

31st EARSeL Symposium and 34th General Assembly 2011

Mon, 30 May 2011 **2011-05-30**

14:00 Opening Ceremony

Chairman: Rainer Reuter

Welcome

Welcome of the Symposium Local Organizer

14:00 - 14:15

EARSeL Welcome

Welcome speech of the EARSeL Chairman

14:15 - 14:30

The International Charter for Disaster Mitigation

Michael Abrams, Ken Duda

14:30 - 15:00

Specific Challenges of High-Resolution Meteorological Assimilation of Remote Sensed Data: The ALADIN Example

Jean-Francois Geleyn

15:00 - 15:30

Remote Sensing Based Updating of Land Use/Land Cover

Peled Ammatzia

15:30 - 16:00

Coffee break

16:00 - 16:30

16:30 Land Use / Land Cover I

Chairman: Ioannis Manakos

Forest cover change monitoring with PROBA-V: Potentials and limitations on European terrain

Ioannis Manakos, Chariton Kalaitzidis, Ioannis Gitas, Mathias Schardt

16:30 - 16:45

Geoland2: Towards an operational delivery of a time-series of Biophysical Essential Climate Variables service for the GMES Land Monitoring Core Service

Bruno Smets, Roselyne Lacaze, Philippe Pacholczyk, Frederic Baret, Fernando Camacho, Patrick Claes

16:45 - 17:00

Update on the growing DMC constellation and applications in agriculture, forestry and disaster response

Gary Holmes, Paul Stephens

17:00 - 17:15

Land cover change estimation by object-based method in East Africa

Lukas Brodsky, Andreas Brink, Catherine Bodart, Celine Ernst, Katerina

Spazierova, Pierre Defourny

17:15 - 17:30

Targeted Land-Cover Classification

Diego Fernandez-Prieto, Mattia Marconcini

17:30 - 17:45

European validation of GMES FTS Soil Sealing Enhancement data

Gergely Maucha, György Büttner, Barbara Kosztra

17:45 - 18:00

CHANGE DETECTION USING AN EFFECTIVE OBJECT-BASED APPROACH

Javier Sanchez, Estibaliz Martinez, Agueda Arquero, Diego Renza

18:00 - 18:05

Analysis of man-made structure changes by means Dual Tree Complex Wavelet Transform (DT-CWT)

Diego Renza, Estibaliz Martinez, Agueda Arquero, Javier Sanchez

18:05 - 18:10

A Multi-Criterion Proposal for City Mobility in Bogotá Colombia

William Barragan, Aureliano Campos Orjuela, Alexander Martinez Rivillas,

Freddy Hernandez Camelo, John Freddy Vargas

18:10 - 18:15

16:30 **Imaging Spectroscopy**

Chairman: Mattia Crespi

Chlorophyll determination in silver Birch and Scots Pine from hyperspectral data

Lucie Kupkova, Marketa Potuckova, Zuzana Lhotakova, Jana Albrechtova,

Veronika Kopackova

16:30 - 16:45

The comparison of the spectrum modelling of different kinds of meadows

Anna M. Jarocinska

16:45 - 17:00

Towards Archaeologically Relevant Hyperspectral Sampling

Geert J Verhoeven, Michael Doneus, Christian Briese

17:00 - 17:15

**OPEN QUARRY DETECTION USING MULTISPECTRAL AND
HYPERSPETRAL DATA**

Konstantinos G. Nikolakopoulos, Evagelia Gioti

17:15 - 17:30

**Statistical analysis of field spectroradiometric measurements intended for
water quality monitoring in Asprokremmos Dam in Cyprus**

Christiana Papoutsas, Diofantos Hadjimitsis, Adrianos Retalis, Leonidas Toullos

17:30 - 17:45

**Modelling the morning surface temperature structure of the town Graz by
means of landcover classification and DAEDALUS ATM data**

Wolfgang Sulzer, Michael Wurm, Reinhold Lazar

17:45 - 18:00

**Development of Experimental Airborne Sensors for Satellite Calibration
and Validation**

18:00 - 18:05

**Hyperspectral reflectance remote sensing of viral infection in pepper plants
(Capsicum annuum L.)**

18:05 - 18:10

Tue, 31 May 2011 2011-05-31

08:30 Land Use / Land Cover II

Chairman: Zbigniew Bochenek

Determination of the aerosol optical thickness through the atmospheric path radiance component obtained from the application of the pseudo-invariant target atmospheric correction method.

