

## 34th EARSeL Symposium

Mon, 16 Jun 2014     **Symposium Opening and Keynote**

08:00 Registration

Aula of the Old Library (Stary BUW), Krakowskie Przedmiescie 26/28, 00-927  
Warszawa, Poland

08:45 Symposium Opening

Audytorium of the Old Library (Stary BUW), Krakowskie Przedmiescie 26/28, 00-927  
Warszawa, Poland

### **The 34th EARSeL Symposium at University of Warsaw**

Prof. Ioannis Manakos (EARSeL Chairman), Prof. Anna Giza-Poleszczuk, Prof. Andrzej Lisowski, Prof. Lena Halounová, Dr hab. Bogdan Zagajewski, Dr. Anna Jarocińska, Dr. Eng. Krzysztof Stereńczak

08:45 - 09:20

### **Keynote: Chances and challenges of Polish EO sector after joining ESA, Prof. M. Banaszekiewicz**

Audytorium

09:20 - 09:55

### **Keynote: Operational applications of satellite Synthetic Aperture Radar data, Dr. Paolo Pasquali**

09:55 - 10:30

10:30 Climate (Rainer Reuter, Hans Tømmervik)

Audytorium

### **Potential of Geostationary Satellite Imagery for Land Surface Monitoring**

Kyu-Sung Lee, Hwa-Seon Lee

10:30 - 10:45

### **40 years Landsat time series of snow patch dynamics in N-Sweden**

Eberhard Parlow

10:45 - 11:00

### **Coffee Break**

rooms 111-116

11:00 - 11:30

Mon, 16 Jun 2014 **Monday Track 1**

11:30 Fluvial Remote Sensing (Luca Demarchi, Simone Bizzi, Melanie Bertrand)

Audytorium

**Channel morphology through airborne LiDAR data: recent advances from mountain streams to large rivers**

Francesco Comiti, Walter Bertoldi, Marco Cavalli, Joshua Theule, Sebastiano Trevisani

11:30 - 11:45

**Characterization of riparian zones in Wallonia (Belgium) from local to regional scale using aerial LiDAR data and photogrammetric DSM**

Adrien Michez, Hervé Piégay, Philippe Lejeune, Hugues Claessens

11:45 - 12:00

**IN-STREAM HABITATS CHARACTERIZATION COUPLING NEAR INFRARED VHR IMAGERY AND LIDAR DERIVED PRODUCTS WITHIN A GEOGRAPHIC OBJECT BASED APPROACH**

Luca Demarchi, Simone Bizzi, Christof Weissteiner

12:00 - 12:15

**Hillslope erosion mapping from multi-resolution and multi-sources remote sensing data: application in the Southern French Alps**

Mélanie Bertrand, Frédéric Liébault, Hervé Piégay

12:15 - 12:30

**Potential and challenges of ground imagery to study wood debris production and ice dynamics in fluvial systems.**

Véronique Benacchio, Hervé Piégay, Thomas Buffin-Bélanger, Kristell Michel, Lise Vaudor

12:30 - 12:45

**Application of hyperspectral image for hydrodynamic model verification - Bug and Narew Rivers confluence, Poland**

Artur Stanisław Magnuszewski, Bogdan Zagajewski, Łukasz Sławik, Jarosław Chormański

12:45 - 13:00

## 34th EARSeL Symposium

### Lunch

rooms 111-116

13:00 - 14:00

14:00 Water & Wetland (Lena Halounova, Artur Magnuszewski, Zbigniew Bochenek)

Audytorium

#### **Applying Spectral Unmixing to Determine Surface Water Parameters in Mining Environment**

Veronika - Kopackova, Lenka Hladikova

14:00 - 14:15

#### **Wetland leaf area index modelling with field and satellite hyperspectral data**

Tomasz Berezowski, Jarosław Chormański

14:15 - 14:30

#### **Application of various classification approaches and types of satellite data for mapping wetland habitats**

Zbigniew Bochenek, Shailesh Shrestha, Iwona Malek

14:30 - 14:45

#### **Disassembling "evapotranspiration" in-situ with a complex measurement tool including field spectrometer**

Jaroslav Chormanski, Tomasz Berezowski, Tomasz Okruszko, Malgorzata Kleniewska, Sylwia Szporak-Wasilewska, Jan Szatyłowicz, Okke Batelaan

14:45 - 15:00

#### **Modelling of carbon uptake for wetlands in relation to soil – vegetation parameters – examined by satellites data**

Katarzyna Dabrowska-Zielinska, Monika Tomaszewska, Maria Budzynska, Alicja Malinska, Iwona Malek

