1. Record Nr. UNINA9910450372703321

Titolo	Environmental change, climate, and health [[electronic resource]] : issues and research methods / / edited by P. Martens, A.J. McMichael
Pubbl/distr/stampa	Cambridge, UK ; ; New York, : Cambridge University Press, c2002
ISBN	1-107-12931-1 0-511-06697-X 1-280-41800-1 9786610418008 0-511-17833-6 1-139-14652-1 0-511-06066-1 0-511-32265-8 0-511-53598-8 0-511-06910-3
Descrizione fisica	1 online resource (362 p.)
Altri autori (Persone)	MartensWillem Jozef Meine <1968-> McMichaelA. J (Anthony J.)
Disciplina	616.988
Soggetti	Environmental health Environmentally induced diseases Social medicine Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Half-title; Title; Copyright; Contents; Contributors; Foreword; 1 Global environmental changes: anticipating and assessing risks to health; 2 Historical connections between climate, medical thought and human health; 3 The contribution of global environmental factors to ill-health; 4 Surprise, nonlinearity and complex behaviour; 5 Epidemiological and impacts assessment methods; 6 Retrospective studies: analogue approaches to describing climate variability and health; 7 Detecting the infectious disease consequences of climate change and extreme weather events

	8 Integrated Assessment modelling of human health impacts9 Remote sensing, GIS and spatial statistics: powerful tools for landscape epidemiology; 10 Monitoring the health impacts of global climate change; 11 Epidemiology, environmental health and global change; 12 Dealing with scientific uncertainties; Index
Sommario/riassunto	The advent of global environmental change, with all its uncertainties and emphasis on long term prediction, brings new challenges and tasks for scientists, the public and policy makers. This book addresses the concepts and methods needed to analyse and understand this complex issue.

2. Record Nr. UNISA996464404503316

Titolo	Advances in Artificial Intelligence, Computation, and Data Science : For Medicine and Life Science / / edited by Tuan D. Pham, Hong Yan, Muhammad W. Ashraf, Folke Sjöberg
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-69951-X
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (373 pages)
Collana	Computational Biology, , 2662-2432 ; ; 31
Disciplina	610.285
Soggetti	Bioinformatics Artificial intelligence Artificial intelligence - Data processing Computer science Biomathematics Image processing - Digital techniques Computer vision Computational and Systems Biology Artificial Intelligence Data Science Theory of Computation Mathematical and Computational Biology Computer Imaging, Vision, Pattern Recognition and Graphics Intel·ligència artificial en medicina Investigació mèdica Ciències de la vida Processament de dades Llibres electrònics

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part I: Review of Recent Developments in AI, Computational Models for Complex Data Analysis, and Data Science -- 1. Recent Developments in AI -- 2. Recent Developments in Computational Models for Data Analysis -- 3. Recent Developments in Data Science -- Part II: Applications in Medicine and Physiology -- 4. Cancer -- 5. Neuroscience -- 6. Cardiology -- 7. Critical Care -- 8. Health Care -- 9. Digital Pathology -- Part III: Applications in Life Science -- 10. Systems Biology -- 11. Cell Biology -- 12. Biochemistry -- 13. Chemometrics -- 14. Food Technology.
Sommario/riassunto	Artificial intelligence (AI) has become pervasive in most areas of research and applications. While computation can significantly reduce mental efforts for complex problem solving, effective computer algorithms allow continuous improvement of AI tools to handle complexity—in both time and memory requirements—for machine learning in large datasets. Meanwhile, data science is an evolving scientific discipline that strives to overcome the hindrance of traditional skills that are too limited to enable scientific discovery when leveraging research outcomes. Solutions to many problems in medicine and life science, which cannot be answered by these conventional approaches, are urgently needed for society. This edited book attempts to report recent advances in the complementary domains of AI, computation, and data science with applications in medicine and life science. The benefits to the reader are manifold as researchers from similar or different fields can be aware of advanced developments and novel applications that can be useful for either immediate implementations or future scientific pursuit. Features: Considers recent advances in AI, computation, and data science for solving complex problems in medicine, physiology, biology, chemistry, and biochemistry Provides recent developments in three evolving key areas and their complementary combinations: AI, computation, and data science Reports on applications in medicine and physiology, including cancer, neuroscience, and digital pathology Examines applications in life science, including systems biology, biochemistry, and even food technology This unique book, representing research from a team of international contributors, has not only real utility in academia for those in the medical and life sciences communities, but also a much wider readership from industry, science, and other areas of technology and education. Tuan D. Pham is professor and founding director of the Center for Artificial Intelligence at Prince Mohammad Bin Fahd University, Saudi Arabia. Hong Yan is currently chair professor of computer engineering at City University of Hong Kong. Dr. Muhammad Waqar Ashraf is professor and dean of College of Sciences & Human Studies at Prince Mohammad Bin Fahd University. Folke Sjöberg is professor of burn surgery and critical care at Linköping University, Sweden, and director of the Burn Center at the Linköping University Hospital.