

Session Program

13-15 Oct 2026



ICRF 2026 - 5th International Conference on INGOT CASTING, ROLLING & FORGING

Numerical Simulation, AI & Digital Innovation **V**

Hotel Caesius Terme & SPA Resort - Bardolino - Verona
Via Peschiera, 3, 37011 Bardolino VR

Wednesday 14 October

16:10

Numerical Simulation, AI & Digital Innovation V

Session |**Location:** Hotel Caesius Thermae & Spa Resort, Lilium+Iris room, Via Peschiera, 3, 37011 Bardolino VR |**Convener:** Prof. Valentina Colla

16:10–16:30

A Combined Physics-Based and Artificial Intelligence Through-Process Modelling of Steel Production Path

Speaker

Božidar Šarler

16:30–16:50

A dynamic permeability model based on real-time local solidification time for macrosegregation modeling in alloy directional solidification

Speaker

Haoran Xu

16:50–17:10

Digital Twin-Based Simulation Chain for Rail Manufacturing: Roll Pass Design, Head Hardening, and Straightening

Speaker

Nikolay Biba

17:10–17:30

ESR simulation: prediction of quality and grain size for nickel based ingot

Speaker

Cristian Viscardi

17:30–17:50

Ingot uphill casting defect potential reasons and forecast by different approach and analysis.

Speaker

Dr Ferruccio Pastorino

17:50