



*mathematics*



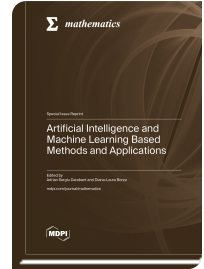
*Special Issue Reprint*

## **Artificial Intelligence and Machine Learning Based Methods and Applications**

[www.mdpi.com/books/reprint/9330](http://www.mdpi.com/books/reprint/9330)

Edited by  
Adrian Sergiu Darabant  
Diana-Laura Borza

ISBN 978-3-7258-1067-3 (Hardback)  
ISBN 978-3-7258-1068-0 (PDF)



The chapters of this reprint cover a wide range of topics related to the theoretical aspects of artificial intelligence (AI) and machine learning (ML), as well as their practical applications. The theoretical aspects presented in this reprint are related to model compression, interpretable AI, effective augmentation strategies, time series analysis, etc., but most of the works are applicative and multidisciplinary. The applications include but are not limited to, medical image processing, natural language processing, time series analysis, diffusion model-based music generation, autoencoder applications, and adversarial learning, to name a few. By compiling such a diverse set of articles, the reprint aims to serve as a resource for researchers and AI enthusiasts and to offer them insights into the latest advancements and diverse applications of AI and ML. This reprint includes 26 articles accepted and published in the Special Issue “Artificial Intelligence and Machine Learning Based Methods and Applications, 2023” of the MDPI “*Mathematics*” journal.



Order Your Print Copy  
You can order print copies at  
[www.mdpi.com/books/reprint/9330](http://www.mdpi.com/books/reprint/9330)

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.