Special Issue

New Frontiers in IOT and Computational Intelligence Applications in the Mining Industry, Volume II

Message from the Guest Editors

In our first volume, we showed that computational intelligence (machine learning, deep learning, genetic algorithms, etc.) is a mature and constantly evolving force within mining and mineral processing systems. However, gauging and assessing this evolution is an important task to properly evaluate progress and disseminate knowledge to a wider audience. The minerals industry is large and diverse. Companies of all sizes are attempting to efficiently extract wealth from natural resources. This process is enabled by technology of various kinds. Industrial internet of things (IOT) applications are growing the market of technology by reducing costs and, thus, expanding scale. These systems continue to close the tracking gaps of operations and improve the scalability of computational intelligence (CI) and site optimization. These new data acquisition points will continue to push the need for enhanced CI tools to handle and analyze these new data streams. Therefore, in this Special Issue, we would like to continue to compile the state of the art in real-world mining industry IOT applications and CI. Papers can be on any aspect of the mining industry.

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About the Journal

Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

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