15:00 - 15:15

#### **Monitoring of water surface changes of groundwater influenced lakes in NE Germany using RapidEye archive data**

Iris Kleine

15:15 - 15:30

### Coffee Break

15:30 - 16:00

- 16:00 Oceans & coastal zones (Samantha Lavender, Marullo Salvatore)  
Auditorium  
**Use of video monitoring system based on high-resolution security cameras for coastal sciences**  
Paweł Andrzejewski  
16:00 - 16:15
- Multi-Sensor Ocean Colour Atmospheric Correction for Time-Series Data**  
Samantha Jane Lavender  
16:15 - 16:30
- Quantifying coastal sediments using MERIS and MODIS data in the Taranaki Bight, New Zealand.**  
Mike Tuohy, Paula Nieto, Di Zhou  
16:30 - 16:45
- Validation of ocean color satellite derived water-leaving radiance by latitude in Pacific and Southern Ocean**  
Jung-il SHIN, Sang-il Kim, Hyun-cheol Kim  
16:45 - 17:00
- Wavelet based ship detection on optical and SAR imagery**  
Guillaume Jubelin, Ali Khenchaf  
17:00 - 17:15
- IceBreaker**  
rooms 111-116  
17:15 - 18:45

## 34th EARSeL Symposium

Mon, 16 Jun 2014 **Monday Track 2**

11:30 Remote Sensing for Cultural and Natural Heritage 1 (Rosa Lasaponara, Mario Hernandez, Piotr Pabjanek)

room 107

**From space to place: using photogrammetry and its derived products for Egyptian archaeology and geomorphology in the area of Dayr al-Barshā, middle Egypt**

Marijn Hendrickx, Véronique De Laet, Gertrud Van Loon, Bart Vanthuyne, Harco Willems, Gert Verstraeten, Rudi Goossens

11:30 - 11:45

**Using surface models to analyze and detect urban pressure around the Pyramids of Giza, Egypt**

Marijn Hendrickx, Cornelis Stal, Véronique De Laet, Gert Verstraeten, Rudi Goossens

11:45 - 12:00

**Remote Sensing for Monitoring urban expansion in Greater Cairo: A multi-temporal multi-sensor supervised land use classification method.**

Jose Manuel Delgado Blasco, Gert Verstraeten, Ramon Hanssen

12:00 - 12:15

**Analysis of the aeolian-fluvial-human interactions in the Nile valley (central Egypt) by combining field-based geomorphology with remote sensing**

Gert Verstraeten, Ihab Mohamed, Harco Willems, Véronique De Laet, Jose Manuel Delgado Blasco

12:15 - 12:30

**Integrated Remote Sensing Investigations of Ancient Quarries and Road Systems in the Greater Dayr al-Barsh Region, Middle Egypt: a Study of Logistics**

Véronique De Laet, Gertrud Van Loon, Athena Van der Perre, Harco Willems, Gert Verstraeten

12:30 - 12:45

**Quantifying migration rates of barchan dunes using radar and optical remote sensing imagery**

Ihab Mohamed, Jose Manuel Delgado Blasco, Ramon F Hanssen, Gert Verstraeten

12:45 - 13:00

**Lunch**

rooms 111-116

13:00 - 14:00

14:00 Remote Sensing for Cultural and Natural Heritage 2 (Mario Hernandez, Rosa Lasaponara, Piotr Pabjanek)

room 107

**Potential of airborne lidar scanning data - "IT System of the Country's Protection against extreme hazards" (ISOK) in detection and inventory of cultural heritage**

Rafał Zapłata

14:00 - 14:15

**Remote Sensing technologies for natural and cultural heritage monitoring and management in Italy and Argentina**

Rosa Lasaponara, Nicola Masini

14:15 - 14:30

**Remote sensing of preventive archaeology: new insight in the context of the "Silk Road project"**

Rosa Lasaponara, Nicola Masini

14:30 - 14:45

**A View from Space over the Lower Khabur**

Tobias Eteşami

14:45 - 15:00

**Assessment of SAR Configurations for Archaeological Survey in Desert Regions**

Christopher Stewart, Rosa Lasaponara, Giovanni Schiavon

15:00 - 15:15

**An overview of optical satellite data and methods for detection of archaeological distinguishing marks**

Dominik Ruciński, Jan Niedzielko

15:15 - 15:30

**A geometric analysis of Neolithic hunting traps in the Arabian harra**

Ramon F. Hanssen, Vera Liem, Lorenzo Iannini, J. Manuel Delgado

15:30 - 15:45

**Coffee Break**

rooms 111-116

15:45 - 16:00

## 34th EARSeL Symposium

16:00 Forest Fires (Ioannis Z. Gitas, Agata Hoscilo, Edyta Wozniak)  
room 107

**Can remotely sensed data be used to support monitoring of fires in Poland?**

Agata Hościło, Konrad Turlej, Milena Napiórkowska

16:00 - 16:15

**Use of SAR images for assessing forest fires in the Brazilian Amazonia**

Felipe C Costa, Mahdi Motagh, Olaf Hellwich

16:15 - 16:30

**The satellite-based products for supporting Prevention and Recovery of Forest Fires in PREFER**

Giovanni Laneve, Roberto De Bonis, Lorenzo Fusilli, Barbara Hirn, Fabrizio Ferrucci

