



Mining

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Special Issue Reprint

Mine Automation and New Technologies

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This Reprint brings together a curated collection of research and review articles addressing recent advances in mine automation and emerging technologies that are reshaping modern mining operations. The contributions cover key themes including artificial intelligence and machine learning applications, autonomous and collaborative mining systems, real-time data acquisition and monitoring, edge and sensor technologies, operational optimisation, and intelligent decision-support frameworks. Together, the articles highlight how digitalisation and automation can enhance safety by reducing human exposure to hazardous environments, improve operational efficiency through data-driven optimisation, and support more sustainable resource extraction. By presenting both methodological developments and practical case studies, this Reprint provides researchers, practitioners, and industry stakeholders with an integrated perspective on current technological capabilities and future directions for automated and intelligent mining systems.

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