1.	Record Nr.	UNINA9910495219203321
	Titolo	The fusion of internet of things, artificial intelligence, and cloud computing in health care / / Patrick Siarry [and four others], editors
	Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
	ISBN	3-030-75220-8
	Edizione	[1st ed. 2021.]
	Descrizione fisica	1 online resource (VIII, 268 p. 180 illus., 115 illus. in color.)
	Collana	Internet of Things, Technology, Communications and Computing, , 2199-1081
	Disciplina	610.28563
	Soggetti	Artificial intelligence - Medical applications Cloud computing
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Introduction -- Remote Patient Monitoring Using IoT, Cloud Computing and AI -- The Internet of M-Health Things (m-IoT) -- Healthcare Data Storage Options Using Cloud -- Cloud-based telemedicine ecosystem and adoption of AI -- The benefits and risks of Integrating IoT, AI in cloud services for healthcare -- Pattern Imaging Analytics using Artificial Intelligence techniques -- Identifying Diseases and Diagnosis using Artificial Intelligence -- Robotic Surgery -- Personalized Treatment with the help of IoT Artificial Intelligence and cloud -- Predicting Epidemic Outbreaks using IoT Artificial Intelligence and Cloud -- Crowd sourced Data Collection -- Maintaining Healthcare Records using Cloud storage -- Privacy and Security issues in health care based IoT -- IoT Healthcare Applications -- Applications of AI, IoT and Cloud computing in battling COVID-19 -- Intelligent Health Informatics for Handling the COVID-19 Situation -- Conclusion.
	Sommario/riassunto	This book reviews the convergence technologies like cloud computing, artificial intelligence (AI) and Internet of Things (IoT) in healthcare and how they can help all stakeholders in the healthcare sector. The book is a proficient guide on the relationship between AI, IoT and healthcare and gives examples into how IoT is changing all aspects of the healthcare industry. Topics include remote patient monitoring, the telemedicine ecosystem, pattern imaging analytics using AI, disease

identification and diagnosis using AI, robotic surgery, prediction of epidemic outbreaks, and more. The contributors include applications and case studies across all areas of computational intelligence in healthcare data. The authors also include workflow in IoT-enabled healthcare technologies and explore privacy and security issues in healthcare-based IoT. Covers concepts of artificial intelligence and applications of computational intelligence, IoT and cloud computing in medical domain; Discusses how the fusion of Internet of Things, AI and cloud computing help in diagnosis, prediction, and storage of medical records in health care domain; Includes case studies throughout on applications of computational intelligence in healthcare data. .