Special Issue

Digitalization and Advanced Software Support of the Steelmaking Industry

Message from the Guest Editors

Digitalization, advanced software support and optimized manufacturing practices are becoming a must in modern efficient industry. The areas of ironmaking and steelmaking are no exception since the increased market and environmental demands are higher than ever. High product quality standards, lower resource use, and the goals of reaching CO2 neutrality in the not-so-far future are encouraging researchers all over the world to devote extensive efforts to finding improved manufacturing practices and more efficient processes. This Special Issue addresses new approaches and solutions in the digitalization of the steelmaking industry, which aim to improve different steelmaking processes in terms of their control, efficiency, reliability, and environmental impact. Manuscripts dealing with the practical implementation of the proposed solutions, their practical validation, and the before/after evaluation of their efficiency for a given process are highly desirable.

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Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editor-in-Chief

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