Special Issue

From Industry 4.0 to Agriculture 4.0: Current Status, Enabling Technologies, and Research Challenges

Message from the Guest Editor

Industry 4.0 is currently seen as the fourth stage of the Industrial Revolution. Its goal is the structural implementation of digitally networked and cooperative production. In this process, the entire production chain is integrated into a cyber-physical system (CPS) and all operating resources, machines and participants are networked with each other. Like all industrial revolutions, this is also reflected in agriculture. The current scientific question is how this Agriculture 4.0 will be implemented. What technological aspects have already been implemented, and how are they impacting agriculture? What are the implications of Industry 4.0 approaches in interaction with crops and livestock? How can the much stronger environmental influences from climate, soil, environment and society of the open biological system of agriculture be integrated into Industry 4.0?

In this Special Issue, we invite contributions exploring cutting-edge research and recent advances in Agriculture 4.0. Both theoretical and experimental studies are welcome, as well as comprehensive reviews and survey articles.

Guest Editor

Prof. Dr. Heinz Bernhardt
Agricultural System Engineering, Technical University of Munich, 85354 Freising, Germany

Deadline for manuscript submissions

closed (25 August 2022)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 6.1

mdpi.com/si/93101

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 6.1

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (Fluid Flow and Transfer Processes)