

Special Issue

Advances in Computational Intelligence Applications in the Mining Industry

Message from the Guest Editors

Computational intelligence (machine learning, deep learning, genetic algorithms, etc.) has really taken off in the mining industry. It is not a new field for mining industry applications. Until now, however, applications were mostly academic. The results of computational intelligence (CI) never made it back to mine sites as there was no real interest. However, this is starting to change. Some mining companies now have analytics teams that apply CI to operational data. They are developing a deeper understanding of the challenges of CI, such as requiring major data structure and maintaining sensor quality. Therefore, in this issue, we would like to compile the state of the art in real-world mining industry applications of CI. What is being applied at mine sites? What real-world tools are being developed for mining industry applications? What is working? Why do you think it is working? What is not working? What are the challenges? Papers can be on any aspect of the mining industry. They must, however, be about the CI applications. They must describe the application, benefits being seen, and/or the challenges to their deployment or development.

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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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