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2nd International Workshop on Temporal Analysis of Satellite Images

Final Program

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Session Overview

Date: Wednesday, 17/Jun/2015

3:00pm - 5:00pm

E31

WSTA-1: Agriculture

Session Chair: **Prof. Xiangming Xiao**, University of Oklahoma, United States of America

5 Presentations ↓

Date: Thursday, 18/Jun/2015

8:20am - 9:40am

E1

WSTA-2: Glacier, Ice Sheet and Permafrost

Session Chair: **Prof. Eberhard Parlow**, University Basel, Switzerland

Session Chair: **Dr. Ian Anthony Brown**, Stockholm University, Sweden

4 Presentations ↓

8:20am - 9:40am

E31

WSTA-3: Image Processing

Session Chair: **Dr. Ruth Sonnenschein**, EURAC, Italy

4 Presentations ↓

10:10am - 11:50am

E31

WSTA-4: Urban

Session Chair: **Dr. Xiaojun Yang**, Florida State University, United States of America

Session Chair: **Dr. Maik Netzband**, Ruhr-University Bochum, Germany

4 Presentations ↓

10:10am - 11:50am

E1

WSTA-5: Landscape and Vegetation Dynamics

Session Chair: **Prof. Margareta Ihse**, Stockholm University, Sweden

Session Chair: **Prof. Le Wang**, The State University of New York at Buffalo, United States of America

5 Presentations ↓

1:30pm - 3:10pm

E35

WSTA-6: Forestry

Session Chair: **Dr. Achim Röder**, Trier University, Germany

Session Chair: **Prof. Rutherford Vance Platt**, Gettysburg College, United States of America

5 Presentations ↓

1:30pm - 3:10pm

E1

WSTA-7: Temporal Analysis Techniques

Session Chair: **Prof. Lars Eklundh**, Lund University, Sweden

Session Chair: **Prof. zhang lei**, institute of remote sensing and digital earth, China, People's Republic of

5 Presentations ↓

3:10pm - 4:00pm

WSTA-8: Poster Session

Session Chair: **Alexander Jacob**, KTH Royal Institute of Technology, Sweden

Session Chair: **Jan Haas**, KTH Royal Institute of Technology, Sweden

12 Presentations ↓

4:00pm - 5:40pm

E1

WSTA-9: Landuse and Land Cover Change

Session Chair: **Prof. Nina S.N. Lam**, Louisiana State University, United States of America

Session Chair: **Prof. Arnon Karnieli**, Ben Gurion University, Israel

6 Presentations ↓

Presentations

WSTA-1: Agriculture

Time: Wednesday, 17/Jun/2015: 3:00pm - 5:00pm · Location: E31

Session Chair: Xiangming Xiao, University of Oklahoma, United States of America

Exploring the potential of time series analysis to map Zimbabwe's Fast Track Land Reform

Konrad Hentze

Remote Sensing Research Group, Germany;

Tracking the dynamics of paddy rice planting areas through analysis of time series Landsat images

Xiangming Xiao¹, Jinwei Dong¹, Yuanwei Qin¹, Geli Zhang¹, Cui Jin¹, Jie Wang¹, Yuting Zhou¹, Chandrashekar Biradar²

¹University of Oklahoma, United States of America; ²ICARDA, CGIAR, Jordan;

Evaluation of Agricultural Expansion and Fallow Regeneration in Southern Angola

Anne Schneibel¹, Marion Stellmes¹, Achim Röder¹, Manfred Finckh², Rasmus Revermann², Joachim Hill¹

¹Trier University, Germany; ²University of Hamburg, Germany;

Drought estimation maps using multitemporal Landsat data

Argentina Teodora Nertan¹, Andrei Stancalie², Laura Mihai², Alexandru Dumitrescu¹

¹National Meteorological Administration, Romania; ²National Institute for Laser, Plasma & Radiation Physics, Romania;

Evaluating the response of the Vegetation Condition Index (VCI) to meteorological drought in an agricultural region of China North Plane

Yuan Yuan Wang

National Satellite Meteorological Center, China, People's Republic of;

