

Special Issue

Emerging Technologies for Precision Agriculture

Message from the Guest Editor

Currently, the pace of increase in environmental pollution caused by food production is more rapid than the formulation of answers by science. The two fundamental tasks are as follows: 1. to meet sustainability criteria within the production units and 2. to continuously expand the technical information systems (IoT, WSN, drone monitoring) to enhance the synergy of natural and agricultural areas. The two major areas of sensor development that are outstanding are as follows: 1. Lab2Field, where in the laboratory, in addition to fixed environmental characteristics, precisely functioning instruments are adapted to field conditions. 2. Chipless, i.e., wireless sensors that degrade in the soil or in human and animal bodies. The latter are significant for frozen foods. Nanotechnology opens new windows in the development of agricultural sensors. On the other hand, there is a growing demand for reducing soil compaction. Seeder robots operating in rows, small smart data-gathering robots that can also perform actuator tasks, such as sampling and causing minor soil compaction, contribute to the per plant, ultra-precise platform.

Guest Editor

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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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