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Nota di contenuto	Introduction -- Section-1: Fundamentals -- Introduction to Technologies for Smart healthcare -- Drivers and inhibitors of AI in Smart Healthcare -- Current scenario of healthcare compared with smart healthcare -- Section-2: Technologies for Smart healthcare -- Big data analytics in healthcare -- Deep Learning/ Machine learning based diagnostic model for personalized healthcare -- Disease diagnosis and treatment using AI -- AI in medical devices: development and usage, challenges and future frontiers -- AI and drug discovery -- Predictive modelling for diseases and pandemics -- Robotics and AI -- IoT/ IoE based architecture for healthcare -- Advances in M-Health and E-Health -- Emerging trends, paradigms and technologies in smart

healthcare -- Section- 3: Challenges and solutions -- Security and Privacy of medical Data/ electronic health records -- Ethical and legal implications of AI driven healthcare -- Strategies and policies as solutions to the existing challenges -- Section 4: Practical aspect -- Case study on Covid-19 -- Conclusion.

Sommario/riassunto

This book provides information on interdependencies of medicine and telecommunications engineering and how the two must rely on each other to effectively function in this era. The book discusses new techniques for medical service improvisation such as clear-cut views on medical technologies. The authors provide chapters on communication essentiality in healthcare, processing of medical amenities using medical images, the importance of data and information technology in medicine, and machine learning and artificial intelligence in healthcare. Authors include researchers, academics, and professionals in the field. Provides insight into communication technologies that govern the current healthcare sector; Includes a comprehensive introduction of artificial intelligence in healthcare; Discusses various machine learning algorithms applied in the field of medicine.
