



Advances in Numerical Analysis and Design of Rolling Processes

Guest Editor:

Prof. Dr. Youngseog Lee
Department of Mechanical
Engineering, Chung-Ang
University, Seoul 06974, Korea

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Message from the Guest Editor

Dear Colleagues,

Rolling is one of the fields of metal forming that has great advantages in the mass production of raw materials, such as steel, aluminum and copper. Along with the rapid development of computer performance since the 1970s, the numerical analysis capability of rolling has improved rapidly, and, as a result, many papers on rolling and rolling process design have been published. In the 1990s, precise numerical analysis models began to be developed and numerical analysis results applicable to the actual rolling mill (or process line) began to appear in the literature. However, this is possible only in a very restricted range, and there is a limit in applying it to the production site. Some successful results of numerical analysis applicable to the actual rolling mill were recently generated, and redesigning the rolling process has been shown to improve the quality of a product. Hence, in this Special Issue, we would like to publish mechanics-based or metallurgy-based numerical analysis papers that can be applied to the actual rolling mill and rolling process.

Prof. Dr. Youngseog Lee
Guest Editor





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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
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