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Record Nr.	UNINA9910485009703321
Titolo	Emerging technologies for battling Covid-19 : applications and innovations / / Fadi Al-Turjman, Ajantha Devi, Anand Nayyar, editors
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-60039-4
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XIV, 359 p. 210 illus., 190 illus. in color.)
Collana	Studies in Systems, Decision and Control, , 2198-4182 ; ; 324
Disciplina	610.285
Soggetti	Medical informatics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Drone-based social distancing, sanitizing, inspection, monitoring and control room for covid-19 -- COVID 19 Prediction Models Using Machine Learning Techniques -- Perspective to Definition of Data Visualization: A mapping study and discussion on Coronavirus dataset -- Blockchain based framework to maintain trust among various stakeholders involved in COVID -- Role of Big Data in COVID-19 Pandemic: Opportunities, Challenges and Future Avenues -- Artificial intelligence techniques for resources management during covid-19 -- Applications Of Artificial Intelligence And Internet Of Things For Detection And Future Directions To Fight Against Covid-19 -- Robotics and drone-based solutions for covid 19 using AI and IOT -- A novel framework for Wearable device-based identification, monitoring, collaborating and crowdsourcing for covid -19 -- Effectiveness of Big Data in Early Prediction and Measures for COVID-19 using Data Science -- COVID-19: Creating Paradigm Shift in Education System -- Dynamic Models and Control Techniques for Drone Delivery of Medications and Other Healthcare Items in COVID-19 Hotspots -- Disaster management techniques using AI due to COVID-19 -- COVID-19 Impact on Education Systems -- Mobile Technology Solutions for COVID-19 -- Predictive Analysis of COVID 19 transmission-Mathematical modelling study -- Analyzing the effects of covid 19 using big data analysis -- Intrinsic and Extrinsic Motivation for Online Teaching in COVID-19: Applications, Issues and Solution --

Conclusion.

Sommario/riassunto	The book presents recent trends and solutions to help healthcare sectors and medical staff protect themselves and others and limit the spread of the COVID-19. The book also presents the problems and challenges researchers and academics face in tackling this monumental task. Topics include: Unmanned Aerial Vehicle (UAV) or drones that can be used to detect infected people in different areas; robots used in fighting the COVID-19 by protecting workers and staff dealing with infected people; blockchain technology that secures sensitive transactions in strict confidentiality. With contributions from experts from around the world, this book aims to help those creating and honing technology to help with this global threat. Presents solutions to help healthcare sectors and medical staff protect themselves and patients and limit the spread of the COVID-19; Includes technologies that can be used to help fight COVID-19 such as UAV, deep learning, robotics, blockchain, and big data; Provides researchers, academics, professionals, and students from broad sectors with tools they need to help fight current and future viruses.