

## Special Issue

# New Trends in Weed Control and Smart Agriculture

### Message from the Guest Editors

Farming systems are increasingly moving towards sustainable management practices with the aim to reduce chemical inputs. Weed control is probably the major issue in organic agriculture as chemical herbicides are completely forbidden. Farmers have to find effective alternatives to avoid unacceptable losses. On the other hand, reducing the use of herbicides is a also important task. Smart agriculture technologies can help the farmers to achieve the goal of more sustainable crop management thanks to the development of “intelligent” machines. Furthermore, the integration between preventive, cultural, plant-based weed control methods and precision agricultural techniques is another outstanding issue in this field. In this Special Issue, all contributions covering the following topics are welcome:

- innovative strategies and machines for weed control
- precision agriculture
- organic agriculture
- integrated agriculture
- low rate sprayers
- autonomous machines for weed control
- autonomous machines for groundcover and cover crop management
- herbicides reduction
- sensors and software for weed-crop/weed-row discrimination

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### Guest Editors

Prof. Dr. Michele Raffaelli

Dr. Marco Fontanelli

Dr. Daniele Antichi

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### Deadline for manuscript submissions

closed (20 October 2022)



## Applied Sciences

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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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### Editor-in-Chief

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