16:30 - 16:45

**Enhancement of MSG fire product by using regionalized thresholds**

ibrahim sonmez, Erdem Erdi, Fatih Demir, Murat Arslan, Ahmet E Tekeli

16:45 - 17:00

**DATA PROCESSING OF RUSSIAN FOREST FIRES REMOTE MONITORING SYSTEMS**

Vitold Komorovski

17:00 - 17:15

**IceBreaker**

rooms 111-116

17:30 - 19:00

Mon, 16 Jun 2014    **2014-06-16 Track 3**

16:00 APLADYN (BELSPO). Closed session  
room 106



## 34th EARSeL Symposium

Tue, 17 Jun 2014      **Tuesday Track 1**

08:45 UAV (Koen Meuleman, Anna Zmarz)

Audytorium

**Keynote: Design aspects of UAV platforms used in remote sensing. Prof.**

**Dr. Zdobyslaw Goraj**

Audytorium

08:45 - 09:25

**Technical Break**

09:25 - 09:30

**Overview of the VITO activities in field of UAV and remote sensing**

Koen D.J. Meuleman, VITO RPAS team

09:30 - 09:45

**Some optimization criteria of the UAV photogrammetric flight-tracks planning**

Jaroslav Hajduk, Mirosław Rodzewicz

09:45 - 10:00

**USE OF UNMANNED AIRCRAFT SYSTEMS (UAS) IN A MULTI-SCALE VEGETATION INDEX STUDY OF ARCTIC PLANT COMMUNITIES IN ADVENTDALEN ON SVALBARD**

Hans Tømmervik, Stein-Rune Karlsen, Lennart Nilsen, Bernt Johansen, Rune Storvold, Anna Zmarz, Pieter S.A. Beck, Kjell-Sture Johansen, Kjell-Arild Høgda, Scott Goetz, Taejin Park, Bogdan Zagajewski, Ranga B Myneni, Jarle W Bjerke

10:00 - 10:15

**Five examples of advanced UAVs for demanding applications**

Wienczysław Plutecki

10:15 - 10:30

**UAV FOR MONITORING OF INDICATOR SPECIES ON ANTARCTIC PROTECTED AREAS**

Małgorzata M Korczak-Abshire, Anna Zmarz, Katarzyna J Chwedorzewska, Stein Rune Karlsen, Mirosław Rodzewicz, Rune Storvold, Zdobysław Goraj

10:30 - 10:45

**UAV APPLICATION FOR PHOTOGRAMMETRIC PURPOSES**

Anna Zmarz, Jaroslav Hajduk

10:45 - 11:00

**Coffe Break**

rooms 111-116

11:00 - 11:30

11:30 Instruments (Miroslaw Rataj, Konstantinos Perakis)

Audytorium

**RGBI Images with UAV and off-the-shelf compact cameras**

Ralf Gehrke, Ansgar Greiwe

11:30 - 11:45

**Hyperspectral imaging spectrometer SPEKTROP - first measurements**

Miroslaw Rataj, Piotr Wawer, Lukasz Platos, Stanislaw Lewinski, Michal Krupinski, Artur Nowakowski, Krzysztof Stopa

11:45 - 12:00

**The DLR FireBIRD Mission**

Doris Klein, Eckehard Lorenz, Thomas Terzibaschian

12:00 - 12:15

**“Columbus Eye” - Earth Observation from the ISS**

Andreas Rienow, Henryk Hodam, Gunter Menz

12:15 - 12:15

**Preparations for application of Sentinel-2 images for Norwegian users**

Arnt Kristian Gjertsen, Jon Arne Trollvik

12:15 - 12:30

**The Flying Laboratory - multipurpose surveillance and observation platform**

Henryk Szkudlarz, Dariusz Karczmarz, Przemyslaw Madrzycki, Malgorzata Perz-Osowska

12:30 - 12:45

**Lunch**

rooms 111-116

12:45 - 13:45

14:00 Methods (Eyal Ben Dor, Malgorzata Krowczynska, Kostantinos Nikolopoulos)

Audytorium

**Daily land surface monitoring system based on MODIS data**

Stanislaw Lewiński, Edyta Wozniak, Adam Włodarkiewicz, Krzysztof Stopa

14:00 - 14:15

## 34th EARSeL Symposium

### **Automatic extraction of built-up areas in satellite images using fractal analysis and morphological granulometry**

Przemysław Kupidura

14:15 - 14:30

### **Semi-automatic open Source geoprocessing for change-detection in federal geodata**

Andreas Wicht, Ansgar Greiwe

14:30 - 14:45

### **Digital cameras spectral calibration for improvement of DCVI (digital camera vegetation index) assessment**

Michał T. Chilinski, Marek Ostrowski

14:45 - 15:00

### **A Doppler lidar for remote sensing of wind fields in offshore wind farms**

Paul G. Hofmeister, Christoph Bollig, Martin Kunze, Sarah Fayed, Mehmet Latif Bayrak, Rainer Reuter