WSTA-2: Glacier, Ice Sheet and Permafrost

Time: Thursday, 18/Jun/2015: 8:20am - 9:40am · *Location:* E1
Session Chair: Eberhard Parlow, University Basel, Switzerland
Session Chair: Ian Anthony Brown, Stockholm University, Sweden

Glacier dynamics in NW-Spitsbergen using Landsat time series data (1976 – 2014)

Eberhard Parlow, Florian Denzinger
 University Basel, Switzerland;

Analysis of temporal signatures on glaciers using optical satellite data

Solveig Havstad Winsvold, Andreas Kääh
 University of Oslo, Norway;

Analysis of the surface albedo of West-Greenland using the MODIS MCD43A3 16-day albedo product

Eberhard Parlow, Maurus Suppiger
 University Basel, Switzerland, Meteorology, Climatology and Remote Sensing Lab;

Supertemporal trend analysis of Arctic landscape disturbances based on Landsat time-series

Ingmar Nitze^{1,2}, Guido Grosse¹
¹Helmholtz Centre - Alfred-Wegener-Institute for Polar and Marine Research, Germany; ²University of Potsdam, Germany;

WSTA-3: Image Processing

Time: Thursday, 18/Jun/2015: 8:20am - 9:40am · *Location:* E31
Session Chair: Ruth Sonnenschein, EURAC, Italy

The choice of topographic correction on regional land cover mapping in alpine areas using multi-temporal RapidEye images

Ruth Sonnenschein¹, Ruben Remelgado¹, Ion Sola²
¹EURAC, Italy; ²University of Navarre, Spain;

Exploring the effects of radiometric normalization of dense Landsat time series for forest monitoring

Frank Thonfeld^{1,2}, Michael Schmidt³, Olena Dubovyk², Gunter Menz^{1,2}
¹Remote Sensing Research Group, University of Bonn, Germany; ²Center for Remote Sensing of Land Surfaces (ZFL), University of Bonn, Germany; ³Department of Science, Information Technology, Innovation and the Arts, Brisbane, Queensland, Australia;

BRDF correction for Landsat TM/ETM+ data over Amazonian forests

Jasper Van doninck, Hanna Tuomisto
 University of Turku, Finland;

SPATIOTEMPORAL ANALYSIS OF THE SAND SPITS FORMING THE COASTAL LAGOONS OF NAMIBIA

Robert Behling, Sabine Chabrilat, Robert Milewski
 Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences, Germany;

WSTA-4: Urban

Time: Thursday, 18/Jun/2015: 10:10am - 11:50am · *Location:* E31
Session Chair: Xiaojun Yang, Florida State University, United States of America
Session Chair: Maik Netzband, Ruhr-University Bochum, Germany

Multitemporal Sentinel-1A SAR Data for Global Urbanization Monitoring: Preliminary Results

Yifang Ban, Alexander Jacob
 KTH Royal Institute of Technology, Sweden;

Spatiotemporal urbanization analysis in Kuala Lumpur, Manila and Singapore cities

Maik Netzband
 Ruhr-University Bochum, Germany;

Characterizing Urban Spatial Growth with Satellite Imagery, Neural Networks, and Landscape Metrics

Xiaojun Yang¹, Libin Zhou²
¹Florida State University, USA; ²Thomson Reuters Lanworth, USA;

Driving Force Analysis of Land Use and Land Cover Change in Beijing-tianjin Economic Circle of China

Wen bo Xu¹, Jinlong Fan²
¹University of Electronic Science and Technology of China, China, People's Republic of; ²National Satellite Meteorological Center, Beijing, China;

WSTA-5: Landscape and Vegetation Dynamics

Time: Thursday, 18/Jun/2015: 10:10am - 11:50am · *Location:* E1
Session Chair: Margareta Ihse, Stockholm University, Sweden
Session Chair: Le Wang, The State University of New York at Buffalo, United States of America

Combining niche models and remote sensing to explore short-term habitat suitability temporal dynamics and improving biodiversity monitoring

