

9th International Conference on Modeling and Simulation of Metallurgical Processes in Steelmaking - STEELSIM2021

5 October 2021 - 7 October 2021

Virtual Conference

Scientific Programme

The 9th International Conference on Modeling and Simulation of Metallurgical Processes in Steelmaking (STEELSIM 2021) will offer a great opportunity for the experts in the field of numerical modelling and simulation, from both academic research area and ironmaking/steelmaking industry, to share their knowledge and new scientific/technical achievements, and to discuss the common challenges and potential pathways for future developments.

Liquid metals, flow mechanics

Ironmaking and blast furnace

Primary and secondary metallurgy of steelmaking

Refining of alloy steels

Solidification and castings (ingot and continuous casting)

Processing of special steels (ESR, VAR, etc.)

Electrochemistry in metals and slags

Electromagnetic processing in metallurgy

Application of refractories

Control of product defects (macrosegregation, nonmetallic inclusions, porosity, cracks, ect.)

Thermodynamics and phase transformation

Metal forming, rolling and thermo-mechanics

Microstructure and steel properties

Machine learning, big data and artificial intelligence