15:00 - 15:15

### **Interpolating accurate TerraSAR-X science orbit data**

Dimitra Vassilaki, Thanasis Stamos

15:15 - 15:30

### **Coffee Break**

rooms 111-116

15:30 - 15:45

15:45 Interactive poster presentation 1

### **High Resolution Ocean Color products estimation in fjord of Svalbard, Arctic Sea**

Sang-il Kim, Hyun-cheol Kim, Jung-il Shin, Se-young Park

15:45 - 15:47

### **Quality Assessment of Geospatial Data**

Bouhadjar MEGUENNI

15:47 - 15:49

### **UAV Based Very-High-Resolution Imaging on Barton Peninsula, Antarctica**

Hong Lyun Park, Se-Young Park, Chang-Uk Hyun, Hyun-Cheol Kim

15:49 - 15:51

### **Applications of Mobile GIS in Forestry Tamilnadu Forest Department**

Manoharan - Rajamanickam, Victor G Rajamanickam

15:51 - 15:53

**Evaluation of Spectral Indices for Differentiating Melt Pond from Sea Ice**

Chang-Uk Hyun, Hong Lyun Park, Hyun-Cheol Kim

15:53 - 15:55

**Relief evolution monitoring using airphotos time series and GIS. A case study from western Greece**

Katerina Kavoura, Konstantinos Nikolakopoulos, Nikolaos Sabatakakis

15:55 - 15:57

**Objects of ancient system of navigation on coast of the White Sea**

Alina Nikolaevna Paranina, Roman Viktorovich Pararin

15:57 - 15:59

**Identification of floodplains, local depressions and hydrogenic habitats using satellite images and digital surface models**

Sylwia Szporak-Wasilewska, Dorota Mirosław-Świątek, Magda Szymańska

15:59 - 16:01

**Alternative Methods for Updating Reliable Geospatial Data**

Hussein Abdulmuttalib

16:01 - 16:03

**Development and Evaluation of a Near Real Time System for Assessing Hydrologic Response in Chenab River Catchment**

Muhammad Adnan Shahid, Muhammad Adnan Shahid, Muhammad Adnan Shahid

16:03 - 16:05

**Utilization of SEBAL algorithm and Landsat-8 data for estimation of evapotranspiration – a case study: Tatra mountains region**

Ayad Ali Faris, Ahmed Hashem al-Sulttani, Adrian Ochtyra, Anna M. Jarocinska, Adriana Marcinkowska

16:05 - 16:07

**Deconvolution Algorithm as a tool of spectral signal processing**

Natalia Ewa Zalewska

16:07 - 16:09

**Shape-texture features for the VHRS satellite images classification using the MLP neural net**

Mahi Habib, Kaouadji Mounia

16:09 - 16:11

## 34th EARSeL Symposium

### **TIMELINE**

Corinne M Frey, Andreas Dietz, Martin Bachmann, Eva-Maria Bernhard, Thomas Ruppert, Katrin Molch, Meinhard Wolfmüller, Claudia Kuenzer, Andreas Mueller, Stefan Dech

16:11 - 16:13

### **Analysis of forest vegetation-climate feedback regimes through satellite remote sensing imagery**

Maria A Zoran, Adrian I Dida

16:13 - 16:15

### **Research of the White/Barents Seas Harp Seal Population Pup Production Distribution and Numbers with Use of Multispectral Air Surveys Technologies**

Sergey Anatolievich Egorov

16:15 - 16:17

### **Automatic conversion of colour distribution in overlapped aerial photographs**

Thanasis Stamos, Dimitra Vassilaki

16:17 - 16:19

### **Assessing Erosion Risks Induced By Land-Use Change in Favor of Commercial Forestry in Chile**

Andreas Ch Braun, Callum C Banfield, Joachim Vogt, Barbara Koch

16:19 - 16:21

### **Calibration and evaluation of TRMM precipitation estimates for different climatic zones in Pakistan**

Muhammad Adnan Shahid, Piero Boccardo, Walther Cámara García, Adriana Albanese, Elena Cristofori, Muhammad Usman

16:21 - 16:23

16:30 Image Processing (Stanisław Lewinski, Anna Jarocinska)

Audytorium

### **A STUDY ON THE TEMPORAL AND SPATIAL ENHANCEMENT OF THERMAL IMAGE SEQUENCES**

Paolo Adesso, Maurizio Longo, Rocco Restaino, Gemine Vivone

16:30 - 16:45

### **New Continuum Removal Technique for Automated Absorption Feature Detection and Characterization from Reflectance Spectroscopy Data.**