Kyriakos Themistocleous, Diofantos Hadjimitsis, Adrianos Retalis, Nektarios Chrysoulakis, Dimitrios Alexakis

08:30 - 08:45

Cloud Detection in SEVIRI Images by Non-Homogeneous Temporal Markov Random Fields

Gemine Vivone, Roberto Conte, Rocco Restaino, Maurizio Longo, Paolo Addesso

08:45 - 09:00

Delimitation of nitrates pollution source areas on the base of vegetation indexes derived from MODIS images

Edyta Wozniak, Sylwia Nasilowska

09:00 - 09:15

WORLD WIDE WATCH BY EARTH OBSERVATION - Develop and Operate monitoring and early warning services on effective user demands

Bruno Smets, T. Jacobs, F. Coelst, B. Ooms

09:15 - 09:30

Land Cover changes in wetland ecosystem – case study Biebrza Valley, Poland

Katarzyna Dabrowska-Zielinska, Maria Budzynska, Konrad Turlej, Maciej Bartold

09:30 - 09:35

Assessment of evapotranspiration and soil moisture for Biebrza Wetlands using Thermal Remote Sensing and In-situ Data.

Katarzyna Dabrowska-Zielinska, Wanda Kowalik, Maria Budzynska, Iwona Malek

09:35 - 09:40

Phenological Patterns for Central Asia

Roman Bohovic, Doris Klein, Christopher Conrad

09:40 - 09:45

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Improvement of knowledge in remote sensing for management and HSE

benachir AB aniss hadj

09:45 - 09:50

Changes and instability

Ferenc Kovács

09:50 - 09:55

REMOTE SENSING FOR THE MODELLING THE DYNAMIC REPRESENTATION OF OLD URBAN TISSUES STUDY

benachir aniss hadj, benachir DB djawed

09:55 - 10:00

Coffee break

10:00 - 11:00

08:30 Radar Remote Sensing I

Chairman: Markéta Potůčková

MAPPING POTENTIAL OF COSMO-SkyMed AND TerraSAR-X SENSORS: DEFINITION OF AN IMAGE MATCHING STRATEGY

Andrea Nascetti, Paola Capaldo, Mattia Crespi, Francesca Fratarcangeli,
Francesca Pieralice

08:30 - 08:45

A NOVEL RADAGRAMMETRIC MODEL AND AN RPCS GENERATION STRATEGY: APPLICATION WITH COSMO-SkyMed AND TerraSAR-X IMAGERY

Mattia Crespi, Paola Capaldo, Francesca Fratarcangeli, Andrea Nascetti,
Francesca Pieralice

08:45 - 09:00

TerraSAR-X and ALOS/PALSAR Data Application to Landuse/Landcover Classification

Ali Mahmoud, Manfred Buchroithner

09:00 - 09:15

Multitemporal RADARSAT-2 Polarimetric SAR Data for Urban Land Cover Classification Using an Object-Based SVM

Yifang Ban, Xin Niu

09:15 - 09:30

Potential of PALSAR/ALOS dual images for land use/ land cover in Brazilian semi-arid landscape.

João Roberto Santos, Fabio Fernandes Silva

09:30 - 09:45

Urban block outlining in High-Resolution SAR images based on detection of linear features

Fabio Dell'Acqua, Gabriele Vercesi, Diego Aldo Polli

09:45 - 10:00

Fusion of optical and SAR images in Slant Range SAR Geometry

Dimitra Vassilaki, Charalambos Ioannidis, Athanassios Stamos

10:00 - 10:05

ALS Data Filtering and Classification in Sandstone Landscapes

Jakub Lysák, Markéta Potůčková

10:05 - 10:10

Deformation mapping in Northern Bohemian coal basin using InSAR

Ivana Hlavacova, Lena Halounova, Barbora Knechtlova

10:10 - 10:15

Coffee break

10:15 - 11:00

11:00 Keynote speaker

3D Laser Scanning

Costas Armenakis

11:00 - 11:30

11:45 Land Use / Land Cover III

Chairman: Matthias Braun

Using Decision Tree Based Multiclass Support Vector Machines for Forest Mapping

Petra M. Krahwinkler, Juergen Rossmann

11:45 - 12:00

Comparison of Automated Change Detection Methods for Disaster Areas

Manfred Ehlers, Daniel Tomowski, Sascha Klonus

12:00 - 12:15

A hybrid approach classification of remote sensing images

Luisa Maria Silva Gonçalves

12:15 - 12:30

European validation of land cover changes in CLC2006 project

George Büttner, Barbara Kosztra, Gergely Maucha

12:30 - 12:45

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Comparison of selected land cover nomenclatures and their interoperability

Jan Feranec, Monika Kopecka, Jan Otahel, Lubomir Solin, Lukas Brodsky, Tomas Soukup, Ivan Bicik, Jan Kolar, Lucie Kupkova, Premysl Stych

