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Intelligent Applications of Bioinformatics A Practical Approach

Editors: Saikat Gochhait, PhD
Siddhartha Roy, PhD

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In Production
Pub Date: Forthcoming
December 2025
Hardback Price: \$200 US | £150 UK
Hard ISBN: 9781779641526
Pages: Est. 330pp w/index
Binding Type: Hardback / ebook
Notes: 11 color and 51 b/w illustrations

Providing a comprehensive perspective on the cutting-edge intelligent applications shaping the field of bioinformatics and healthcare, this volume explores the rapid advancements in technology and computing power that have significantly impacted various scientific fields, with bioinformatics being at the forefront of this revolution. This new volume, **Intelligent Applications of Bioinformatics and Healthcare: A Practical Approach**, investigates the latest innovations and their applications in biomedical sciences, healthcare, and beyond.

Discussing new technological trends in bioinformatics, the volume focuses on a practical approach to analyzing biological data. The book looks at how 3D printing is revolutionizing the field of biomedical sciences and how additive manufacturing is transforming medical research and treatment. The impact of artificial intelligence in healthcare is explored, including bioinformatics as a promising tool for cardiovascular diseases, for the early detection and treatment of neurodegenerative diseases, using bioinformatics tools targeting Sars-Cov-2, for investigating the sperm transcriptome of male infertility, analyzing the of family gene expression for cancer classification, and more. The volume discusses data management in the healthcare sector, remote monitoring of palliative care, and more.

For researchers, practitioners, and students who want to know how intelligent technology interacts dynamically with bioinformatics and issues in healthcare, this new volume, **Intelligent Applications of Bioinformatics: A Practical Approach**, presents innovative research along with practical applications toward improved outcomes of healthcare services.

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