



Call for Papers and Posters



Workshop on

UAV-based Remote Sensing Methods for Monitoring Vegetation



09th - 10th September 2013

University of Cologne, Germany



Organized by:

CRC/TR32: Patterns in Soil-Vegetation-Atmosphere Systems: Monitoring, Modelling and Data Assimilation

CRC 806: Our Way To Europe: Culture-Environment Interaction and Human Mobility in the Late Quaternary

ISPRS Working Group VII/5: Methods for Change Detection and Process Modelling

ICASD: International Center for Agro-Informatics and Sustainable Development

CROP.SENSE.net: Networking Sensor Technology R&D for Crop Breeding and Management

Forschungszentrum Jülich: IBG-2 Plant Sciences

Program - Monday, 09th September 2013

- 10.30 **Registration**
- 11.00 Coffee & Sandwiches
- 12.00 **Welcome Address**
Karl Schneider, Dean, University of Cologne, Germany
- 12.05 **Introduction**
Georg Bareth, University of Cologne, Germany
- 12.15 **Hyperspectral Remote Sensing of Vegetation**
Prasad S. Thenkabail, USGS, USA
- 13.00 **UAV-based Hyperspectral and Multispectral VHR Remote Sensing: prospects and limitations**
Pablo J. Zarco-Tejada, IES MARS-GeoCAP, European Commission
- 13.45 **POSTERS** & Coffee
- 14.45 **Remote Sensing of Forests**
Barbara Koch, University of Freiburg, Germany
- 15.30 **Vegetation Indices, Tower Fluxes, and Ecosystem Processes**
Alfredo Huete, University of Technology Sydney, Australia
- 16.15 **POSTERS** & Coffee
- 17.00 **Multispectral Laserscanning Systems for Forestry and Agriculture**
Juha Hyyppä, Finnish geodetic Institute, Finland
- 17.45 **Millimeter Wave SAR for UAV-based Remote Sensing**
Stephan Stanko, Fraunhofer Institute for High Frequency Physics and Radar Techniques, Germany
- 18.30 **POSTERS**, Icebreaker & Buffet

Program - Tuesday, 10th September 2013

- 08.30 Coffee
- 09.00 **Multi-sensor Unmanned Aircraft Systems (UAS) for environmental remote sensing**
Arko Lucieer, University of Tasmania, Australia
- 09.45 **Crop Sensing for Precision Farming**
Yuxin Miao, China Agricultural University, China (PENDING)
- 10.30 **POSTERS**, Coffee & Buffet
- 11.00 **Remote Sensing of Plant Pigments in Coastal Aquatic Systems**
Natascha Oppelt, University Kiel, Germany
- 11.45 **Fluorescence Imaging for Crop Sensing**
Uwe Rascher, Research Center Jülich, Germany
- 12.30 **POSTERS**, Coffee & Buffet
- 13.30 **Land Surface Phenology Metrics Extraction and Accuracy Assessment**
Fei Yuan, Minnesota State University, USA
- 14:15 **High Throughput Phenotyping in Field: A Comparison Between UAV and Ground Based Remote Sensing Approaches**
Frédéric Baret, INRA, France
- 15.00 **POSTERS**, Coffee & Buffet
- 15.30 **Remote estimation of crop biophysical characteristics: fAPAR, pigment contents, gross primary production**
Anatoly A. Gitelson, University of Nebraska-Lincoln, USA
- 16.15 **Final Discussion & Closing**
- 16.30-17.30 **POSTERS & Coffee**

- **Workshop fee:** 80 € (including printed workshop proceedings, snacks, coffee and soft drinks)
- **Deadline for full paper (6-12 pages) for workshop proceedings:** 30th June 2013
- **Papers will be published in printed proceedings and online (open access) with a DOI**
- **Deadline for workshop registration:** 30th June 2013
- **Posters will be displayed during the whole workshop.**
During the poster sessions, presenters are expected to be available for discussions.

Location

University of Cologne - Institute of Geography
Lecture Hall (Geosciences)
Zülpicher Straße 49°
D - 50674 Cologne

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