INNOVATION PATHWAYS TO SUSTAINABILITY

Distinguished Lecturers Series

Prof. Martin Herold

“SENSING FOR SUSTAINABILITY: NOVEL EARTH OBSERVATION APPROACHES SUPPORTING THE LAND USE SECTOR”

October 12, 2020, 14 h CEST, Zoom

About the Speaker:

Prof. Dr. Martin Herold is the chair for geoinformation science and remote sensing at Wageningen University. He holds a PhD from the University of California-Santa Barbara (2004) and completed a habilitation (2009) on a topic on operational global land cover observation and assessments (FSU Jena). Martin is an expert in the development and implementation of land change monitoring systems using novel technologies and approaches, and in application contexts of the UNFCCC and the Sustainable Development Goals. He has published more than 200 scientific papers, enjoys supervising PhD students and supporting capacity development initiatives for moving innovative satellite and ground-based approaches into sustainable and climate-smart land use practice.

Abstract:

Earth Observation continuously measures and monitors the types, magnitude and rates of land surface dynamics. Recent advancement in big data analytics applied to large satellite time series archives, new terrestrial and drone-based sensing technologies, and the use of computer vision and artificial intelligence opens new avenues to enhance a world-wide “sensor system for sustainability”. This allows for better tracking of anthropogenic activities, environmental changes, impacts and reactions by society to add more self-awareness to Earths self-regulation that is increasingly influenced by human actions. The presentation will give an overview of recent Earth Observation trends for a monitoring framework that supports policy development and implementation by providing improved data and transparency in setting priorities and tracking collective progress towards sustainability and climate-change mitigation goals in the land use sector with both local detail and global consistency.

Registration for the Event:

https://www.uni-bonn.de/forschung/forschungsprofil/innovation-und-technologie-fuer-eine-nachhaltige-zukunft/registration

The lecture is held via Zoom and will be recorded and published afterwards. The Zoom access data will be sent to those registered a few days prior to the lecture.

About the Lecture Series:

The lecture series on Innovation Pathways to Sustainability is a forum for high profile and internationally visible scientists who are active in academia or at the science-policy interface. The lectures address an interdisciplinary audience of experts from natural, social, and engineering sciences as well as representatives from international and implementation-oriented organizations.

Save the Date for the Next Lectures:

- November 11, 2020, 14 h CEST, Prof. Xiaoxiang Zhu
- December 1st, 2020, 14 h CEST, Prof. Matthew McCabe

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