



DIGITAL TRANSFORMATION FORUM FOR THE STEEL INDUSTRY

15-17 MARCH 2021 | PITTSBURGH, PA., USA

Digital Transformation is a critical component for steel companies' future success — a broad concept with the potential to influence all aspects of the steelmaking process! We are seeking presenters for the second Digital Transformation Forum. The focus will be on two themes:

Steel industry applications with artificial intelligence (AI)

- Machine-learning applications in the steel industry
- AI use in preventive maintenance
- AI use in quality application (e.g., surface inspection)
- AI use in production decision support (e.g., detecting upcoming abnormal operation)
- AI theory and how it can help in challenging industrial applications (e.g., energy monitoring, emission control)
- AI and business analytics applications
- Cognitive intelligence applications (e.g., robotic process automation)
- How to scope and select AI use cases
- Any other AI novel use case in the steel industry (e.g., customer resource management)
- Challenges and lessons learned from implementing AI into a steel facility

Steel industry applications with other Industry 4.0 technology

- How to incorporate sensors (e.g., such as edge devices, new types of smarter sensors)
- Novel use case of robotics in the steel industry
- Industrial Internet of Things (IIoT) and novel use cases
- Challenges and lessons learned from integrating IIoT into a steel facility
- Advanced visual aid technologies and novel use cases
- Virtual training using augmented reality/virtual reality
- The use of digital twins for the steel industry (e.g., what is different from previous simulation technologies)
- Any other Industry 4.0 novel use cases in the steel industry (e.g., logistics)

We are looking for real-use case studies and learning outcomes and challenges. Presentations are to be informative in nature without commercialism.

The deadline for submission is 25 September 2020.
Visit [AIST.org/DT21CFP](https://www.aist.org/DT21CFP) for more information.