Session Program

20–22 May 2025

10th European Oxygen Steelmaking Conference - EOSC CTSI 2025

Industry 4.0: Automation, modelling and on-line process analyses

Wednesday 21 May

14:00

Industry 4.0: Automation, modelling and on-line process analyses
Session | **Location:** Room 2 - Maximilian | **Convener:** Björn Glaser

14:00–14:20
High-speed liquid steel analysis for improved control of primary steelmaking

Speaker
Mr Aravind Senan Vasanthasenan Reji

14:20–14:40
Decreasing the environmental impact of the electrical steel route through advanced modelling techniques

Speaker
Dr Lorenzo Vannini

14:40–15:00
Forging the Future: Advanced Automation in Converter Steelmaking for a Sustainable Twin Transition

Speaker
Mr Stefan Radner

15:00–15:20   Utilizing an AI counting system for shipping deformed steel bars

Speaker
Mr Ryuuji   Kawakatsu

15:20

15:50

Industry 4.0: Automation, modelling and on-line process analyses
Session | **Location:** Room 2 - Maximilian | **Convener:** Andreas Heinen

15:50–16:10
Data-driven predictions of castability in low-alloyed steels with the aid of ab-initio datasets

Speaker
Dr Sudhanshu Kuthe

16:10–16:30
Accelerating decarbonization in the steel industry through process design and optimization

Speaker
Mr Simao Fernandes Pereira

16:30–16:50
Characteristic analysis of mold level fluctuation in continuous casting Based on Wavelet Transform

Speaker
Prof. Heng Cui

16:50–17:10
Enhancing Molten Steel Temperature Prediction Using a Hybrid Approach: Machine Learning and Finite Volume Method

Speaker
Fatemeh Azizi

17:10