



## Symmetry/Asymmetry in Metal Forming

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### Message from the Guest Editors

Dear Colleagues ,

Symmetry is a kind of beauty, and asymmetry is also a kind of beauty. Symmetry and asymmetry exist widely in natural science and engineering applications, and metal forming is no exception. Metal forming is the technology of producing metal artworks, which are widely used in the aerospace, automobile, construction, hardware industries, including for use in daily necessities, etc. In the metal forming process, there are many symmetry problems concerning material properties, boundary conditions, load loading, multi-field coupling, part structures, equipment, etc., which may directly affect the forming quality, cause defects of formed parts, or even fail to form. For example, material anisotropy, axisymmetric and non-axisymmetric parts, uneven deformation, straightening process, etc. The aim of the present Special Issue is, thus, to emphasize the phenomena of symmetry/asymmetry in metal forming. Manuscript types include original research papers, reviews, and letters.





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## Editor-in-Chief

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## Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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