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## The 5th International Symposium on LAPAN-IPB Satellite for Food Security and Environmental Monitoring 2018 (LISAT-FSEM 2018)

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## Foreword

Bogor Agricultural University (IPB) and National Institute of Aeronautics and Space of Indonesia (LAPAN) have committed to work together in developing microsatellite namely LAPAN-A3/LAPAN-IPB Satellite (LISAT) in order to support the food security and environmental monitoring program in Indonesia. This satellite has been launched on June 22, 2016 aboard on India-owned Polar Satellite Launch Vehicle (PSLV-C34) in Sriharikota, India. Moreover, the series of international symposium is a part of the agenda that will support the LISAT satellite programs and it is also intended to support the research related to agriculture, forestry, marine and fisheries, and climate change.

The 5<sup>th</sup> International Symposium on LAPAN-IPB Satellite for Food Security and Environmental Monitoring 2018 (LISAT-FSEM 2018), to which this issue of IOP Conference Series: Earth and Environmental Science (EES) is dedicated, was held on November 6-7, 2018 at the IPB International Convention Center, Bogor, Indonesia. This symposium is jointly organized by the Bogor Agricultural University (IPB), Center for Environmental Research, Research and Community Services Institution, IPB (PPLH-LPPM, IPB), Directorate of Research and Innovation, IPB (DRI-IPB) and the National Institute of Aeronautics and Space of Indonesia (LAPAN), Indonesia. The 5<sup>th</sup> LISAT International Symposium theme emphasized on application of satellite remote sensing data for supporting the food security and environmental monitoring especially on the field of agriculture, marine and fisheries, environmental management, satellite technology and data processing.

This symposium was being participated by more than 100 participants that come from various institutions such as: Indonesian Institute of Science (LIPI), Geospatial Information Agency (BIG), National Institute of Aeronautics and Space of Indonesia (LAPAN), Agency for the Assessment and Application of Technology (BPPT), Center for International Forestry Research (CIFOR), Meteorological Climatological and Geophysical Agency (BMKG), Wildlife Conservation Society, WRI Indonesia, Ecometrica, PT Hatfield Indonesia, Daemeter Consulting, Carbomap and some local government's agencies; from diverse universities such as: Bogor Agricultural University, Universitas Gadjah Mada (UGM), Bandung Institute of Technology (ITB), Sepuluh Nopember Institute of Technology (ITS), Udayana University, University of Indonesia, Palangka Raya University, Krida Wacana Christian University, Syiah Kula University, Sumatera Utara University, Ibn Khaldun University, The University of Edinburgh, University of Leicester, The University of Tokyo, Saga University, and Chiba University.

The committee has received 105 research titles for both category of oral (87 papers) and poster (18 papers) presentation, which come from various scientists and students from various countries and institutions. These research papers have been reviewed by the scientific committee of LISAT-FSEM 2018. Regarding the peer review result, 50 papers have been selected to be published in this issue. Indeed, the result from this symposium will provide useful information from satellite technology in order to support the government's programs for food security and environmental monitoring. Moreover, this symposium will strengthen the collaboration between multi-institutions and develop a better cooperation among the different research groups, either for basic research or technology developments.



We wish to thank the authors who have contributed to yield a high scientific standard to this issue. We are also grateful to IOP Publishing, especially Stephanie Gill (IOP Conference Commissioning Editor), for allowing us to share some of the symposium results with a large audience of colleagues through the IOP Conference Series: Earth and Environmental Science. We would like to thank IPB World Class University Program for giving us opportunity to get the additional funding for our international symposium. This symposium was supported also by sponsorship partners such as Medco Natuna E&P Ltd and also Forests2020 Indonesia for supporting this event by being a co-host.

Yudi Setiawan  
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