



**bioengineering**



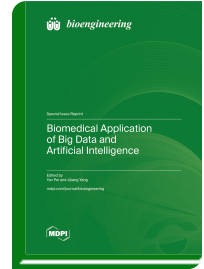
*Special Issue Reprint*

## **Biomedical Application of Big Data and Artificial Intelligence**

[www.mdpi.com/books/reprint/10641](http://www.mdpi.com/books/reprint/10641)

Edited by  
Yan Pei  
Jijiang Yang

ISBN 978-3-7258-3569-0 (Hardback)  
ISBN 978-3-7258-3570-6 (PDF)



This Special Issue, Biomedical Applications of Big Data and Artificial Intelligence, explores the transformative role of AI and big data in biomedical research and healthcare. This volume features 14 rigorously reviewed studies covering topics such as disease diagnosis, medical image processing, survival prediction, cognitive load assessment, and medical knowledge extraction. By integrating AI-driven methodologies with big data analytics, these studies aim to enhance diagnostic accuracy, medical efficiency, and personalized treatment planning.

Bridging the gap between AI-driven analytics and real-world medical applications, this reprint provides researchers, practitioners, and healthcare professionals with cutting-edge insights and methodologies. By collating studies exploring research areas including deep learning models for pathology segmentation, wearable ECG systems, or graph-based neural networks for patient monitoring, this collection presents a comprehensive overview of the latest advancements in AI-powered biomedical solutions. It is an essential resource for those interested in the intersection of data science, AI, and medicine, paving the way for future breakthroughs in healthcare technology.



Order Your Print Copy  
You can order print copies at  
[www.mdpi.com/books/reprint/10641](http://www.mdpi.com/books/reprint/10641)

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



## Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



## Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



## High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



## High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



## Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.