



Analysis and Modeling of Sheet Metal Forming Processes

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Message from the Guest Editor

Dear Colleagues,

This Special Issue on the “Analysis and Modelling of Sheet Metal Forming Processes” focuses on contributions that detail new developments and enhance the understanding of sheet metal forming analysis and modeling. The topics of interest include (but are not limited to):

- Methods for the optimization, robust design and control of sheet metal forming processes
- Through process Modeling from sheet production to crash simulation
- Advanced Damage Modeling for sheet and tool material
- Prediction of residual stresses and springback
- Novel methods for characterization of sheet metal forming properties and parameter identification
- Models for new sheet materials (monolithic and hybrid)
- Models for flexible and sheet-bulk forming processes
- Constitutive Modeling of sheet metal, especially multi-scale analysis
- Models for warm forming of sheet metal
- Friction models, especially for new tribological conditions such as dry forming or forming with structured tool surfaces
- New element formulations and solution techniques

I am very much looking forward to your contributions.

