

Special Issue

Artificial Intelligence in Mining, Mineral and Material Processing

Message from the Guest Editors

This Special Issue explores the transformative impact and potential of artificial intelligence (AI) in mining, mineral, and material processing industries. As the demand for sustainable and efficient resource utilization grows, AI is reshaping how we explore, extract, and process materials. This Special Issue encompasses innovative AI applications, including machine learning, deep learning, data analytics, the Internet of Things (IoT) and quantum computing, that enhance decision making, efficiency, safety, and sustainability in these critical sectors. Researchers and practitioners are invited to present cutting-edge innovative approaches, case studies, and reviews that demonstrate AI's role in revolutionizing mining and processing industries. Recommended areas of focus include, but are not limited to, the following: **Automation and Optimization; Data Integration and Analysis; Environmental Impact and Safety; Innovative Processing Technologies**

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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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