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Autore	Nikulin, Viacheslav V.
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Descrizione fisica	VIII, 251 p. : ill. ; 24 cm.
Altri autori (Persone)	Shafarevich, Igor R.
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Titolo	Internet of Things Use Cases for the Healthcare Industry [[electronic resource] /] / edited by Pethuru Raj, Jyotir Moy Chatterjee, Abhishek Kumar, B. Balamurugan
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-37526-9
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XII, 296 p. 79 illus., 59 illus. in color.)
Disciplina	610.28563
Soggetti	Computer communication systems Computer engineering Internet of things Embedded computer systems Health informatics Input-output equipment (Computers) Computer Communication Networks Cyber-physical systems, IoT Health Informatics Input/Output and Data Communications
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Nota di contenuto	AI in Health Sector -- Real-Time Smart Healthcare Model using IoT -- A Fog Based Approach for Real-Time Analytics of IoT-Enabled Healthcare -- Applications of IoT in Indoor Air Quality Monitoring Systems -- CloudIoT for Smart Healthcare: Architecture, Issues and Challenges -- Impact of IoT on the Healthcare Producers: Epitomizing Pharmaceutical Drug Discovery Process -- Cyber-Security Threats in Medical Devices -- Smart Healthcare Use Cases and Applications -- IoT Use Cases and Applications -- Internet of Things for Ambient Assisted Living - An Overview -- Smart Health care Applications and Real Time Analytics through Edge Computing -- The Role of Blockchain for Medical Electronics Security -- Clinical Data Analysis using IoT Data Analytics Platforms -- Internet of Things - Tools and Technologies in Healthcare

-- Clinical data analysis using IoT -- Security Issues in IoT and Healthcare Devices.

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Sommario/riassunto

This book explores potentially disruptive and transformative healthcare-specific use cases made possible by the latest developments in Internet of Things (IoT) technology and Cyber-Physical Systems (CPS). Healthcare data can be subjected to a range of different investigations in order to extract highly useful and usable intelligence for the automation of traditionally manual tasks. In addition, next-generation healthcare applications can be enhanced by integrating the latest knowledge discovery and dissemination tools. These sophisticated, smart healthcare applications are possible thanks to a growing ecosystem of healthcare sensors and actuators, new ad hoc and application-specific sensor and actuator networks, and advances in data capture, processing, storage, and mining. Such applications also take advantage of state-of-the-art machine and deep learning algorithms, major strides in artificial and ambient intelligence, and rapid improvements in the stability and maturity of mobile, social, and edge computing models. .

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