



# ISMAB 2024

The 11<sup>th</sup> International Symposium on Machinery and Mechatronics for  
Agriculture and Biosystems Engineering

## Best Presentation Award

Development of technology for early detection of mold  
growth based on millimeter wave dielectric sensor

*Koki Iwasaki, Yoshihisa Yamashige, Siyao Chen,  
Akihiro Yasuhara, Keiichiro Shiraga, Naoshi Kondo,  
Yuichi Ogawa*  
Kyoto University

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We present this award to honor an excellent research presentation at  
ISMAB 2024, held on September 27-29, 2024, in Bali, Indonesia.

September 28, 2024




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**Takashi OKAYASU, Ph.D.**  
General Chair of ISMAB 2024  
Professor, Kyushu University



Japanese Society of Agricultural Machinery and Food Engineering (JSAM)  
Korean Society for Agricultural Machinery (KSAM)  
Chinese Institute of Agricultural Machinery (CIAM)  
Indonesian Society of Agricultural Engineering (ISAE)  
ASEAN Conference on Agricultural and Biosystem Engineering (ACABE)





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## Best Presentation Award

Longitudinal characterization of fluorescence properties in the  
wax on avocado skin during maturation using excitation emission  
matrix

*Tianqi Gao, Yoshito Saito, Makoto Kuramoto, Miao Zhang,  
Atsuhiro Yamamoto, Shintaro Hashiguchi, Tetsuhito Suzuki,  
Naoshi Kondo*  
Kyoto University

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## Best Presentation Award

Plant management feasibility based on fruit identification  
using image acquisition cart and precision grading system

*Jean Keiko Putri, Shinichi Nagaoka, Hiroshi Nakashima,  
Takahiro Hayashi, Keiichiro Shiraga, Naoshi Kondo*

Kyoto University

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*T. Okayasu*

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## Best Presentation Award

Rapid microbial detection technique using near-field dielectric  
sensor and membrane filter

*Yoshihisa Yamashige, Siyao Chen, Shojiro Kikuchi,  
Takashi Kawano, Yuichi Ogawa*

Kyoto University

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