systems health, a transition from disease management towards health promotion.
Sommario/riassunto	The book addresses the interplay of healthcare and big data management. Thanks to major advances in big data technologies and precision medicine, healthcare is now becoming the new frontier for both scientific research and economic development. This volume covers a range of aspects, including: big data management for healthcare; physiological and gut microbiota – data collection and analysis; big data standardization and ontology; and personal data privacy and systems level modeling in the healthcare context. The book offers a valuable resource for biomedical informaticians, clinicians, health practitioners and researchers alike.

