

## Call for Papers

### Special Issue

on

## Process Control Solutions for Mining, Mineral and Metal Processing

to be published in the  
**Journal of Process Control**

Deadline for manuscript submission: November 30, 2022



Journal of Process Control (ISSN: 0959-1524) is an international peer-reviewed scientific journal monthly published by Elsevier at <https://www.sciencedirect.com/journal/journal-of-process-control>. It is a journal of IFAC, the International Federation of Automatic Control, and it is indexed in SCI/SCIE, Web of Science, Scopus and others.

Dear Colleagues,

The mining, mineral, and metals industry is a typical field of application for **advanced process control solutions**. This industry is confronted with **multiple challenges** like complex production processes and facilities, increased quality and performance requirements, demand for higher flexibility, new regulations, tighter product specifications, the need for cost reductions, the need to reduce the consumption of energy and other resources, geographic dependencies, as well as the requirement to reduce emissions and other environmental impacts. Advanced process control is an essential tool to master these challenges, a key enabling technology, and a value driver for the mining, mineral and metals industry. During the last decade, the control engineering community contributed to and witnessed enormous scientific progress, countless exciting developments, and fascinating practical applications of process control in the mining, mineral and metals industry. This concerns the hardware (sensors, actuators, communication, integration), the software, domain knowledge (technology, modelling), and specialized process control methods alike.

The Special Issue on Process Control Solutions for Mining, Mineral and Metal Processing to be published in the Journal of Process Control offers an excellent platform to publish your latest control, optimization and automation solutions for applications in the mining, mineral and metals industry. The special issue addresses **all aspects of systems theory, control engineering, data science, automation, and digital technologies for mining, mineral and metal processing applications**. This includes, but is not limited to, control-oriented modelling, system design, system identification, state estimation, control, optimization, soft sensing, remote sensing and operation, process and condition monitoring, fault detection and diagnosis, safety, supervisory control, data-driven analysis and control methods, artificial intelligence, instrumentation and measurement technology, information and communication technology, robotics and mechatronics, production planning and logistics in the fields of mining and processing of both ferrous and non-ferrous minerals and metals. The considered systems may range from laboratory processes, to pilot operations and full-scale industrial plants. The **applications may cover all**

processing steps along the whole value chain like ore extraction, mining, transportation, production, heat treatment, casting, forming, reforming, shaping, recycling, etc. Environmental aspects, emissions, decarbonization, waste treatment, and the consumption of energy and resources are also of interest.

You are very welcome to submit your work for publication in this special issue!

Andreas STEINBOECK, Derik LE ROUX, Jocelyn BOUCHARD, Éric POULIN  
*Guest Editors*

### **Manuscript Submission Instructions**

Submit your manuscript online at <https://www.editorialmanager.com/jprocont/default1.aspx> (requires registration) before the deadline **November 30, 2022**. On the *Article Type Selection* page of the submission form (first page), you must select the special issue *VSI: Mining, Minerals & Metals* from the drop-down menu. After passing a pre-check, your submitted manuscripts will undergo an international single-blind peer-review process. If your article is accepted, it will be published immediately on the journal website and also on the special issue website hosted by <https://www.sciencedirect.com>. Submission and normal publication are free of charge. The article types *regular paper*, *brief paper*, *review paper*, and *tutorial paper* are welcome.

Your submitted manuscript must not have been published elsewhere and it must not be under consideration for publication elsewhere. An exception to this rule applies to conference papers previously accepted for or presented at IFAC-sponsored conferences given that the submitted manuscript contains a significantly extended version of the accepted conference paper and an additional scientific contribution. In any case, your submitted manuscript will undergo the normal rigorous peer-review process.

Before preparing and submitting your manuscript, please, read the guide for authors available at <https://www.elsevier.com/journals/journal-of-process-control/0959-1524/guide-for-authors>.

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