Christian Mielke, Nina K Boesche, Christian Rogass, Hermann Kaufmann

16:45 - 17:00

**Influence of Satellite Image Filtration on Fractal and Multifractal Features in the Context of Land Cover Classification**

Anna Wawrzaszek, Michal Krupinski, Wojciech Drzewiecki, Sebastian Aleksandrowicz  
17:00 - 17:15

**An automated processing chain for the retrieval of georeferenced reflectance data from hyperspectral EO-1 Hyperion acquisitions**

Christian Rogass, Luis Guanter, Christian Mielke, Daniel Scheffler, Nina K. Boesche, Christin Lubitz, Maximilian Brell, Daniel Spengler, Karl Segl  
17:15 - 17:30

**Object-based Change Detection Using Multitemporal High-Resolution TerraSAR-X Data**

Osama A. Yousif, Yifang Ban  
17:30 - 17:45

**The importance of absolute spatial congruency in pansharpening**

Aristidis D. Vaiopoulos, Kostas Karatzalos, Dimitrios Argialas  
17:45 - 18:00

**A hierarchical classification of the German tidal flats using a multi-sensor and multi-temporal remote sensing approach**

Richard Jung, Winny Adolph, Alena Schmidt, Manfred Ehlers  
18:00 - 18:15

**EXTREME LEARNING MACHINE FOR CLASSIFICATION OF HIGH RESOLUTION REMOTE SENSING IMAGES AND ITS COMPARISON WITH TRADITIONAL ARTIFICIAL NEURAL NETWORKS (ANN)**

Shailesh Shrestha, Zbigniew Bochenek, Claire Smith  
18:15 - 18:30

## **34th EARSeL Symposium**

Tue, 17 Jun 2014      **Tuesday Track 1**

16:00 EARSeL Council meeting (Closed session)  
room 106

Wed, 18 Jun 2014    **Wednesday Track 1**

08:45 Multitemporal Remote Sensing (Eberhard Parlow, Yifang Ban)

Audytorium

**Keynote: Atmospheric corrections, Prof. E. Parlow**

Audytorium

08:45 - 09:25

**Technical Break**

09:25 - 09:30

**In-season bi-temporal land cover classification and change detection analysis of Bochum, Germany by multi-temporal Landsat TM data**

László Henits, Carsten Jürgens, László Mucsi

09:30 - 09:45

**Real-Time Geo-Information Fusion as one key aspect of Digital Earth**

Florian Hillen, Manfred Ehlers, Bernhard Höfle, Peter Reinartz

09:45 - 10:00

**Multitemporal TerraSAR-X Data for Urban Land Cover Mapping: Preliminary Results**

Alexander Jacob, Yifang Ban

10:00 - 10:15

**Multitemporal ENVISAT ASAR Data for Global Urban Mapping: Preliminary Results**

Yifang Ban, Alexander Jacob, Paolo Gamba

10:15 - 10:30

**Investigating satellite SPOT VEGETATION multitemporal NDVI maps for land degradation monitoring in the Basilicata Region using DFA and PCA**

A. Lanorte, A. Aromando, F. De Santis, Rosa Lasaponara

10:30 - 10:45

**Coffe Break**

rooms 111-116

10:45 - 11:05

11:05 Hyperspectral Remote Sensing (Koen Meuleman, Eyal Ben Dor, Adriana Marcinkowska)

Audytorium

**The Airborne Prism Experiment: operations and latest status of the Processing and Archiving Facility**

Koen D.J. Meuleman, Kristin Vreys, Sindy Sterckx, Bart Bomans, Jan Biesemans, APEX team

11:05 - 11:20



## 34th EARSeL Symposium

### **Practical Example of the Supervised Vicarious Calibration (SVC) method - ValCalHyp Airborne Hyperspectral Campaign under EUFAR**

Anna Brook, Eyal Ben-Dor

11:20 - 11:35

### **Recent advances in reducing radiometric miscalibration – Application for hyperspectral push-broom sensors**

Christian Rogass, Christian Mielke, Daniel Scheffler, Nina K. Boesche, Christin Lubitz, Maximilian Brell, Daniel Spengler, Karl Segl

11:35 - 11:50

### **MINERAL MAPPING BASED ON AN AUTOMATIC DETECTION OF MULTIPLE ABSORPTION FEATURES**

Veronika - Kopackova, Lucie Koucka

11:50 - 12:05

### **Laboratory and image spectroscopy for mapping of selected rocks in peak areas of the Krkonoše Mountains**

Lucie Kupkova, Jana Kubečková, Bogdan Zagajewski, Adriana Marcinkowska, Adrian Ochtyra

12:05 - 12:20

### **Hyperspectral Digital Image Analysis and Geochemical Analysis of a Rare Earth Elements Mineralized Intrusive Complex (Fen Carbonatite Complex in Telemark Region, Norway)**

