1. **Record Nr.** UNICAMPANIASUN0052977

   Autore Paolo Veronese

   Titolo Paolo Veronese / testo di Franca Zava Boccazzi

   Pubbl/distr/stampa Milano : Fabbri, 1964

   Descrizione fisica [4] c., XVI p. di tav. : ill. ; 36 cm.

   Lingua di pubblicazione Italiano

   Formato Materiale a stampa

   Livello bibliografico Monografia

2. **Record Nr.** UNINA9910492152303321

   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

   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. Chemo-metrics -- 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.