12:45 - 13:00

CENIA's activities in GMES, INSIPRE, SEIS and related projects

Simona Losmanova

13:00 - 13:15

Lunch

13:15 - 14:00

11:45 Radar Remote Sensing II

Chairman: Fabio dell'Acqua

ML Antenna Pattern Shape and Pointing Estimation in Synthetic Aperture Radar

Pietro Guccione, Andrea Monti Guarnieri

11:45 - 12:00

Fusion of airborne MTIonSAR and ancillary information for vehicle tracking

Angelo Aprile, Fabio Dell'Acqua, Tiziana Macrì Pellizzeri, Niccolò Ricardi

12:00 - 12:15

Mapping of Geo-hazard using SRTM and Geographic Information Systems in Helwan Governorate, Egypt

Hala A. Effat

12:15 - 12:30

2-PASS DIFFERENTIAL INTERFEROMETRY IN THE AREA OF THE ERVENICE CORRIDOR

Milan Borik

12:30 - 12:35

Lunch

12:35 - 14:00

14:00 Keynote Speaker

3D Urban Modelling

Vladimír Plšek

14:00 - 14:30

14:45 Land Use / Land Cover IV

Chairman: Lucien Wald

Modeling of canopy gap dynamics in mangrove forests using multi-temporal high resolution satellite data

Yasumasa Hirata, Ryuichi Tabuchi, Pipat Patanaponpaiboon, Sasitorn Pongparn, Reiji Yoneda, Yoshimi Fujioka

14:45 - 15:00

Assessment of land cover change in the Polish Carpathians over the last decades using Landsat data

Katarzyna Ostapowicz, Jacek Kozak

15:00 - 15:15

Cascaded satellite image classification for LULC maps production based in the Kullback-Leibler divergence

Joel Dinis, Hugo Carrão, Mário Caetano

15:15 - 15:30

An EO/GIS based participatory mapping experience for livelihood enhancement in Borana region, South Ethiopia

Christian Iasio, Massimiliano Rossi, Italo Rizzi, Diego Guidotti

15:30 - 15:45

A Modular Framework for the Comparison of Gradient-Based Multi-Spectral Edge Detectors

Benjamin Seppke, Leonie Dreschler-Fischer, Dennis Hamester

15:45 - 16:00

THE USE OF ARTIFICIAL INTELLIGENCE OPTIMIZATION ALGORITHMS IN UNSUPERVISED CLASSIFICATION

ÜMIT H ATASEVER, COŞKUN ÖZKAN, FİLİZ SUNAR

16:00 - 16:15

Comparative study of applications of satellite images with different spectral and spatial resolutions – three case studies (ragweed, toxic spill, waterlog)

György Surek, Gizella Nádor, Zsuzsanna Suba, Irén Hubik, Katalin Ócsai, Dávid Gera, Cecilia Török, Grácia Linda Tóth

16:15 - 16:20

Coffee break

16:20 - 17:00

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14:45 Land, Ice & Snow and Urban

Chairman: Jan Kropáček

SURFACE FLUCTUATION ABOVE THE SUBGLACIAL LAKE VOSTOK FROM ICESat

Leonid N Vasiliev

14:45 - 15:00

CLIMATE CHANGE AND USING WATER RESOURCES MANAGEMENT IN TAJIKISTAN AND CENTRAL ASIA

Georgy N Petrov

15:00 - 15:15

Processing chain for a near-realtime snow cover monitoring product at regional scale

Christian Steurer, Claudia Notarnicola, Roberto Monsorno, Anke Tetzlaff, Armin Costa, Luca Irsara, Nico Mölg, Thomas Schellenberger, Martial Duguay, Marc Zebisch

15:15 - 15:30

Analysis of icing cycle and snow distribution in a basin on the Tibetan Plateau from passive microwave and optical data

Jan Kropacek, Feng Chen, Sebastian Hoerz, Volker Hochschild

15:30 - 15:35

Data User Element DUE Permafrost: a spaceborne permafrost monitoring system

Birgit Heim, Annett Bartsch, Kirsten Elger, Sina Muster, Moritz Langer, Julia Boike, Jennifer Sobiech, Konstanze Piel

15:35 - 15:40

Estimating ice mass flux from the King George Island ice cap using SAR feature tracking

Hilke Gieseke, Ulrike Falk, Matthias Braun

15:40 - 15:45

Mapping glacier dynamics from multi-mission SAR satellite data

Matthias Braun

15:45 - 15:50

Improvement of the NPP VIIRS Fractional Snow Cover EDR for Creation of a Climate Data Records using MODIS and VIIRS

Igor L. Appel

15:50 - 15:55

Snow cover mapping using ENVISAT ASAR imagery in the conditions of the Czech Republic

Jana Souckova, Marketa Potuckova, Jan Jedlicka

15:55 - 16:00

Creating scenarios of urban sprawl using cellular automata to support planning and territorial management

Pedro Henriques

16:00 - 16:05

Shadow analysis in the urban area of Cologne using very high resolution optical satellite data

Frauke Becker, Gunter Menz

16:05 - 16:10

Validating Meteosat-derived surface solar irradiance in Mozambique

Philippe Blanc, Benoit Gschwind, Mireille Lefèvre, Lucien Wald

16:10 - 16:15

Supporting surface mass balance modeling on the King George Island ice cap by optical remote sensing

Franziska Kotzur, Falk Ulrike, Matthias Braun

16:15 - 16:20

Coffee break

16:20 - 17:00

17:00 Thermal RS and Culture Heritage posters

Chairman: Rudi Goosens

The applicability of DisTrad for downscaling MODIS land surface temperature products in urban areas using a multiple linear regressions.