João Francisco Gonçalves^{1,2}, Paulo Alves¹, Isabel Pôças³, Bruno Marcos^{1,2}, Rita Sousa-Silva⁴, Ângela Lomba^{1,2}, Emilio Civantos¹, António Monteiro¹, João Honrado^{1,2}
¹Research Center in Biodiversity and Genetic Resources (CIBIO) - Research Network in Biodiversity and Evolutionary Biology Associate Laboratory (InBIO); ²Faculty of Sciences of the University of Porto, Portugal; ³Biosystems Engineering (CEER), Institute of Agronomy, Technical University of Lisbon, Portugal; ⁴Division Forest Nature and Landscape, Department of Earth and Environmental Sciences, Katholieke Universiteit Leuven, Leuven, Belgium;

Comparison of modelled and satellite-observed start of the vegetation active season in Finland

Kristin Böttcher¹, Tiina Markkanen², Tea Thum², Mika Aurela², Tuula Aalto², Ali Nadir Arslan²
¹Finnish Environment Institute, Finland; ²Finnish Meteorological Institute, Finland;

Mapping invasive saltcedar distribution with spectral and phenological information from multi-temporal Landsat TM imagery

Le Wang
 The State University of New York at Buffalo, United States of America;

Multitemporal RapidEye-data analyses of semi arid natural vegetation in the Negev, Israel along an climate gradient

Cornelia Gläßer, Stefanie Elste, Christian Götz
 Martin Luther University Halle, Germany;

Military Training and Fire Regime Impacts on Tallgrass Prairie Vegetation Degradation

Anne Jacquin¹, Michel Goulard², Shawn Hutchinson³, Stacy Hutchinson⁴
¹UMR1201 INRA El Purpan, France; ²UMR1201 INRA, France; ³Department of Geography, Kansas State University; ⁴Department of Biological and Agricultural Engineering, Kansas State University;

WSTA-6: Forestry

Time: Thursday, 18/Jun/2015: 1:30pm - 3:10pm · *Location:* E35
Session Chair: Achim Röder, Trier University, Germany
Session Chair: Rutherford Vance Platt, Gettysburg College, United States of America

