

MGMI – Western Region Artificial Intelligence in Mining (AIM 2024)

26th Feb 2024, Hotel Sofitel, Mumbai



Seminar on Artificial Intelligence in Mining

The mining industry is undergoing a significant transformation, propelled by the integration of Artificial Intelligence (AI) across its value chain from exploration, operations, maintenance, mineral processing and environment management. This transition marks a move from traditional methods to a technologically advanced approach. The mining industry is embracing a significant shift towards AI-driven exploration and operations across the supply chain. This transition is not just an incremental change but a fundamental revolution in how the industry operates.

The integration of AI in mining is transforming the industry in several ways. AI is reshaping the landscape of mineral exploration and has helped companies more easily locate minerals using high-performance technologies.

Data-driven mineral exploration and mining companies with AI focuses on computer vision image analysis for logging, modelling of mineral deposit, including its size, shape, grade, structure, and location. It enables faster and more efficient discovery processes, also reducing the environmental impact due to exploration activities culminating into significant cost savings.

The industry is rapidly embracing autonomous operations, marking a significant shift in how modern-day mining is conducted. The transition to automation is not just about improving efficiency but also about enhancing safety & sustainability in mining operations. AI plays a transformative role in systems that use data analytics and machine learning to maximize productivity & efficiency by accurately identifying, predicting and providing intelligent data-based solutions.

Looking ahead, the journey for the mining industry with AI integration is both promising and challenging. The future will likely see a deeper integration of AI in mining processes, further enhancing efficiency and safety. Technology is not just an emerging trend but a transformative force reshaping the landscape of mining operations globally.

AI's adoption in the mining industry demands for skills in data science and AI technologies. As the industry continues to evolve, the emphasis on developing a skilled, diverse, and technologically adept workforce will be paramount. This seminar will bring in speakers from related fields who will elaborate on the trends and activities in vogue and pathway to the future of Artificial Intelligence in Mining, which will go some way in upgrading the knowledge and skills of participants.

Program Schedule (Tentative)

Time	Program
9:30 – 10:00 AM	Registration & Networking
10:00 – 10:15 AM	Inaugural Session by Dr. Veera Reddy, Director (Technical), Coal India Ltd, Mr. A K Singh, Director (Technical), Western Coalfields Ltd and Mr. Thomas M Cherian, Managing Director, Essel Mining & Industries Limited and Vice President, MGMI
10:15 – 10:45 AM	Artificial Intelligence in Mining - <i>Mr. Manish Gupta, Aditya Birla Group CIO</i>
10:45 – 11:15 AM	Digitalization Trends in Global Mining: Practical Application of AI and ML in Mining Operations Challenges & Opportunities - <i>Dr. Siddhartha Agarwal, Asst Professor, IIT-ISM, Dhanbad</i>
11:15 – 11:45 AM	Tea Break
11:45 – 12:15 PM	Digital Transformation in Mining with Gen AI to maximize business Value - <i>Mr. Ranajit Sahu, Managing Director, Natural Resources (Mining & Metals) India Lead, Accenture</i>
12:15 – 12:45 PM	[Topic to be confirmed] - <i>Mr. Tycho Möncks, Managing Director & Partner, Industrial Goods Practice, Boston Consulting Group (BCG)</i>
12:45 – 1:15 PM	Artificial Intelligence in Exploration <i>Dr. Anand Kumar Singh, Associate Professor – Department of Earth Science, IIT Bombay</i>
1:15 – 1:45 PM	[Topic to be confirmed] , <i>Mr. Pranav K, Partner – Digital Transformation, Grant Thornton</i>
1:45 – 2:00 PM	Concluding Remarks by Mr. Thomas M Cherian, Managing Director, Essel Mining & Industries Limited and Vice President, MGMI

Sponsorship Opportunities

Category	Amount	Complementary Delegates	Branding Acknowledgement
Platinum	INR 10 Lacs	Ten	Onsite, social media & Other Promotional Activities
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INR 7,500 + 18% GST (Registration Link: <https://forms.office.com/r/XYBEvrJtHU>)

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The Mining Geological & Metallurgical Institute of India (MGMI) – Western Region. MGMI is one of the oldest professional Institutes of its kind in Asia having being founded in 1906. It has been organizing conferences and seminars on issues impacting the mineral sciences. MGMI is a unique, independent, non-profit organization and represents professionals of the mineral sector as a whole. It is manned by highly qualified and experienced mining engineers, geologists and metallurgists and energy experts. **Website:** <https://www.mgmiindia.in>

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