

# The 2<sup>nd</sup> International Workshop on Agriculture Science and Life Mechatronics

**Date:** October 28th, 2024

**Time:** 7:30-12:00

**Place:** National University of Battambang (NUBB), Battambang, Cambodia

**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)

**Chairperson:** *Dr. Chan HUM*

**Co-chairperson:** *Prof. Tsuyoshi MORIYAMA*

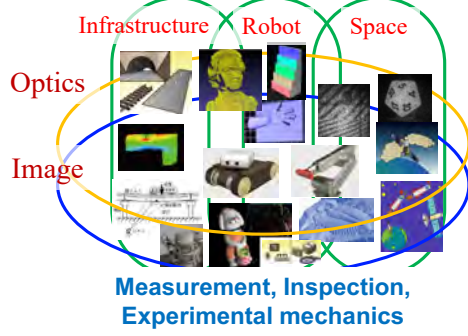
**Schedule:**

Time	Activities	Person(s) in charge
7:30-8:30 am	<b>Registration</b>	IR Team
8:30-9:00 am	<b>Welcome Remarks</b>	<b><i>H.E Sok KHORN</i></b> Rector of NUBB
<b>Chair: Chan HUM (NUBB)</b>		
9:00-9:20	<b>1. Introduction</b> Introduction to C-Agri's Joint Research Program with NUBB  <b>Topic 01</b> Plan of a Locally Adaptive Aqua-Agriculture System with a DX-driven Knowledge-Sharing Platform	<b><i>Motoharu FUJIGAKI</i></b> University of Fukui
9:20-9:40	<b>Topic 02</b> Relationship of Water Environment Factors on Metabolism in Tonle Sap Lake	<b><i>Savoeurn SOUM</i></b> Royal University of Phnom Penh
9:40-10:00	<b>Topic 03</b> Implementation of Automated Nutrient Control for a Small-Scale Hydroponic System	<b><i>Kimly NGOUN, Sovichea TEP, Phok CHRIN, Rithea SUM, Sothea OEUN</i></b> Institute of Technology of Cambodia
10:00-10:10	<b>Break</b>	

<b>Chair: Tsuyoshi MORIYAMA</b> (Tokyo Polytechnic University)		
10:10-10:30	<b>Topic 04</b> Computational Modeling of Agriculture for True Smart Farming by Verbalization of Farmers' Wisdom	<b><i>Tsuyoshi MORIYAMA</i></b> Tokyo Polytechnic University
10:30- 10:50	<b>Topic 05</b> Physico-Chemicals and Diatom-Based Tools to Assess Water Quality in the Sangker River	<b><i>TAL Sokly</i></b> National University of Battambang
10:50-11:10	<b>Topic 05</b> The Effects of Mulch on Weeds Control and Improved Yield on Eggplant in Sandy Loam Location in Siem Reap Province	<b>REIN Channa</b> National University of Battambang
11:10-11:30	<b>Topic 06</b> Support System on Primary Industry Using Image Processing Technology	<b><i>Masashi TODA</i></b> Kumamoto University
11:30-11:45	<b>Topic 07</b> Activities in the Sakura Science Exchange Program in Japan	<b><i>Kechki OENG, Kimly NGOUN, Dararith TIV, Teng MOT, Rithea SUM</i></b> Institute of Technology of Cambodia
11:45-12:00	<b>3. Wrap up</b> - Exchange of opinions and ideas - Potential for developing frameworks for research collaboration - Others	Japanese and NUBB research team
Time and place (to be confirmed)	<b>4. Social gathering</b> (evening)	IR Team

**Japanese speakers**

**Motoharu FUJIGAKI (University of Fukui)**



**Takashi HOSOI (I.A Imaging LLC)**



**Tsuyoshi MORIYAMA (Tokyo Polytechnic University)**



**Masashi TODA (Kumamoto University)**

