



2020 IEEE INTERNATIONAL WORKSHOP ON

# METROLOGY FOR AGRICULTURE AND FORESTRY



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# CALL for PAPERS

for the Special Session on:

## INNOVATIVE ROBOTICS SOLUTIONS AND AUTONOMOUS TASKS IN AGRICULTURE



### ABSTRACT

Robotics and automation are constantly increasing their influence in different fields and the agricultural context is one those that can take advantage of new technologies by improving efficiency, productivity and quality of the crops.

Technology, and in particular automation, is important to provide a cost-effective integration to human labor and thus increase competitiveness and sustainability of farms.

Small-scale autonomous robots can be used to address specific application related to precision agriculture techniques, where the use of fertilizers, pesticides or the execution of other in-field tasks may be automatically confined on specific zones or trees.

The development of versatile robotic platforms or intelligent implements can enable innovation of the small/medium agricultural companies that are relevant in the country agrarian scenario.

### TOPICS

- Robotic platforms;
- Robot localization and autonomous navigation;
- Automation in agriculture;
- performance evaluation of bio-based value chains with focus on residual materials;
- On-board sensor data analysis for farm vehicles;
- Smart implements;
- Innovations and technology in orchards and open-field crops

### ORGANIZERS



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### MORE INFORMATION



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