

Food Production Logistics and Achieving Traceability for Food Safety in Southeast Asia

Southeast Asia is one of the major agricultural hubs of the world, facing challenges to feed the fast-growing population. Unpredictable climate change, land use crisis, environmental impacts, labor shortages, and adaptation behavior are the major problems to maintain the optimum yield production. To solve crisis, a transboundary approach is required in agricultural production system implementing by smart agriculture, IoT based supply-chain logistics, and early warning system to reduce damages of crops to feed 9 billion population by 2050 (SDG 1 & 2). The aim of this session is to focus on the recent achievements, challenges and future research directions to achieve food security and safety for the Southeast Asia.

Tofael Ahamed, Associate Professor, University of Tsukuba, Session Organizer



ICT for Agriculture

Seishi Ninomiya, Professor
University of Tokyo,
President, JSAI



Bio-Sensing Technologies

Naoshi Kondo, Professor
Kyoto University
President, JSAM



Smart Agriculture

Noboru Noguchi Vice Dean & Professor,
Hokkaido University, and SIP
Program Director, Government of Japan



Agricultural Intellimation

K.C. Ting, Vice Dean &
Professor, Zhejiang University
Emeritus Professor and Head,
University of Illinois



Appropriate Scale of Mechanization

Md. Monjurul Alam,
Professor, Bangladesh Agricultural University
Director PHL-IL, Mech.-Hub Project, USAID



Biomass Feedstocks

Kriengkri Kaewtrakulpong,
Assistant Professor,
Kasetsart University



Traceability System

Kudang B. Seminar, Dean & Professor,
Bogor Agricultural University



Risk and Uncertainty

Matsushita Shusuke,
Divisional Chair & Professor,
University of Tsukuba



Biomass and Bioenergy

Ryoza Noguchi, Associate
Professor, University of Tsukuba

東南アジアにおける食品生産物流と食品安全性のためのトレーサビリティの達成

Part I Smart Agricultural Mechanization for Ensuring Sustainable Productivity		
09:00- 09:05	Tofael Ahamed Preface	Associate Professor, Faculty of Life & Environmental Sciences, University of Tsukuba
09:05- 09:50	Seishi Ninomiya "How Should ICT Contribute to Agriculture"	Professor, Field Phenomics Research Lab, University of Tokyo & President, Japanese Society of Agricultural Informatics (JSAI)
09:50-10:35	Naoshi Kondo "Bio-Sensing Technologies for Solving the Trade-off Problem: Food-Environment -To Reduce the Food Loss and Waste- "	Professor, Laboratory of Bio-Sensing Engineering, Graduate School of Agriculture, Kyoto University & President Japanese Society of Agricultural Machinery and Food Engineering (JSAM)
10:35-11:20	Noburo Noguchi "Current Status and Perspectives for Smart Agriculture"	Vice Dean & Professor, Research Faculty of Agriculture, Hokkaido University & SIP Program Director, Cabinet Office, Government of Japan
11:20-12:05	KC Ting "Agricultural Intellimation"	Professor and Vice Dean International Campus of Zhejiang University, China
12.15-12.30	Kyosuke Nagata Greetings	President of the University of Tsukuba
12:30-14:00	Network Lunch	
Part II Achieving Resilience by Preventing Post Harvest Losses, Ensuring Food Production Logistics and Traceability		
14:00-14:40	Md. Monjurul Alam "Adaptation of Small Agricultural Machineries to Improve the Livelihoods of Farmers"	Professor, Department of Farm Power and Machinery, Bangladesh Agricultural University, Mymensingh, Bangladesh
14:40-15:20	Kriengkri Kaewtrakulpong "Biomass Feedstocks Logistics and Supply Chain Management Systems for Bioenergy Industry in Thailand"	Assistant Professor, Department of Farm Mechanics, Kasetsart University, Thailand
15:20-16:00	Kudang Boro Seminar "Integrating and Harmonizing Value-Chain Actors from Land to Consumers Through A Web-Based Traceability System"	Dean, Faculty of Agricultural and Technology Professor, Department of Mechanical and Biosystem Engineering & Bogor Agricultural University (IPB), Indonesia
16:00-16:40	Matsushita Shusuke "Resilient and Vulnerable Livelihoods; Adopting Dynamic Context of Risk and Uncertainty"	Divisional Chair & Professor of Regional Economics and Quantitative Development Economics, Faculty of Life & Environmental Sciences, University of Tsukuba
16:45-17:00	Ryoza Noguchi Concluding Remark & Thanks Note	Associate Professor, Faculty of Life & Environmental Sciences, University of Tsukuba