1. Record Nr. UNINA9910733707903321

Big data analytics and artificial intelligence against COVID-19: Titolo

innovation vision and approach / / Aboul-Ella Hassanien, Nilanjan Dev.

Sally Elghamrawy, editors

Cham, Switzerland: ,: Springer, , [2020] Pubbl/distr/stampa

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**ISBN** 3-030-55258-6

Edizione [1st ed. 2020.]

Descrizione fisica 1 online resource (XI, 307 p. 169 illus., 130 illus. in color.)

Collana Studies in Big Data;; Volume 78

Disciplina 610.28563

Soggetti Artificial intelligence - Medical applications

Big data

Lingua di pubblicazione Inglese

**Formato** Materiale a stampa

Livello bibliografico Monografia

Nota di bibliografia Includes bibliographical references.

Nota di contenuto Coronavirus Spreading Forecasts based on Susceptible-Infectious-

> Recovered and Linear Regression Model -- Virus Graph and COVID-19 Pandemic: A Graph Theory Approach -- Nonparametric Analysis of Tracking Data in the Context of COVID-19 Pandemic -- Visualization and prediction of trends of Covid-19 pandemic during early outbreak in India using DNN and SVR -- The Detection of COVID-19 in CT Medical Images: A Deep Learning Approach -- COVID-19 Data Analysis and Innovative approach in Prediction of Cases -- Detection of COVID-19 using Chest Radiographs with Intelligent Deployment Architecture -- COVID-19 Diagnostics from the Chest X-Ray Image Using Corner-Based Weber Local Descriptor -- Why are Generative Adversarial Networks Vital for Deep Neural Networks? A Case Study on COVID-19 Chest X-Ray Images -- Artificial intelligence against COVID-19: A meta-analysis of current research -- Insights of Artificial Intelligence to Stop Spread of COVID-19 -- Al based Covid19 analysis-A pragmatic approach -- Artificial Intelligence and Psychosocial Support during the COVID-19 Outbreak -- Role of The Accurate Detection of Core Body Temperature in The Early Detection of Coronavirus -- The effect Coronavirus Pendamic on Education into Electronic Multi-Modal Smart Data analytics for Coronavirus Disease (COVID-19) Diagnosis --

Education -- An H2O's Deep Learning-inspired model based on Big

## Sommario/riassunto

Coronavirus (COVID-19) Classification using Deep Features Fusion and Ranking Technique -- Stacking Deep Learning for Early COVID-19 Vision Diagnosis.

This book includes research articles and expository papers on the applications of artificial intelligence and big data analytics to battle the pandemic. In the context of COVID-19, this book focuses on how big data analytic and artificial intelligence help fight COVID-19. The book is divided into four parts. The first part discusses the forecasting and visualization of the COVID-19 data. The second part describes applications of artificial intelligence in the COVID-19 diagnosis of chest X-Ray imaging. The third part discusses the insights of artificial intelligence to stop spread of COVID-19, while the last part presents deep learning and big data analytics which help fight the COVID-19.