Nina Boesche, Christian Mielke, Christian Rogass, Hermann Kaufmann

12:20 - 12:35

### **Classification of vegetation communities based on APEX hyperspectral data and Support Vector Machines**

Adriana Marcinkowska, Bogdan Zagajewski, Adrian Ochtyra, Anna Jarocińska, Edwin Raczko, Koen Meuleman, Bronisław Wojtuń, Lidia Przewoźnik

12:35 - 12:50

### **Relationships between narrow-band vegetation indices and fluorescence**

Marlena Kycko, Bogdan Zagajewski, Elżbieta Romanowska, Adrian Ochtyra, Anna Jarocińska, Aneta Modzelewska

12:50 - 13:05

### **Lunch**

13:05 - 13:50

14:00 General Assembly

Audytorium

### **Coffee Break**

rooms 111-116

16:00 - 16:20

**Keynote: The ESA Earth Observation programme: recent results and tools for Education and Training, Dr. Francesco Sarti**

Audytorium  
16:20 - 17:00

17:00 Remote Sensing for Developing Countries (Joost Vandenabeele, Jean-Christophe Schyng)

Audytorium

**Remote Sensing for Development in Africa**

Klaus U. Komp

17:00 - 17:15

**Preliminary geomorphological mapping of the Ngounié watershed in the south-west Gabon**

Dieudonne MTD Mouketou-Tarazewicz, Dieudonne MTD Mouketou-Tarazewicz

17:15 - 17:30

**Improving soil and landuse mapping and analyzing the degradation risks in a typical Lesser Himalayan watershed**

Pawanjeet S Datta, Andreas Ch Braun, Helmer Schack-Kirchner, Barbara Koch

17:30 - 17:45

**Mekrou transbounday river basin**

Iban Ameztoy, Ezio Crestaz, César Carmona-Moreno, Luca Demarchi

17:45 - 18:00

**Investigating Quality Measures of Spatial Analysis Conducted for Assessing Energy Conservation Towards Sustainability**

Hussein Abdulmuttalib

18:00 - 18:15

09:30 Remote Sensing of Vegetation (Katarzyna Dabrowska-Zielinska, Lucie Kupkova, Anna Jarocinska)

room 107

**PROSAIL model in simulating the reflectance of mountains non-forest communities**

Anna M. Jarocinska, Bogdan Zagajewski, Adrian Ochtyra, Adriana Marcinkowska, Lucie Kupkova

09:30 - 09:45

**Application of MODIS and Landsat NDVI to detect vegetation-groundwater interactions**

Urszula Somorowska, Anna M. Jarocinska

09:45 - 10:00

**Classification of vegetation damage using Landsat data and Artificial Neural Network**

Adrian Ochtyra, Bogdan Zagajewski, Anna Kozłowska, Marlena Kycko, Anna Jarocińska, Adriana Marcinkowska

10:00 - 10:15

**The assessment of the temporal ecosystem services changes in suburban area of Warsaw**

Piotr Pabjanek, Iwona Szumacher, Jacek Leszko

10:15 - 10:30

**Coffee Break**

rooms 111-116

10:30 - 11:00

17:00 Forestry (Piotr Wezyk, Bogdan Zagajewski)  
room 107

**Remote sensing of periurban forest vegetation biophysical variables using time-series MODIS satellite data**

Maria A Zoran, Roxana S Savastru, Dan M Savastru, Marina N Tautan, Laurentiu V Baschir

17:00 - 17:15

**TEMPORAL CHANGES IN NORWAY SPRUCE PHYSIOLOGICAL STATUS USING HYPERSPECTRAL DATA: A CASE STUDY OF MOUNTAINEOUS FORESTS HEAVILY AFFECTED BY A PAST LONG-TERM ACIDIC DEPOSITIONS**

Lucie Čevená, Zuzana Lhotáková, Veronika Kopačková, Lucie Kupková, Jan Mišurec, Markéta Potůčková, Pavel Cudlín, Petya Entcheva-Campbell, Jana Albrechtová

17:15 - 17:30

**Environment Modification Follow-up and Diagnosis of Degradation Risk of Forest Ecosystems by Remote Sensing and Spatialized Indicators**

Marjolaine Okanga-Guay, Nadine Ndonghan Iyangui, Ghislain Moussavou, Rodrigue Mintsa, Médard Obiang Ebanega, Bruno Nkoumakali

17:30 - 17:45

**Influence of stand height and standing volume on selected Vegetation Indices acquired from RapidEye images**

Aneta Modzelewska, Krzysztof Stereńczak, Radomir Bałazy

17:45 - 18:00

## **34th EARSeL Symposium**

18:30 Gala Dinner  
Bristol Hotel

Thu, 19 Jun 2014      **Thursday Track 1**

09:00 Remote Sensing of Land Cover (Ioannis Manakos, Premysl Stych)

