

# 2022 Joint Research Workshop

**2021-2022 Project Final Report**

**2022-2023 Project Plan**

**Organizer: Tokushima University  
National Taiwan University of Science and Technology**

**Date: July 27th (Wednesday), 2022**

**Time: 10:00-16 : 30 (Taiwan), 11:00-17 : 30(Japan)**

**Meeting Type : Web [Teams]**

<https://uss.ait.tokushima-u.ac.jp/?id=O3pP2ap2>

## Program at a glance

Time(Taiwan)	Time(Japan)	Agenda
10:00-10:20	11:00-11:20	Opening Ceremony (Welcome speech & Web group photo) Tokushima University : Dean Prof. Yasunori Muto Taiwan Tech : Prof. Huang-Jen Chiu (Dean of ORD)
10:20-11:40	11:20-12:40	Session 1 2021-2022 Project Final Report 2022-2023 Project Plan
15:00-16:20	16:00-17:20	Session 2 2021-2022 Project Final Report 2022-2023 Project Plan
16:20-16:30	17:20-17:30	Closing Ceremony Taiwan Tech : Prof. Ai-Ho Liao (Vice Dean of ORD) Tokushima University : Mikito Yasuzawa

# Program - Project Report & Plan -

## Session 1

Time(Taiwan)	Time(Japan)	Project	Chair Prof. Yoshihiro Deguchi
10:20-10:45	11:20-11:45	<p>[2021-2022] Smart/High Capacity Optical Sensing and Communication</p> <p>[2022-2023] Smart/High Capacity Optical Sensing and Communication II</p> <p>Prof. Shien-Kuei Liaw (Taiwan Tech) / Prof. Hiroki Kishikawa (TU)</p>	
10:45-11:00	11:45-12:00	<p>[2022-2023] Preparation and electrocatalytic properties of Pt/Au bimetallic nanoparticles modified copper hydroxide nanosheet electrode</p> <p>Prof. Meng-Yi Bai (Taiwan Tech) / Prof. Masashi Kurashina (TU)</p>	
11:00-11:15	12:00-12:15	<p>[2021-2022] Solar light-driven 2D nanocomposites immobilized by CNF aerogel for the removal of organic and inorganic pollutants</p> <p>Prof. Chang-Mou Wu (Taiwan Tech) / Prof. Pankaj Madhukar Koinkar (TU)</p>	
11:15-11:40	12:15-12:40	<p>[2021-2022] Lightweight CNN Models Applied for Plant Leaf Diseases using Edge Computing Paradigm</p> <p>[2022-2023] Learning-based De-raining Algorithms for Video System of Drone</p> <p>Prof. Jenq-Shiou Leu (Taiwan Tech) / Prof. Tian Song (TU)</p>	

## Session 2

Time(Taiwan)	Time(Japan)	Project	Chair Prof. Wei-Nien Su
15:00-15:15	16:00-16:15	[2021-2022] Soil liquefaction assessments considering material uncertainties	Prof. Chih-Wei Lu (Taiwan Tech) / Prof. Jing-Cai Jaing (TU)
15:15-15:40	16:15-16:40	[2021-2022] Developing New Track-etched Microporous Membrane Electrodes With Enzyme-free Electrocatalyst For On-line Monitoring Uric Acid Level By Flow-based Biosensing Platform  [2022-2023] Developing new track-etched microporous membrane electrodes with enzyme-free electrocatalyst for on-line monitoring uric acid level by flow-based biosensing platform	Prof. Min-Hsin Yeh (Taiwan Tech) / Prof. Hitoshi Mizuguchi (TU)
15:40-16:05	16:40-17:05	[2021-2022] Enhanced photoluminescence property of nano composite ceramic phosphors  [2022-2023] Enhanced photoluminescence property of nano composite ceramic phosphors	Prof. Shao-Ju Shih (Taiwan Tech) / Prof. Masatsugu Oishi (TU)
16:05-16:20	17:05-17:20	[2022-2023] Cellulose nanofiber as a nucleating agent for elastomeric foam	Prof. Shu-Kai Yeh (Taiwan Tech) / Prof. Antonio Norio Nakagaito(TU)