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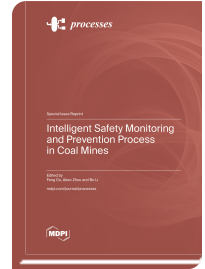
Special Issue Reprint

Intelligent Safety Monitoring and Prevention Process in Coal Mines

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This Special Issue collects research papers relating to advances in intelligent safety monitoring and prevention in coal mines. The content covers the safety technology research of coal mine disaster mechanism and risk identification, coal mine disaster multi-information intelligent early warning, coal mine disaster prevention mechanisms, and their intelligent prevention and control. The findings highlight the critical role of technology in protecting workers' lives and ensuring the sustainability of coal mine operations. Our aim is to explore how advanced technologies can effectively reduce risks, prevent accidents, and improve overall safety management in the coal mining industry. We are committed to improving the safety of coal mine operations by identifying and mitigating potential hazards through intelligent monitoring systems. Promoting the safe and efficient, green development, and clean and efficient utilization of coal resources is the only way for the development of the coal industry, and it is also one of the important guarantees for achieving the goal of carbon peak and carbon neutrality. In order to achieve the goal of the safe and efficient mining of coal resources, the intelligence levels of coal mines must be improved. We have deeply studied the intelligent monitoring, early warning, and prevention of coal mine disasters, and contributed our strength to realize the intelligent control of the whole process of mine safety risks and ensure coal mine energy security and green mining.

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