<p>Multi-temporal forest monitoring in the Sentinel-1 era: first results from Vietnam <u>Alexandre Bouvet</u>, Stéphane Mermoz, Thuy Le Toan CESBIO, France;</p>
<p>NEAR REAL-TIME MONITORING OF INSECT DISTURBANCES IN FOREST WITH MODIS DATA <u>Per Ola Olsson</u>¹, Johan Lindström², Lars Eklundh¹ ¹Department of Physical Geography and Ecosystem Science, Lund University, Lund, Sweden.; ²Centre for Mathematical Sciences, Lund University, Sweden;</p>
<p>DEVELOPMENT OF A REMOTE SENSING BASED FAST RESPONSE SYSTEM TO SUPPORT THE MANAGEMENT OF STORM CALAMITIES IN FORESTS <u>Oliver Bauer</u>¹, Rudolf Seitz¹, Kathrin Einmann², Markus Immitzer², Clement Atzberger², Andreas Schmitt³, Andreas Hirner³, Andreas Müller³, Matthias Frost⁴, Monika Kanzián⁵ ¹Bavarian State Institute of Forestry (LWF), Freising, Germany; ²Institute of surveying, remote sensing and land information (IVFL), University of natural resources and life sciences (BOKU), Vienna, Austria; ³German Aerospace Center (DLR), Oberpfaffenhofen, Germany; ⁴Bavarian State Forest Enterprise (BaySF), München, Germany; ⁵Austrian Federal Forest Enterprise (ÖBF), Purckersdorf, Austria;</p>
<p>Using decadal pixel-based Landsat composites to analyze post-war forest cover dynamics in Angola <u>Achim Röder</u>¹, David Frantz¹, Stellmes Marion¹, Schneibel Anne¹, Finckh Manfred², Chissingu Valter³, Hill Joachim¹ ¹University of Trier, Dept. of Environmental Remote Sensing and Geoinformatics, Trier, Germany; ²University of Hamburg, Biodiversity, Evolution and Ecology of Plants Biodiversität, Hamburg, Germany; ³University of Lubango, Centre for Biodiversity Studies and Environmental Education, ISCED, Angola;</p>
<p>Remote sensing indicators of changes in ecosystem functioning related to wildfire disturbances Bruno Marcos^{1,2}, João Gonçalves^{1,2}, António Monteiro¹, Domingo Alcaraz-Segura³, Mário Cunha^{2,4}, João Pradinho Honrado^{1,2} ¹Research Centre in Biodiversity and Genetic Resources (CIBIO) - Research Network in Biodiversity and Evolutionary Biology Associate Laboratory (InBIO); ²Faculty of Sciences of the University of Porto (FCUP); ³University of Granada, Department of Botany; ⁴Geo-Space Sciences Research Centre (CIGCE);</p>
<p>WSTA-7: Temporal Analysis Techniques Time: Thursday, 18/Jun/2015: 1:30pm - 3:10pm · Location: E1 Session Chair: Lars Eklundh, Lund University, Sweden Session Chair: zhang lei, institute of remote sensing and digital earth, China, People's Republic of</p>
<p>An adaptive scheme for temporal compositing of the MODIS NDVI product <u>Jie ZHOU</u>^{1,2,4}, Li JIA^{1,3}, Massimo Menenti², Ben Gorte² ¹State Key Laboratory of Remote Sensing Science, Jointly sponsored by Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences and Beijing Normal University; ²Technology University of Delft, The Netherlands; ³Alterra, Wageningen University and Research Centre, Wageningen, The Netherlands; ⁴University of Chinese Academy of Sciences, Beijing, China;</p>
<p>Extending the global NDVI time series of SPOT-VGT with PROBA-V: quality assessment <u>Carolien Toté</u>, Else Swinnen, Wouter Dierckx, Pieter Kempeneers, Bruno Smets VITO, Remote Sensing Unit, Belgium;</p>
<p>Time-series analysis of SAR images for detection of ground subsidence in the Scheldt estuary <u>Jan Walstra</u>, Pierre-Yves Declercq Geological Survey of Belgium, Royal Belgian Institute of Natural Sciences;</p>
<p>ANALYSES OF RECENT SURFACE DYNAMIC OF SOUTH AFRICAN KALAHARI SALT PANS BASED ON MULTITEMPORAL LANDSAT AND MODIS DATA <u>Robert Milewski</u>, Sabine Chabrilat, Robert Behling Helmholtz-Zentrum Potsdam Deutsches GeoForschungsZentrum GFZ, Germany;</p>
<p>Land use mapping in the Brazilian Amazon with remote sensing time series <u>Victor Maus</u>^{1,2}, Gilberto Câmara^{1,2}, Fernando M. Ramos² ¹Institute for Geoinformatics, University of Münster, Germany; ²Center for Earth System Science, National Institute for Space Research (INPE), Brazil;</p>
<p>WSTA-8: Poster Session Time: Thursday, 18/Jun/2015: 3:10pm - 4:00pm Session Chair: Alexander Jacob, KTH Royal Institute of Technology, Sweden Session Chair: Jan Haas, KTH Royal Institute of Technology, Sweden</p>
<p>NEW METHODS FOR TIME SERIES PROCESSING OF IMAGE DATA IN TIMESAT <u>Zhanzhang Cai</u>¹, Lars Eklundh¹, Per Jönsson² ¹Department of Physical Geography and Ecosystem Science, Lund University, Sweden; ²Group for Materials Science and Applied Mathematics, Malmö University, Sweden;</p>
<p>Multi-Temporal Pixel Trajectories of SAR Backscatter and Coherence in Tropical Forests <u>Elsa Carla De Grandi</u>¹, Edward Mitchard¹, Dirk Hoekman², Astrid Verhegghen³, Francesco Holecz⁴, Paula Nieto Quintano¹ ¹University of Edinburgh, United Kingdom; ²Wageningen University; ³Joint Research Center; ⁴Sarmap;</p>
<p>Investigating the effect of fire dynamics on aboveground carbon storage in the Bateke landscape, Congo <u>Paula Nieto Quintano</u>¹, Edward Mitchard¹, Casey Ryan¹, Tim Rayden² ¹University of Edinburgh, United Kingdom; ²Wildlife Conservation Society Congo;</p>
<p>Determination of optimal acquisition dates for satellite data for field crop classification <u>Henning Gerstmann</u>, Markus Möller, Cornelia Gläßer University of Halle, Germany;</p>
<p>Getting on to the track of potential food baskets: A multitemporal satellite data analysis of East African wetlands <u>Esther Eva Amler</u> University of Bonn, Remote Sensing Research Group, Germany;</p>
<p>The dynamics of a city. Over 40 years of change in Bucharest and its detection in multitemporal satellite imagery. <u>Mihaela Aldea</u>¹, Florian Petrescu¹, Eberhard Parlow², Cristina Iacoboaia¹ ¹Technical University of Civil Engineering, Romania; ²University Basel, Switzerland;</p>
<p>Verification and quality assessment of land surface water dataset in North China. Chuang Liu¹, Ruixiang Shi², Zhengxing Wang³ ¹Institute of Geographical Sciences and Natural Resources Research, CAS, China; ²Institute of Geographical Sciences and Natural Resources Research, CAS, China; ³Institute of Geographical Sciences and Natural Resources Research, CAS, China;</p>
<p>Assessment of Bucharest urban green land-cover changes through time-series satellite data <u>MARIA ZORAN</u>¹, ROXANA SAVASTRU¹, DAN SAVASTRU¹, MARINA TAUTAN¹, LAURENTIU BASCHIR¹, ADRIAN DIDA² ¹National Institute of R&D for Optoelectronics, Romania; ²Transilvania University of Brasov, Faculty of Silviculture and Forest Engineering, Brasov, Romania;</p>
<p>Development of an innovative land surface temperature retrieval method in areas of highly dynamic emissivity using thermal-infrared satellite data <u>Sascha Heinemann</u> Remote Sensing Research Group (RSRG), Germany;</p>
<p>Mapping mosquito habitat in the Caribbean using high and medium resolution imagery <u>Eva Maria De Clercq</u> CIRAD, France;</p>

