

1. Record Nr.	UNINA9910767507003321
Titolo	Internet of Things and Big Data Technologies for Next Generation Healthcare // edited by Chintan Bhatt, Nilanjan Dey, Amira S. Ashour
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-49736-7
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (X, 388 p. 159 illus.)
Collana	Studies in Big Data, , 2197-6503 ; ; 23
Disciplina	004.6780151932
Soggetti	Computational intelligence Artificial intelligence Medical informatics Biomedical engineering Medicine - Practice Computational Intelligence Artificial Intelligence Health Informatics Biomedical Engineering and Bioengineering Practice and Hospital Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Sommario/riassunto	This comprehensive book focuses on better big-data security for healthcare organizations. Following an extensive introduction to the Internet of Things (IoT) in healthcare including challenging topics and scenarios, it offers an in-depth analysis of medical body area networks with the 5th generation of IoT communication technology along with its nanotechnology. It also describes a novel strategic framework and computationally intelligent model to measure possible security vulnerabilities in the context of e-health. Moreover, the book addresses healthcare systems that handle large volumes of data driven by patients' records and health/personal information, including big-data-based knowledge management systems to support clinical decisions.

Several of the issues faced in storing/processing big data are presented along with the available tools, technologies and algorithms to deal with those problems as well as a case study in healthcare analytics. Addressing trust, privacy, and security issues as well as the IoT and big-data challenges, the book highlights the advances in the field to guide engineers developing different IoT devices and evaluating the performance of different IoT techniques. Additionally, it explores the impact of such technologies on public, private, community, and hybrid scenarios in healthcare. This book offers professionals, scientists and engineers the latest technologies, techniques, and strategies for IoT and big data.

---