Poster 4

Investigating formability of future steel grades using rapid alloy prototyping
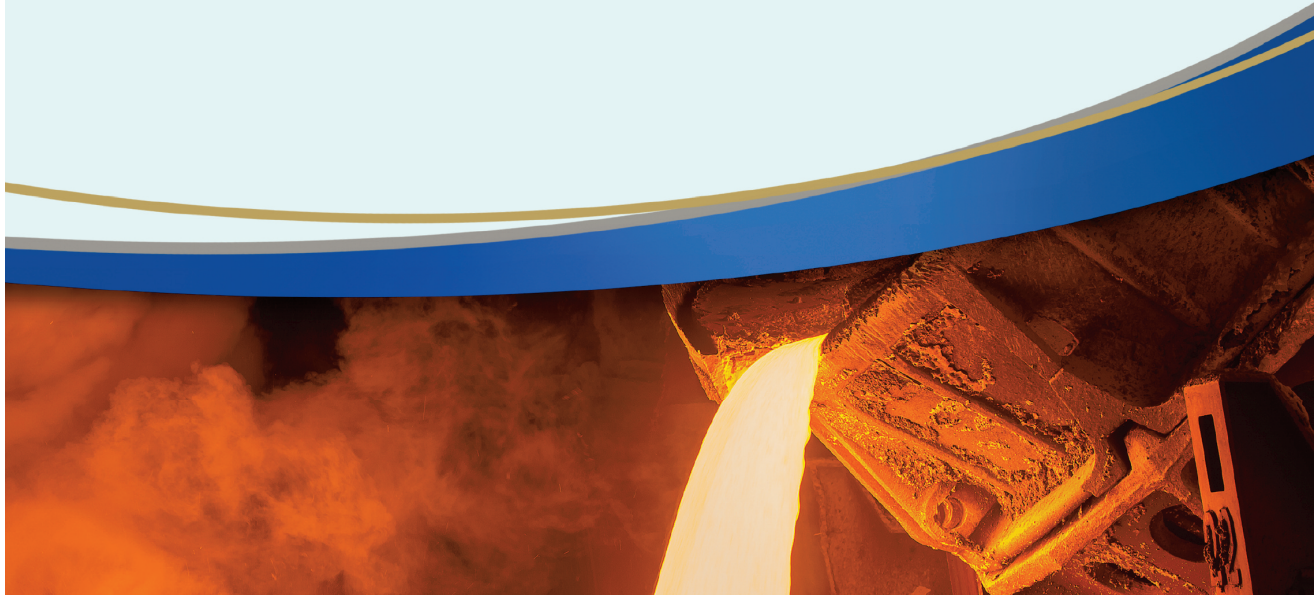
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ABSTRACT:
This research focuses on optimising a proprietary software to improve the efficiency of the runout table during the steel making process. This optimisation is achieved by inputting microstructural and temperature data collected from onsite measurements. A fully optimised mathematical model of the hot mill will allow for a comprehensive understanding of the thermomechanical aspects that need to be incorporated and therefore improve the manufacturing process by reducing wastage. The model is also being adapted to work at a laboratory scale. The optimisation of this model will benefit future steel making processes and save both energy and resources by reducing the amount of waste material. Optimised simulations of a full size and lab scale runout tables will assist in facilitating the scale up of novel alloys, produced using the Rapid Alloy Prototyping Process.

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