Laboratory of Bio-Sensing Engineering

Open Seminar, 2023

Presenter: Dr. Njane Stephen. N

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Room: S-173

Time and Date: 14:45～15:45, May. 2 (Tue), 2023

Title: Open field sensing for high-throughput phenotyping of upland field crops

Abstract:

In recent years, food production and the development of new varieties have been rapidly transformed into ICT as smart agriculture and smart breeding. However, informatization of phenotyping has been delayed until today, since sampling of crops has relied on manual measurements of plant height, a task which is cumbersome. Furthermore, the big-data data collection methods themselves need to be continuously improved to increase the amount of useful information that can be obtained. In this lecture we will introduce some open-field sensing techniques for throughput phenotyping of upland crops. Normally it takes more than 10 years to develop a new variety using conventional breeding techniques, we are hoping to reduce this time to a few years based on the target crop and to speed up cultivation methods suitable for climate change and new varieties.

Anyone is welcome! This lecture will be conducted in English.

Contact person: Prof. Naoshi Kondo (6170)

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