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Innovative and Flexible Sheet Forming Technologies

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Deadline for manuscript submissions:
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Message from the Guest Editors

Innovative and flexible sheet forming processes that do not require time consuming set-up operations and/or do not impose the use of expensive conventional equipment have become a rather promising research topic. They enable the economical production of prototypes and small batch production and allow for the adaptation and modification of the product geometry with little effort.

Incremental sheet-forming (ISF) technology is an emerging sheet-forming process. Although substantial research has been performed in the past decades on ISF, a research gap still exists between experimental results towards industrial requirements.

This Special Issue warmly welcomes submissions, including regular research papers, short communications, and reviews, describing current research trends and future perspectives in innovative and flexible sheet/tube forming processes. Articles that focus on the deformation mechanism, analytical modeling, finite element modeling, process optimization, microstructure control, and industrial applications remain especially of interest.

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Message from the Editor-in-Chief

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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