Journal of Applied Mathematics

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Special Issue on

Numerical Simulation in Metal-Forming Processes: From Theory to Applications

CALL FOR PAPERS

The state-of-the-art of numerical simulation of metal-forming processes is discussed by researchers, engineers, scientists, and professionals from industry and academia education worldwide. With the rapid development of computing hardware including computing speed and memory capacity, the applicable ranges of numerical simulations are increasingly expanding. The knowledge and understanding of advanced numerical simulations are extremely important for providing valuable information needed for the design and development of metal-forming processes. In particular, the state-of-the-art of numerical simulation is highly impacting on the industrial metal-forming field.

We invite researchers, engineers, scientists, and professionals to contribute original research articles that will stimulate the continuing efforts to understand the numerical theory and the numerical methods on metal-forming process and its applications, providing a new insight into the mathematical modeling and numerical simulation of traditional metal-forming processes, as well as of emerging metal-forming technologies at different scales, and so forth.

Potential topics include, but are not limited to:

- Advances in numerical methods and theories such as finite element method, hybrid method, inverse method, and explicit/implicit integration
- Advances in mathematical modeling such as constitutive modeling, fracture modeling, and thermomechanical modeling
- Advances in multiscale modeling and applications
- Advances in optimization and intelligent systems
- Advances in numerical simulation approaches of industrial applications

Authors can submit their manuscripts via the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/jam/nsmf/.

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