Audytorium

**Analysis of the content of Norwegian CORINE Land Cover classes.**

Hanne Gro Wallin, Linda Aune-Lundberg

09:00 - 09:15

**GIO Land Monitoring component in Poland**

Agata Hościło, Andrzej Ciołkosz, Dariusz Ziółkowski, Milena Napiórkowska, Anna Debowska, Marta Gruzziel

09:15 - 09:30

**THE ASSESSMENT OF THEMATIC RELIABILITY OF ARTIFICIAL AREAS FROM CLC2006 DATABASE**

Agnieszka Jenerowicz, Anna Wolszczak, Paweł Postek, Elżbieta Bielecka

09:30 - 09:45

**Land cover mapping of seminatural and extensively used areas basing on Landsat images and Artificial Neural Networks**

Bogdan Zagajewski, Jakub Olczyk, Urszula Pytlak, Monika Kacprzyk

09:45 - 10:00

**Improving SPOT-5 land cover classification using RADARSAT polarimetric decompositions**

Sebastian Aleksandrowicz, Edyta Woźniak, Stanisław Lewiński

10:00 - 10:15

**Evaluation of land cover changes based on the fusion of multispectral and lidar data**

Premysl Stych, Krystina Lihanova

10:15 - 10:30

**Coffee Break**

10:30 - 10:45

10:45 Interactive poster presentation 2

**Land Evaluation Using Remote Sensing and GIS Technology for Major Crops Grown in Amran Valley, Yemen**

Abdulhameed Hussein Alashwal

10:45 - 10:47

**A new method for artefact-free estimation of surface slope from lidar data**

Teemu Kumpumäki, Tarmo Lipping

10:47 - 10:49

**EVALUATING DIGITAL ELEVATION MODELS IN THE ATMOSPHERIC CORRECTION PROCEDURE FOR DIFFERENT SATELLITE IMAGE DATA (BARTIN CASE STUDY, TURKEY)**

ayhan atesoglu, metin tunay

10:49 - 10:51

**Evaluating ASTER GDEM accuracy for two areas in Greece.**

Konstantinos G. Nikolakopoulos, Konstantina Mexia

10:51 - 10:53

**POLARIMETRIC SAR IMAGE CLASSIFICATION ON URBAN AREA USING A SUBSET SELECTION METHOD**

Maryam Soheili Majd, Elisabeth Simonetto, Laurent Polidori

10:53 - 10:55

**Assessment of WorldView 2 images for condition analysis of trampled high-mountain meadows**

Marlena Kycko, Bogdan Zagajewski, Adrian Ochtyra, Anna Jarocińska, Adriana Marcinkowska, Małgorzata Krówczyńska, Karolina Orłowska

10:55 - 10:57

**Characterization of high-mountain plant habitat preferences with a use of remote sensing vegetation indices and digital elevation model data**

Karolina Orłowska, Adrian Ochtyra, Anna Kozłowska, Bogdan Zagajewski

10:57 - 10:59

**The relationship between the amount of precipitation and values of vegetation indices based on Landsat images**

Adrian Ochtyra, Marlena Kycko, Anna Jarocińska, Bogdan Zagajewski, Piotr Pabjanek, Małgorzata Krówczyńska, Anna Chlebicka

10:59 - 11:01

**Evaluation of Time periods Role in modelling the Relationship Between Leishmaniasis Diseases Distribution and Environmental Variables Using GIS and Remote Sensing Techniques**

Abbas Alimohammadi, mohammad sharifikia, zohre mozaffari

11:01 - 11:03

**Global DEMs' accuracy improvement with respect to local DEM data**

Dimitra Vassilaki, Thanasis Stamos

11:03 - 11:05

**Crop Identification Using Random Forest Classifier in Multi - Temporal Images, Two Case Studies in Iran**

hamid salehi, AliAkbar Matkan, Davod Ashourloo

11:05 - 11:07

**AN URBAN HEAT ISLAND MODEL FOR THE CITY OF SOFIA**

Ivan G. Yanev, Lachezar H. Filchev

11:07 - 11:09

**Urban expansion patterns for Bucharest, Romania**

Mihaela Aldea, Florian Petrescu

11:09 - 11:11

**Land Use / Land Cover and Shoreline Changes between Kalaignanapuram And Vembar Coast –A Study Using Remote Sensing and GIS**

Manoharan - Rajamanickam, Victor G Rajamanickam

11:11 - 11:13

**Global-scale evaluation of two satellite-based passive microwave soil moisture data sets (SMOS and AMSR-E) with respect to modelled estimates**

Amen Alyaari, Jean-Pierre Wigneron, Agnes. Ducharne, Yann Kerr, Patricia De Rosnay, Clement Albergel, Ahmad Al bitar, Richard De Jeu

