Special Issue

Technology for Automation and Intelligent Mining

Message from the Guest Editors

With the rapid advancement in digitalization and intelligent technologies, the mining industry is undergoing a profound transformation toward automation and intelligence. Intelligent mining leverages advanced sensing technologies, intelligent control systems, robotics, communication, and artificial intelligence to enable autonomous operations, real-time decision-making, and improved safety. This Special Issue aims to showcase the latest research and developments specifically designed for underground mining, including automation systems, unmanned mining equipment, real-time environmental perception, intelligent backfill, and collaborative intelligent systems. Particular emphasis will be placed on the application of these technologies in complex and dynamic underground mine environments to promote efficient, safe, and sustainable underground mining practices. We welcome original research articles, innovative technologies, and practical applications that contribute to shaping the future of intelligent mining. We look forward to your submissions.

Guest Editors

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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.

Editor-in-Chief

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