



applied sciences



Special Issue Reprint

The Application of Machine Learning in Geotechnical Engineering

www.mdpi.com/books/reprint/10026

Edited by
Wei Gao

ISBN 978-3-7258-2247-8 (Hardback)
ISBN 978-3-7258-2248-5 (PDF)



The purpose of the following reprint is to update readers on the latest applications of machine learning methods in the field of geotechnical engineering, from planning and design to construction. Because the objects of geotechnical engineering are natural geological bodies, whose mechanical properties and internal structure are very complex, most geotechnical engineering problems involve the coupling of multiple fields and multiple phases. Therefore, traditional methods (e.g., theoretical methods, numerical methods, and experimental methods) cannot solve geotechnical engineering problems well. The development of artificial intelligence has supported better solutions to geotechnical engineering problems, and machine learning methods have been applied widely, currently representing a hot research topic. As a part of this reprint, leading experts in the field share their insights, research findings, and visions for the future. Together, we embark on a journey to unlock the full potential of machine learning method applications in the field of geotechnical engineering.



Order Your Print Copy
You can order print copies at
www.mdpi.com/books/reprint/10026

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.