Special Issue

The Role of Digitalization and Industry 4.0 Technologies for Product and Production Development in the Manufacturing Industry

Message from the Guest Editors

In the context of product or production development (PPD), the majority of studies focused on the role and impact of Industry 4.0 (I4.0) technologies such as digital twins, CPS, IoT, AI, Big data etc. on operations and manufacturing, e.g., smart factory, smart manufacturing, digital twin-based CPS. However, deeper analysis studies on the role and impact of I4.0 technologies on product or production system design and development, or in combination are still limited. This special issue (SI) aims to provide a forum for researchers and practitioners to provide a comprehensive overview of how I4.0 enabling technologies can be adopted and implemented to support product or production system development, or combinations. The papers are expected to contribute with the latest results on sociotechnical and managerial understanding, design processes, the implementation of use cases or demonstrations of specific or combination of I4.0 technologies, and theoretical and methodological conceptualisations. The SI welcomes papers that not only focus on technology aspects but also focus on organizational, managerial and social aspects related to 14.0 in product and production development.

Guest Editors

Dr. Koteshwar Chirumalla

Prof. Dr. Jessica Bruch

Prof. Dr. Anna Öhrwall Rönnbäck

Dr. Alessandro Bertoni

Prof. Dr. Anna Syberfeldt

Deadline for manuscript submissions

closed (31 December 2021)



Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/70743

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

mdpi.com/journal/ sustainability





Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



About the Journal

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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University, Columbus, OH 43210, USA

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, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

