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Titolo	Intelligent Healthcare : Applications of AI in eHealth / / edited by Surbhi Bhatia, Ashutosh Kumar Dubey, Rita Chhikara, Poonam Chaudhary, Abhishek Kumar
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ISBN	3-030-67051-1
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (328 pages)
Collana	EAI/Springer Innovations in Communication and Computing, , 2522-8609
Disciplina	610.28563
Soggetti	Telecommunication Biomedical engineering Medical informatics Application software Communications Engineering, Networks Biomedical Engineering and Bioengineering Health Informatics Computer and Information Systems Applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Part –I Medical Expert Systems -- Mobile Agents in Healthcare -- Fuzzy Expert Systems in Medical Domain -- Expert Systems for Bioinformatics -- Virtual Reality and Augmented Realty support systems -- Brain Computer Interface for rehabilitation -- Robotics in healthcare -- Part –II Machine Learning in Healthcare -- Rule based Learning in Healthcare -- Classification and Regression in Healthcare -- Clustering algorithms -- Deep Learning in Healthcare -- Big Data -- Nature Inspired Algorithms -- Part III Case Studies -- Corona Virus Study -- Dementia Prediction -- Brain Injury Data Analysis -- Pesticide data Analysis for cancer detection -- Conclusion.
Sommario/riassunto	This book fosters a scientific debate for sophisticated approaches and cognitive technologies (such as deep learning, machine learning and advanced analytics) for enhanced healthcare services in light of the

tremendous scope in the future of intelligent systems for healthcare. The authors discuss the proliferation of huge data sources (e.g. genomes, electronic health records (EHRs), mobile diagnostics, and wearable devices) and breakthroughs in artificial intelligence applications, which have unlocked the doors for diagnosing and treating multitudes of rare diseases. The contributors show how the widespread adoption of intelligent health based systems could help overcome challenges, such as shortages of staff and supplies, accessibility barriers, lack of awareness on certain health issues, identification of patient needs, and early detection and diagnosis of illnesses. This book is a small yet significant step towards exploring recent advances, disseminating state-of-the-art techniquesand deploying novel technologies in intelligent healthcare services and applications. Describes the advances of computing methodologies for life and medical science data; Presents applications of artificial intelligence in healthcare along with case studies and datasets; Provides an ideal reference for medical imaging researchers, industry scientists and engineers, advanced undergraduate and graduate students, and clinicians.