

Report of ISPRS Technical Commission III WG III/2, 10 Joint Workshop
-Multidisciplinary Remote Sensing for Environmental Monitoring-
12-14 Mar. 2019, Kyoto, Japan

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ISPRS Joint Workshop Organizing Committee

We organized a joint workshop based on ISPRS Technical Commission III WG III/2, 10 in Kyoto, Japan from March 12th to 14th, 2019. It was supported by ISPRS Working Group on Microwave Remote Sensing (WG III/2) and Agriculture and Natural Ecosystem Modelling and Monitoring (WG III/10). We were also financially supported by Japan Society of Photogrammetry and Remote Sensing (JSPRS) and Kansai branch of JSPRS.

Within recent years, an increasing frequency of extreme climatic events has been observed. The extreme weather such as strong typhoon, hurricanes, torrential rain, droughts and heat waves are reported at all over the world. These extreme weather caused by climate change are affecting to not only natural environment but also human environment. On the other hand, vegetation is sensitive to climate change, hence, earth observation including vegetation area with remote sensing is playing important role in environmental monitoring. From these backgrounds, the joint workshop entitled “Multidisciplinary Remote Sensing for Environmental Monitoring” was held aiming to have a multidisciplinary discussion for remote sensing for environmental monitoring.

The venue of the workshop was Kyoto University’s Clock Tower Centennial Hall in Kyoto University. We welcomed 42 participants including participants from overseas such as Philippines, India, Indonesia, China Taipei, Thailand and UK. The exhibitions were presented by 4 commercial companies and 2 organizations. We received 34 papers in total and the scientific committee selected 9 papers as ISPRS Annals via peer-review with 3 reviewers. It also included 22 papers into ISPRS Archives after abstract review.

During the workshop, we invited 2 keynote speakers; Prof. Eiichi Nakakita from Kyoto University and Prof. Tohru Nakashizuka from Research Institute for Humanity and Nature. Prof. Nakakita addressed the issue of “Fundamental and practical researches on generation and development of baby-rain-cell aloft in a severe storm for urban flash flood risk reduction using various types of weather radars and geostationary satellite”. He presented the cutting-edge methodology to detect baby-rain-cell which will grow up heavy rain showers. Prof. Nakashizuka focused on “Climate change impacts on terrestrial ecosystems in Japan”. Prof. Nakashizuka highlighted the impact of climate change resulting to change of vegetation area in Japan.

We had 20 oral presentations in five technical sessions for 2 days, i.e. Cal/Val/Algorithm, Agriculture/Vegetation, Environment/Ice/Water, Forestry and Disaster. Participants joined the constructive discussions after impressive presentations. The researchers from various background and fields shared their experience and research outcome. In addition to the academic discussion, they also enjoyed the welcome party on the first day with Japanese cuisine and interaction among participants. After the workshop, some of participants joined the excursion to Uji known as one of the most famous historical places in Japan, and walked around Byodoin Temple, a UNESCO world heritage site with nearly 1,000 years of history. After we had lunch “Obanzai”, local cuisine of Kyoto, we experienced authentic Uji tea. We were able to have a very enjoyable time and refreshed our body and mind.

Before concluding this report, we would like to express our gratitude to Japan Society of Photogrammetry and Remote Sensing (JSPRS) and Kansai branch of JSPRS for their financial supports. We would also like to express thanks to all of the members of the scientific committee and organizing committee for their kind help and support.

■Scientific Committee

【Chair】

- Mitsunori Yoshimura (Chair, III/10), The University of Tokyo, Japan

【Co-chair】

- Junichi Susaki (Co-chair, III/2), Kyoto University, Japan

【Member】

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- Zhenhong Li (Co-chair, III/2), Newcastle University, UK
- Saygin Abdikan (Secretary, III/2), Bulent Ecevit University, Turkey
- Shibendu Shankar Ray (Co-chair, III/10), Ministry of Agriculture & Farmers' Welfare, Pusa Campus, India
- Francesco Pirotti (Co-chair, III/10), University of Padova, Italy
- Jaime Hernández Palma (Secretary, III/10), Universidad de Chile, Chile

■Organizing Committee

【Chair】

- Mitsunori Yoshimura (Chair, III/10), The University of Tokyo, Japan

【Co-chair】

- Junichi Susaki (Co-chair, III/2), Kyoto University, Japan

【Member】

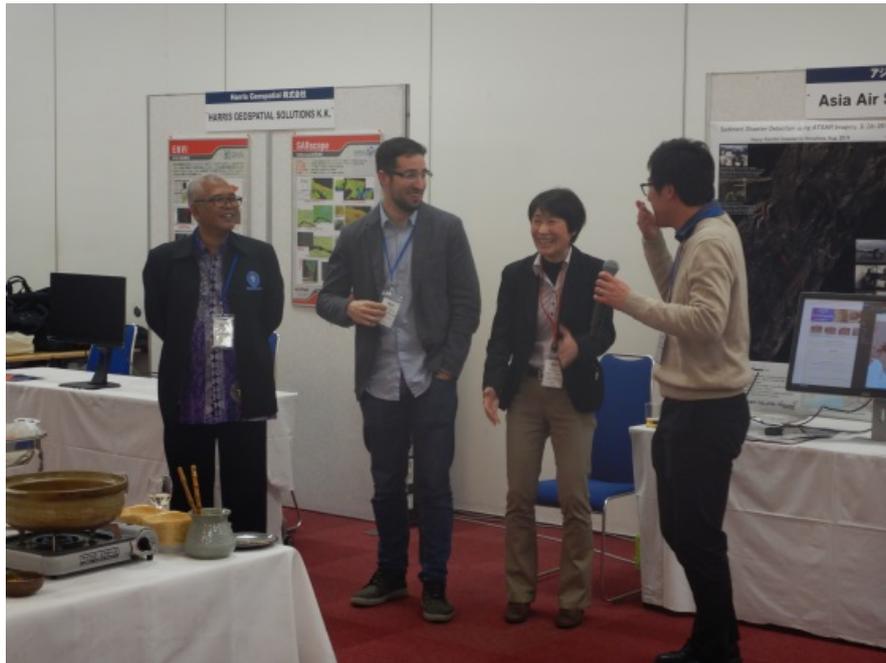
- Kiichiro Kumagai, Setsunan University, Japan
- Megumi Yamashita, Tokyo University of Agriculture and Technology, Japan
- Masayoshi Matsumoto, PASCO Corporation, Japan
- Yasuteru Imai, KOKUSAI KOGYO Co., LTD., Japan
- Makoto Ohashi, Asia Air Survey Co., LTD., Japan
- Mika Kimura



Kyoto University's Clock Tower Centennial Hall as workshop venue



Discussion in the technical session



Surprise interviews in the welcome party



Experience of Uji tea in the excursion