

Session Program

13-15 Oct 2026



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

Numerical Simulation, AI & Digital Innovation II

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

Tuesday 13 October

16:10

Numerical Simulation, AI & Digital Innovation II

Session | **Location:** Hotel Caesius Thermae & Spa Resort, Gardenia room, Via Peschiera, 3, 37011 Bardolino VR |
Convener: Arianna Gotti

16:10–16:30

Numerical simulation of carbon macrosegregation in large steel ingots

Speaker

Anna Mantelli

16:30–16:50

Physics Based Modelling as an Enabler for Machine Learning Defect Prevention in Casting

Speaker

Orlando Di Pietro

16:50–17:10

Using AI models to mould design, predict segregation, porosity and CET zone in steel ingots

Speaker

Mr Ovidiu Bogdan

17:10–17:30

Development of Industrial Processing Models for Prediction of Micro-segregation in Advanced Fusion Steels

Speaker

Dr Mikhail Trull

17:30–17:50

Modeling Remelting and Solidification: An OpenFOAM-based Approach for ESR and VAR Processes

Speaker

Matteo Gregori

17:50