



Computational Methods in Manufacturing Processes

Guest Editors:

Prof. Dr. Carlos Agelet de Saracibar

Department of Civil and
Environmental Engineering,
Technical University of Catalonia,
UPC BarcelonaTech, 08034
Barcelona, Spain

Prof. Dr. Eric Feulvarch

Laboratoire de Tribologie et
Dynamique des Systèmes, Écully,
France

Prof. Dr. Jean-Philippe Ponthot

Department of Aerospace and
Mechanical Engineering,
University of Liege, B-4000 Liege,
Belgium

Deadline for manuscript
submissions:
closed (31 December 2019)

Message from the Guest Editors

Dear Colleagues,

“Computational Modeling in Manufacturing Processes” has been a very active field of research in the last few decades. Significant advances in this field have been the result of interdisciplinary multi-physics and multiscale research in related fields of computational mechanics, constitutive material models, and mathematical analysis. Additionally, during this period, industry has shown a growing interest in incorporating numerical techniques as a valuable tool for design and process optimization.

Topics addressed in this Special Issue may include, but are not limited to:

- Computational modelling
- Numerical simulation
- Finite Elements
- Stabilization methods
- Thermomechanical formulations
- Material properties
- Metallurgical characterization
- Numerical methods
- Industrial applications
- Additive Manufacturing (AM) processes
- Friction Stir Welding (FSW) processes
- Casting processes
- Rolling processes
- Sheet Metal Forming (SMF) processes





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science
and Engineering, College of
Engineering & Applied Science,
University of Wisconsin-
Milwaukee, 3200 N. Cramer
Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang

Beijing Advanced Innovation
Center of Materials Genome
Engineering, State Key
Laboratory for Advanced Metals
and Materials, University of
Science and Technology Beijing,
30 Xueyuan Road, Beijing 100083,
China

Message from the Editorial Board

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.

Author Benefits

Open Access: free for readers, with **article processing charges (APC)** paid by authors or their institutions.

High Visibility: indexed within **Scopus**, **SCIE (Web of Science)**, **Inspec**, **CAPLUS / SciFinder**, and **other databases**.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q1 (*Metals and Alloys*)

Contact Us

Metals Editorial Office
MDPI, St. Alban-Anlage 26
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metals
metals@mdpi.com
[X@Metals_MDPI](https://twitter.com/X@Metals_MDPI)