Special Issue

Advances in Plastic Deformation Analysis and Process Design

Message from the Guest Editor

Plastic deformation is one of the processing fields that rapidly developed to solve the productivity problem of cutting processing after World War II. Since the 1980s, the finite element (FE) analysis capability of plastic deformation has improved fast, and as a result, many papers on FE analysis of plastic deformation have been published. In the 1990s, precise computer models predicting plastic deformation behavior began to be developed, and FE analysis results applicable to the actual production site began to appear in the literature. Recently, advanced plastic deformation analysis techniques that combine mechanics and metallurgy are emerging, and attempts are being made to apply the results to improve product quality and create new products. Hence, in this Special Issue on “Advances in Plastic Deformation Analysis and Process Design”, we would like to recruit mechanistic-based or metallurgical-based papers or papers that combine the two fields. In particular, papers that contribute to innovation in plastic processing design by incorporating AI are welcomed.

Guest Editor

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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.

Editor-in-Chief

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