



an Open Access Journal by MDPI

Estimating Environmental Impacts in Modeling the Sustainable Development of Machines and Technical Systems

Guest Editors:

Prof. Dr. Andrzej Marczuk

Department of Agricultural, Forestry and Transport Machines, Faculty of Production Engineering, University of Life Sciences in Lublin, 20-612 Lublin, Poland

Dr. Robert Kasner

Department of Machines and Technical Systems, Faculty of Mechanical Engineering, University of Science and Technology, 85-796 Bydgoszcz, Poland

Deadline for manuscript submissions: closed (31 December 2022)

Message from the Guest Editors

Life cycle approaches are key to identifying and reducing the environmental burden of products and processes. Sustainable development is socio-economic development that ensures that the needs of present and future generations are met without worsening quality of life in three areas: economic, ecological and social. Life cycle analysis is a standardized framework for assessing the environmental impact of a product or process that incorporates complexity, leading generalized to conclusions about the entire life cycle. Each product affects the environment, and the life cycle of most products is long and complex. Therefore, the goal is to strive to minimize the product's environmental impact in all phases of the life cycle.

The aim of this Special Issue is to collect creative and research papers presenting original research results, developed using innovative methods for the integrated sustainable development assessment of the life cycles of machines and technical systems.



Specialsue





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 mdpi.com/journal/sustainability sustainability@mdpi.com X@Sus_MDPI