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

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Deadline for manuscript submissions

closed (25 August 2022)



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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.

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