Organized Session 11

**Agricultural Robotics for Field Operations and Sensing**

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Concept of Organized Session

In order to improve the working efficiency for farming, more and more robots have been researched and developed all over the world. Robot tractors are now being used in some countries. The utilization of the robot tractors can provide a platform for the upcoming smart agricultural technologies. Moreover, sensing technology using UAVs can provide a high-resolution data of the crops with a low cost that can be efficiently used for collection of big data for analysis using artificial intelligence.

This session focuses on the latest researches on robotics and sensing such as the control method of robot tractors, data collection of UAVs, data processing using deep learning method, as well as remote control technology using the new communication technology.

**Keywords:** Agricultural robotics, field operation, UAV, deep learning.