Special Issue

Digital Image Correlation (DIC) Analysis in Metal Forming Processes

Message from the Guest Editors

Digital Image Correlation (DIC) is a methodology that basically compares images, taken at different time intervals, of two or more surfaces to obtain quantitative measurement of motions and deformations.

DIC techniques are easy to implement and can measure displacements to 1/100th of a pixel. Their flexibility and multidisciplinary nature allow DIC to be used in many applications. Particularly in metals forming, DIC techniques are mainly used for: characterization, identification, cross-validation and control of mechanical parameters in testing machines.

This special issue aims to collect the recent progress in DIC applied to metal forming, regardless of the imaging technique used (regular and high-speed cameras, SEM, AFM, CT, X-ray, ...). Researchers are invited to submit regular papers, short communications, and review articles, featuring their contributions in this field, ranging from early-stage developments to full scale-up applications, comprising the use of DIC applied to metal forming.

Guest Editors

Prof. Dr. Miguel Angel Selles Canto
Department of Mechanical and Materials Engineering, Universitat Politècnica de València, 03801 Alcoy, Spain

Prof. Dr. Samuel Sanchez Caballero
Institute of Design and Manufacturing (IDF), Universitat Politècnica de València (UPV), Plaza Ferrándiz y Carbonell 1, 03801 Alcoy, Spain

Deadline for manuscript submissions

closed (31 March 2022)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/74391

Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/metals

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/journal/metals

About the Journal

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.

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Metals and Alloys)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

MDPI