11:13 - 11:15

**Spatial and temporal patterns of land surface temperature in the Mekong Basin**

Corinne M Frey, Claudia Kuenzer

11:15 - 11:17

**MONITORING PHENOLOGICAL CHANGES OF DIFFERENT CROP TYPES IN DOROUD REGION, WEST OF IRAN, USING DUAL POLARIMETRIC TANDEM-X IMAGES**

Sara Mirzaei, Mahdi Motagh, Hossein Arefi

11:17 - 11:20

11:30 Remote Sensing for Agriculture 1 (Jerzy Cierniewski, Ioannis Manakos)

Audytorium

**A tool for predicting diurnal soil albedo variation in Poland and Israel**

Jerzy Cierniewski, Arnon Karnieli, Cezary Kazmierowski, Jakub Ceglarek

11:30 - 11:45

**Estimating soil losses and relative erosion rates using high resolution SAR interferometry.**

Magdalena Fitrzyk

11:45 - 12:00



## 34th EARSeL Symposium

### **Field scale management zones delineation: multisensor method development and validation**

Jan Niedzielko, Anna M. Jarocinska  
12:00 - 12:15

### **Improving the correlation between SMOS soil moisture product and field measurements**

Matthew Ofwono, Katarzyna Katarzyna Dabrowska-Zielinska, Joerg Kaduk, Virginia Nicolas Perea  
12:15 - 12:30

### **Cosmo-SkyMed® Imagery for Crop Characterization**

Federica Segalini, Rocchina Guarini, Giovanni Mastronardi, Claudia Notarnicola, Francesco Vuolo, Luigi Dini, Giovanni Milillo  
12:30 - 12:45

### **Improving Remote Sensing Derived Dry Matter Productivity By Reformulating The Efficiency Factors: Case Studies For Wheat And Maize**

Yetkin Ozum Durgun, Sven Gilliams, Gregory Duveiller, Bakary Djaby, Bernard Tychon  
12:45 - 13:00

### **Lunch**

rooms 111-116  
13:00 - 14:00

14:00 Remote Sensing for Agriculture 2 (Ioannis Manakos, Jerzy Cierniewski)

Audytorium

### **Evaluation of Apple Scab prediction model using MODIS satellite data**

Sylwia Nasilowska  
14:00 - 14:15

### **The high-resolution hyperspectral imaging for detection of fruit trees' diseases in the early period of vegetation season**

Marek Ostrowski, Michal T. Chilinski, Sebastian Przybyłko  
14:15 - 14:30

### **FluoWAT leaf clip measurements for maize bio-physiological parameters measurements**

Sylwia Nasilowska, Ittai Herrmann, Chiara Cilia, Luis Alonso, Loris Vescovo  
14:30 - 14:30

**Rice Area Interannual Variation through a Remote Sensing Based Mapping Algorithm**

Ashraf M Elshorbagy, Emad H Imam, Mohamed H Nour

14:30 - 14:45

**Development of automated satellite remote sensing and ground spectroscopy techniques for monitoring olive oil mill waste disposal areas in Crete-Greece**

DIMITRIOS D ALEXAKIS, APOSTOLOS SARRIS, CHARITON KALAITZIDIS, NIKOS PAPADOPOULOS, PANTELIS SOUPIOIS

14:45 - 15:00

**Coffee Break**

15:15 - 15:45

**Symposium Closing Session**

Auditorium

15:45 - 16:30

## 34th EARSeL Symposium

Thu, 19 Jun 2014      **Thursday Track 2**

14:00 3D & Urban Remote Sensing (Carsten Jürgens, Derya Maktav, Mattia Crespi, Karsten Jacobsen)

room 107

### **PERFORMANCE OF LARGE AREA COVERING HEIGHT MODELS**

Karsten Jacobsen

14:00 - 14:20

### **EXTRACTION OF URBAN BUILDING HEIGHTS FROM LIDAR DATA: AN INTEGRATED REMOTE SENSING AND GIS APPROACH**

Muhammad T Rahman

14:20 - 14:40

### **USE OF LIDAR HIGH RESOLUTION DEM FOR RISK STABILITY ANALYSIS**

Nathalie Stephenne, Christophe Fripiat, Mathieu Veschkens, Marc Salmon,

Daniel Pacyna

14:40 - 15:00

### **Determining Frankfurt's suitability potential for the OnTop" concept**

Marzena Markiewicz, Matthias Herrmann, Arthur Rikort, Sebastian Kreisel

15:00 - 15:20

### **Urban uplift in Staufen im Breisgau: What have we learned from five years of space-borne SAR observations?**

Christin Lubitz, Mahdi Motagh, Hermann Kaufmann

15:20 - 15:40

### **DETERMINANTS INFLUENCING THE AMOUNT OF ASBESTOS-CEMENT ROOFING IN POLAND**

Ewa Wilk, Małgorzata Krówczyńska, Piotr Pabjanek

15:40 - 16:00

### **Coffee Break**

15:30 - 16:00

18:30 Social Dinner

Kompania Piwna, Podwale 25, Warszawa