

Special Issue

Safety Monitoring and Intelligent Diagnosis of Mining Processes

Message from the Guest Editors

Mining processes involve complex operations like blasting, excavation, and transportation, which often entail potential safety risks such as gas leakage, equipment failure, and slope instability. Traditional monitoring methods have limitations in terms of the real-time and accurate detection of these risks. Safety monitoring and intelligent diagnosis of mining processes utilize advanced sensors to collect real-time data on parameters such as gas concentration, vibration, and temperature. Then, intelligent algorithms analyze these data to enable early warning of safety hazards and accurate diagnosis of equipment faults. This approach not only enhances the safety of mining operations but also reduces downtime and improves efficiency. Its development and application have become key directions for the modernization of the mining industry, holding significant implications for the sustainable development of the sector. This Special Issue is open for the submission of papers focused on subject areas related to Safety Monitoring and Intelligent Diagnosis of Mining Processes. The listed keywords suggest just a few topics of interest, though we welcome many other possibilities.

Guest Editors

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