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DEVELOPMENT OF A TRAINING PROGRAM FOR ENHANCING THE USE OF ICT TOOLS IN THE IMPLEMENTATION OF PRECISION AGRICULTURE

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Reading instructions

Authors: INRAE

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1 Objectives

The objectives of this reading session are

- Complement the lectures, practical work and case studies
- To take a broader approach to automated systems, either on practical aspects or on research.
- Write a book report indicating the main ideas and facts, identify unknown concepts and needs for further study.

2 Instructions for students

There are two main sections to read:

1) Artificial Intelligence and SA in Agriculture. These articles are literature reviews and are quite long. Each student chooses one article from the following suggestions:

- Automation and robotics in agriculture: a review Kulkarni et al , 2020
- Robotics and Automation in Agriculture: Current and Future Applications. Mahmud et al , 2020
- Implementation of artificial intelligence in agriculture for irrigation optimization and pesticide and herbicide application. Talaviya et al, 2020.

2) Robotics in agriculture and viticulture: these papers are short technical notes presenting several commercial systems. Each student chooses at least 2 papers.

- Operating cost of the milking robot and operating cost of the milking parlour.
- robots in viticulture IFV
- robots in agriculture

For each of the selected papers, write a short reading note including key concepts, facts, but also concepts that are not familiar or known. For journals, list 5 referenced articles that you would like to read.