



# WORKSHOP ON

## AGRICULTURE SCIENCE AND LIFE MECHATRONICS IN 2024 AT NUBB, CAMBODIA

### 1. INTRODUCTION



1. Introduction to C-Agri's Joint Research Program  
with NUBB: Starting with the Installation of  
an Environmental Sensing System

Motoharu **FUJIGAKI** (University of Fukui), Takashi **HOSOI** (I.A Imaging LLC)



2. Report on Cases of PhD Thesis Reviews at Several  
Japanese Universities Motoharu **FUJIGAKI** (University of Fukui)

### 2. PRESENTATION : Japanese speakers



Introduction to Computer Analysis of Sensor Signals

Tsuyoshi **MORIYAMA** (Tokyo Polytechnic University)



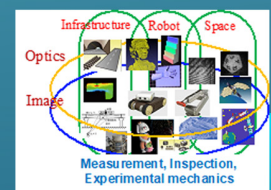
Smart Inspection Monitoring Using High-speed Vision

Kohei **SHIMASAKI**, Feiyue WANG, Shaopeng HU,  
Idaku ISHII (Hiroshima University)



Real-time Measurement of 3D Shape and  
Deformation Using Image Analysis

Motoharu **FUJIGAKI**, (University of Fukui)



9:00-12:00PM | JUNE 10<sup>TH</sup> 2024



(Banon Room) National University of Battambang

Organizers:

National University of Battambang (NUBB) and Committee of Life Mechatronics Symposium (LMS),  
Perceptual Information on C-branch (CPI) in the institute of electrical engineers of Japan (IEEJ)



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### 2. PRESENTATION : Cambodian speakers



Development of Monitoring and Control System  
of Smart Greenhouse In Cambodia

Mr. Kay Sopheak (Electronics)



Khmer Text Semantic Similarity: Developing a Deep Learning  
Model for Sentence Vectorization and Comparison

Mr. Huon Sophy (IT)



Assessment of agricultural supply and  
demand in Battambang province

Mr. Set Vinit (Department of Agriculture)  
and Dr. Hum Chan



Enhancing Agricultural Effectiveness Smart Farming with IoT -Based  
Smart Irrigation and Nutrient Management System in Greenhouse

Mr. VANG Sovann (National Meanchey University)



The Impact of land use of soil organic carbon stock  
in Sangha village, Rattanak Mondoul

Mr. Leang Samrith



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