Special Issue

New Advances in Remote Sensing Techniques Applied in Surface and Underground Mine Operations

Message from the Guest Editor

For many years, collecting data in mine operations was a highly manual process, providing data with a low temporal and spatial resolution that hindered timely and efficient decision making. Remote sensing plays a crucial role in modern mine operations by providing valuable information regarding the Earth's surface without requiring direct physical contact. Satellites, aircraft, radars, drones, and terrestrial instruments equipped with various sensors (e.g. LiDAR, Thermal, Hyperspectral) are employed to collect data from a distance. This Special Issue welcomes the submission of papers that address state-of-the-art approaches and applications of remote sensing in mineral exploration and target identification; geological, geotechnical and geometallurgical mapping; environmental monitoring (e.g., the extent of disturbances caused by mining operations, land reclamation and rehabilitation); pit slope stability; underground space monitoring and mapping; mineral mapping and grade estimation; mine infrastructure planning and monitoring (haul roads, tailings dams, and waste disposal sites); and safety and security (e.g., identifying potential safety hazards and security breaches).

Guest Editor

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Message from the Editor-in-Chief

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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