

# Mini International Seminar on Data-driven Agriculture

Organized by  
Laboratory of Agricultural Machinery and Production Systems Design,  
Co-organized by  
Bioproduction Environmental Sciences,  
Research Unit on Data-driven Agriculture, Data-driven Innovation Initiative,  
Kyushu University

**Date&Time: 13:00 - 17:00, 9th May (Fri)**  
**Place: W5-220, Ito Campus, Kyushu University**



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The objective of this mini international seminar is to exchange information and engage with participants on topics related to data-driven agriculture, such as sensing and evaluation technologies, AI, robotics, and modeling of plant physiological and ecological phenomena. Anyone is welcome to participate.

## Seminar Program

- 13:00 Opening Address  
OKAYASU Takashi (Professor, The Laboratory of Agricultural Machinery and Production Systems Design, Kyushu University)
- 13:10 Trait Development and Utilization in Sugarcane  
TAKARAGAWA Hiroo (The Japan International Research Center for Agricultural Sciences, JIRCAS)
- 13:50 Utilization of Plant Eco-physiological Information in Agriculture  
YASUTAKE Daisuke (Associate Professor, The Laboratory of Agricultural Meteorology, Kyushu University)
- 14:20 Ruminant Monitoring Using an Inertial Sensor for Smart Goat Husbandry Management  
MITSUOKA Muneshi (Associate Professor, Agricultural Machinery and Production Systems Design Laboratory, Kyushu University)
- 14:50 Coffee Break
- 15:20 Introduction to Biomimicking and Engineering Laboratory  
CHEN Jing-Xiang (MC student, National Sun Yat-sen University, Taiwan)
- 15:40 Introduction to Agricultural Engineering Laboratory and NIR Technology for Durian Sorting  
WARAPORN Sawagchom (MC student, Khon Kaen University, Thailand)
- 16:00 Machine Vision-Based 3D Reconstruction and Feature Analysis of Plants  
PHAM Thanh Dong (Special Researcher, The Laboratory of Agricultural Machinery and Production Systems Design, Kyushu University)
- 16:20 Development of Multifunctional Robot to Assist and Enhance Farming Efficiency Using Digital Twin Technology (Tentative)  
SUTAN Muhamad Sadam Awal (DC student, The Laboratory of Agricultural Machinery and Production Systems Design, Kyushu University, Technical Staff, The IoP Collaborative Creation Center, Kochi University)
- 16:40 General Discussion
- 16:55 Closing Address  
MITSUOKA Muneshi (Associate Professor, Agricultural Machinery and Production Systems Design Laboratory, Kyushu University)