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Innovative Solutions for Measurements, Modelling and Control in Mineral Processing

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Deadline for manuscript submissions:
closed (17 September 2023)

Message from the Guest Editors

The constantly growing presence of exponential technologies in everyday life, new solutions for green energy production, and the electric vehicle market expanding in the unprecedented rate ... Innovative solutions may also result in lower waste production, which in turn influences the environment.

The above objectives can be obtained by applying novel and more effective processing technologies, devices, and circuits but can also be achieved with operation optimization using dedicated measurements, modeling, and control techniques. This Special Issue of *Minerals* is dedicated to the latter and relates to Industry 4.0 solutions for mineral processing. Therefore, the Editors especially welcome papers describing research on indirect measurements, soft-sensing techniques, vision systems, IoT solutions, edge, fog and cloud computing, signal processing, static and dynamic modeling, digital twins, advanced control, and optimization techniques applied in any stage of the mineral processing operations. Industrial solutions are mostly welcomed; however, laboratory results and simulations involving industrial data are appreciated as well.

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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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