<p>Multitemporal Remote Sensing for Urbanization Monitoring and Environmental Impact Assessment in China Jan Haas, Yifang Ban KTH Royal Institute of Technology, Sweden;</p>
<p>Multitemporal Sentinel-1A Data for Object-based Urban Land Cover Mapping: Preliminary Results Alexander Jacob, Yifang Ban KTH Royal Institute of Technology, Sweden;</p>
<p>WSTA-9: Landuse and Land Cover Change <i>Time:</i> Thursday, 18/Jun/2015: 4:00pm - 5:40pm · <i>Location:</i> E1 <i>Session Chair:</i> Nina S.N. Lam, Louisiana State University, United States of America <i>Session Chair:</i> Arnon Karnieli, Ben Gurion University, Israel</p>
<p>Monitoring human-induced land use and land cover changes in the Campos Amazônicos National Park (Brazil) and adjacent areas using NDVI trajectories Daniel Borini Alves^{1,2,3}, Fernando Pérez-Cabello^{1,2}, Marcos Rodrigues Mimbreno^{1,2} ¹University of Zaragoza (UNIZAR), Department of Geography and Spatial Management, Spain; ²Aragon University Research Institute in Environmental Science (IUCA), Spain; ³CAPES Foundation, Brazil;</p>
<p>A Characterization of the Status and Dynamics of Land Cover in the Active Okavango Catchment Based on Various MODIS Products and Climate Data Marion Stellmes, Achim Röder, David Frantz, Thomas Udelhoven, Joachim Hill Environmental Remote Sensing and Geoinformatics, Trier University, Germany;</p>
<p>Analysis of Land Use and Land Cover Changes in Mississippi Delta Using a Coupled Natural-Human System Framework Nina S.N. Lam, Yi Qiang, Kam-biu Liu Louisiana State University, United States of America;</p>
<p>Human activity impacts on the development of Yangtze estuarine wetland zhang lei institute of remote sensing and digital earth, China, People's Republic of;</p>
<p>Multi-annual Analysis of the Spatial Distribution of Biocrusts in the Northwestern Negev Sandfield, Israel Arnon Karnieli Ben Gurion University, Israel;</p>
<p>Spatio-Temporal Dynamics of Land-Use and Land-Cover in the Mu Us Sandy Land, China, Using the Change Vector Analysis Technique Arnon Karnieli¹, Zhihao Qin², Bo Wu³, Natalya Panov¹, Feng Yan³ ¹Ben Gurion University, Israel; ²Institute of Agro-Resources and Regional Planning, Chinese Academy of Agricultural Sciences, China; ³Institute of Desertification Studies, Chinese Academy of Forestry, China;</p>

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