

Special Issue

Production Planning and Scheduling in Steel Industry

Message from the Guest Editors

Production planning and scheduling is an area of research with a long-standing tradition that provides a variety of concepts and methods for solving practical problems. Technical experts in the steel industry and similar industries have high expertise in this area and contribute to production planning and control in the companies; however, they are often not familiar with today's planning concepts and methods, particularly with mathematical programming and the related decision-support tools. The aim of this Special Issue is to reach this audience and to demonstrate the contributions which operations researchers and production planning experts can make in solving their problems. We observe that today's challenges, from the increasing competitiveness of the markets to the pressure resulting from the carbon dioxide discussion, motivate companies to question their processes, including production planning and control. Therefore, we invite the submission of high-quality papers that demonstrate the applicability of quantitative decision-support methods for production planning and scheduling in the steel industry.

Guest Editors

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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.

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