



FIRA 2020

## Second scientific RobAgri workshop

Adaptation of robots behavior for an efficient use in agriculture

Virtual workshop, 8-10 december 2020

<https://www.fira-agtech.com/en/schedule-2020/>

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### Scope

The popularity of mobile robotics in agriculture is increasing according to the potential benefits for the reduction of the environmental impact and the painfulness. Nevertheless, the deployment of robots in such an area relies on the capability of the robot to adapt itself to the various conditions and task to be achieved encountered in agriculture, as well as the usability by human.

The efficiency, usability and safety of robots indeed appear to be capital conditions for robots, to be a part of the new deal. Despite the numerous progresses achieved in terms of autonomous navigation, persistent scientific locks are still presents for decision making and adaptation of the robot behaviour to a dynamic environment and interaction with human. Such scientific issues do not impact only the robots performances, but also the safety and integrity. Moreover, the navigation is not the sole function to be considered for robotics in agriculture, since, on the contrary of autonomous vehicles area, robots in agriculture have to achieve interaction with soil and plants.

This workshop aims at sharing last scientific advances for agricultural robotics on the three following topics.

- Robot decision for adaptation to off-road and task diversity, and safety preservation
- Human – robot interaction and cobotic application for agriculture
- Implements automation and coordination with robots for agriculture tasks achievement

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### Submissions

All contributions within the scope of the scientific days are welcome. Oral presentations will be selected by the scientific and technical committee, through abstract proposal.

Please send a 1 page abstract proposal by **October 31<sup>st</sup> 2020** at following address:

Fira2020.conference@gmail.com

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## Scientific and Technical committee

The scientific organization of the workshop is achieved under the supervision of the following committee.

Aït-Amar	Samy	<i>Acta</i>
Arignon	Fabien	<i>Sitia</i>
Aubé	Christophe	<i>AgreenCulture</i>
Boursier	Marine	<i>Vitagora</i>
Company	Olivier	<i>LIRMM</i>
Dollet	Anthony	<i>Dintec</i>
Gelibert	Anthony	<i>Carbon Bee</i>
Lemaire	Gille	<i>Poclair-Hydraulics</i>
Lenain	Roland	<i>Irstea</i>
Liebart	Mathieu	<i>CIVC</i>
Lucet	Eric	<i>CEA</i>
Mezouar	Youcef	<i>Institut Pascal</i>