Special Issue

Intelligent Mining and Green Mining of Coal Mines

Message from the Guest Editor

The coordination of mining and excavation is a key issue of concern for coal production, but the development of excavation technology lags behind the generation of mining technology and cannot meet the needs of modern, large-scale mine production. The existing excavation equipment cannot meet the requirements of high reliability, high adaptability, high automation, and intelligence. Therefore, this Special Issue aims to showcase new ideas and experimental results in the field of intelligent fast excavation theory and key technology equipment, from theory to practical application. Related fields include (but are not limited to): the surrounding rock control theory of intelligent rapid excavation systems in coal tunnels, the correlation theory of airborne advanced drilling response and perception while drilling, intelligent excavation equipment positioning and navigation based on multisource information, equipment health perception and risk warning based on big data, and other topics. This Special Issue will publish high-quality original research papers in the overlapping fields mentioned above.

Guest Editor

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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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