remote sensing

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Remote Sensing Solutions for Mapping Mining Environments

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Deadline for manuscript submissions:
closed (1 January 2023)

Message from the Guest Editors

The Raw Material (RM) and mining industrial sectors rely on various systems of infrastructures for efficient and productive operations such as plants, buildings, gas and water pipes, etc. Such systems, normally located in harsh environments, need periodic inspection, maintenance and monitoring. In the last years, the RM industrial sector is slowly adopting innovative techniques to improve productivity from existing assets and infrastructure, leveraging on continuous innovations in remote sensing methods, robotics, data processing methods and Artificial Intelligence. This Special Issue, which stems from the EIT-RM project AMICOS – Autonomous Monitoring and Control System for Mining Plants (https://amicos.fbk.eu/), welcomes but is not limited to contributions in the following topics:

Remote sensing in mining areas;
Tailing dams and open pit mines monitoring;
Underground 3D mapping;
Simultaneous localization and mapping (SLAM);
UAV/UGV and robotics data in the mining field;
Data fusion;
Multi-temporal data processing;
Decision Support Systems;
BIM in the mining sector;
Spatial data analysis, modeling and visualisation;
Spatial analyses;
Case studies in mining.

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Special Issue

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Message from the Editorial Board

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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