1. Record Nr. UNISA996465460403316

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
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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.
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. .

2.

Record Nr.	UNINA9910257415003321
Titolo	Atomic Physics Methods in Modern Research [[electronic resource]] : Selection of Papers Dedicated to Gisbert zu Putlitz on the Occasion of his 65th Birthday / / edited by Klaus Jungmann, Joachim Kowalski, Irene Reinhard, Frank Traeger
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1997
ISBN	3-540-69632-6
Edizione	[1st ed. 1997.]
Descrizione fisica	1 online resource (IX, 454 p. 87 illus.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 499
Disciplina	539.7
Soggetti	Atoms Physics Chemistry, Physical and theoretical Biophysics Materials—Surfaces Thin films Atomic, Molecular, Optical and Plasma Physics Physical Chemistry Biological and Medical Physics, Biophysics Surfaces and Interfaces, Thin Films

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Two-photon method for metrology in hydrogen -- High precision atomic spectroscopy of muonium and simple muonic atoms -- The muonium atom as a probe of physics beyond the standard model -- Can atoms trapped in solid helium be used to search for physics beyond the standard model? -- g-Factors of subatomic particles -- Laser spectroscopy of metastable antiprotonic helium atomcules -- Polarized, compressed 3He-gas and its applications -- Medical NMR sensing with laser-polarized 3He and 129Xe -- Test of special relativity in a heavy ion storage ring -- Resonance fluorescence of a single ion -- Resonance raman studies of the relaxation of photoexcited molecules in solution on the picosecond timescale -- Four-quantum RF-resonance in the ground state of an alkaline atom -- Hard highly directional X-radiation emitted by a charged particle moving in a carbon nanotube -- Quasiclassical approximation in the theory of scattering of polarized atoms -- Ion beam inertial fusion -- Spin-echo experiments with neutrons and with atomic beams -- New generation of light sources for applications in spectroscopy -- Remote sensing of the environment using laser radar techniques -- Applied laser spectroscopy in combustion devices -- The surface of liquid helium - an unusual substrate for unusual coulomb systems -- Aspects of laser-assisted scanning tunneling microscopy of thin organic layers -- Optical spectroscopy of metal clusters -- New concepts for information storage based on color centers -- Excitons and radiation damage in alkali halides -- Polarization of negative muons implanted in the fullerene C60: Speculations about a null result -- Positronium in condensed matter studied with spin-polarized positrons -- Light-induced liberation of atoms and molecules from solid surfaces -- On the shoulders of giants — Early history of hyperfine structure spectroscopy. For gisbert zu putlitz.
Sommario/riassunto	Atomic physics has played a central role in the development of modern physics. Progress was based on newly invented scientific methods and experimental tools and today these techniques are successfully employed in a wide variety of highly active areas in modern research, extending from investigations of most fundamental interactions in physics to experiments related to topics in applied sciences and technical aspects. With steadily increasing importance they are found in areas well outside of classical atomic physics in fields such as nuclear and particle physics, metrology, physics of condensed matter and surfaces, physical chemistry, chemistry, medicine and environmental research. This book gives a thorough survey of the methods and techniques in key experiments of interdisciplinary research.