

Special Issue

Artificial Intelligence and Data Mining in Geotechnical Engineering: Innovative Approaches and Applications

Message from the Guest Editors

Artificial intelligence and data mining are essential tools for effectively tackling geotechnical challenges, with a focus on reducing environmental impacts and promoting sustainable solutions. Examples of such tools include the utilization of smart geomaterials, the implementation of intelligent construction and monitoring techniques, and the integration of artificial intelligence strategies. In this Special Issue, we invite the submission of exceptional original research articles and insightful review papers. We welcome papers with a wide spectrum of areas, including but not limited to the following: road and railway infrastructure, airport runways, tunneling endeavors, deep excavations, water supply systems, sewer networks, electrical grids, telecommunications infrastructure, slope stability analysis, soil enhancement techniques, asset management strategies, and monitoring and intelligent construction methodologies. Such contributions will not only expand our understanding of information technologies within geotechnical engineering but also shed light on the potential cross-applicability of techniques and methods, fostering interdisciplinary insights.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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