



## Sustainable Manufacturing Processes and Machine Tool Technology

Guest Editors:

**Prof. Dr. John D. Kechagias**

Department of FWSD (Design & Manufacturing Lab), School of Technology, University of Thessaly, 41500 Gaiopolis, Greece

**Prof. Dr. Panagiotis Kyratsis**

Department of Product and Systems Design Engineering, University of Western Macedonia, 50100 Kila Kozani, Greece

**Dr. Angelos P. Markopoulos**

Section of Manufacturing Technology, School of Mechanical Engineering, National Technical University of Athens, 15780 Athens, Greece

Deadline for manuscript submissions:

**closed (31 December 2021)**

### Message from the Guest Editors

Sustainable manufacturing processes (SMP) and machine tool technology issues are extremely interesting topics nowadays that combine high performance with environmental conscious design and manufacturing. A number of issues from the design process, the machining processes to the manufacturing mechanisms are involved and the researchers are able to explore different aspects of SMPs and simulation tools. Conventional and non-conventional manufacturing can be used together under the sustainability umbrella. Simulation based optimisation can offer considerable benefits towards an environmentally friendly way of life.

Computer Aided Manufacturing has gone far beyond than just creating CNC codes. Optimisation tools for machining trajectories for peculiar geometries, simulation tools based on a variety of principles and linear/nonlinear finite element methodologies applied, lead to more sustainable design and manufacturing results.

This Special Issue provides an opportunity for researchers to present recent advances and technologies in the aforementioned fields and indicate the future trends for sustainability in manufacturing and tooling technologies.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Marc A. Rosen**

Faculty of Engineering and  
Applied Science, University of  
Ontario Institute of Technology,  
Oshawa, ON L1G 0C5, Canada

## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

## Author Benefits

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

**High Visibility:** indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [GeoRef](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

## Contact Us

*Sustainability* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[X@Sus\\_MDPI](https://twitter.com/Sus_MDPI)