Wiesam A. A. Essa, Johans van der Kwast, Boud Verbeiren, Okke Batelaan

17:00 - 17:15

A comparative analysis of day/night land surface temperature using MODIS products and mesoscale numerical modelling

Mohammad Sohrabinia, Peyman Zawar-Reza, Wolfgang Rack

17:15 - 17:30

Spatially Water Heat Flux using MODIS/terra data

Enner H. Alcantara

17:30 - 17:45

USING TIR DATA FOR SUBMARINE HYDROTHERMALISM MONITORING AROUND MILOS ISLAND

Konstantinos G. Nikolakopoulos

17:45 - 17:50

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Combined use of satellite Remote Sensing, GIS, and geophysical data, to archaeological research in Europos area, Macedonia (Northern Greece).

Dimitrios Oikonomidis, Alexandra Karamitrou, Gregory N Tsokas, Theodore Astaras

17:50 - 17:55

Exploring an ancient landscape in East Yorkshire

Peter Halkon

17:55 - 18:00

17:00 Coastal Zones and LU/LC posters

Chairman: Samantha Jane Lavender

Research of Feeding Mackerel in the Norwegian Sea and Her Environmental Conditions with Using of Airborne Remote Sensing Methods

Vladimir Borisivich Zabavnikov

17:00 - 17:15

Development of remote sensing algorithms for monitoring biomass of primary producers in alkaline-saline lakes from planktonic and benthic sources

Emma J Tebbs, David M Harper, John J Remedios, Sean Avery

17:15 - 17:30

Sentinel-3 Optical Level 2 Prototype Processor: development of land and water products including uncertainties.

Samantha Jane Lavender, Steve Emsley, Ludovic Bourg, Tim Nightingale, Ralf Quast, Martin Bates, Thomas Storm, Odile Hembise Fanton d'Andon, Gianni Sotis, Carsten Brockmann, Rabiah Nasir-Habeeb, Philippe Goryl, Sentinel-3 L2 Products and Algorithm Team

17:30 - 17:45

PINRO Airborne Research on Study of the White Sea Harp Seal Population Pup Production Abundance

Vladimir Borisivich Zabavnikov

17:45 - 17:50

ocOC - from Ocean Colour to Organic Carbon

Birgit Heim, Roland Doerffer, Paul P. Overduin, Hugues Lantuit, Jens Hoelemann, Heidi Kassens, Carolyn Wegner

17:50 - 17:55

Solar potential analysis in Lisbon using LiDAR data

Teresa Santos, Nuno Gomes, Miguel Brito, Sérgio Freire, Ana Fonseca, José António Tenedório

17:55 - 18:00

Investigation on Draining of Lake Amik and the Related Environmental Changes, by Using Remote Sensing Technology

Emre Özelkan, Z. Damla Uca Avci, Muhittin Karaman

18:00 - 18:05

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Tue, 31 May 2011 **Education and Training Workshop**

Open workshop for symposium participants

08:30

Oral Session 1

Remote Sensing in School and University

<http://www.conferences.earsel.org/program/show/26>

08:30 - 10:45

Coffee Break

10:15 - 10:45

10:45

Oral Session 2

Education and Training in School and University

<http://www.conferences.earsel.org/program/show/26>

10:45 - 12:30

Lunch Break

12:30 - 14:00

14:00

ESA/EARSeL Training Course Session 1

EduSpace and LeoWorks 4.0

<http://www.conferences.earsel.org/program/show/26>

14:00 - 15:45

Coffee Break

15:45 - 16:15

16:15

ESA/EARSeL Training Course Session 2

SEOS - EARSeL' e-learning tutorials for science education at high schools

<http://www.conferences.earsel.org/program/show/26>

16:15 - 17:30

Discussion on future educational programmes

17:30 - 18:00

Wed, 01 Jun 2011 2011-06-01

08:30 General Assembly

Coffee break

10:15 - 10:45

10:45 Keynote speaker

Operational Applications of Airborne Laser Remote Sensing in Forestry for Alpine Regions

Markus Hollaus

10:45 - 11:15

Break

11:15 - 11:30

11:30 Posters presentation

Chairman: Rosa Lasaponara

Object-based classification of satellite images merging multispectral information with multiscale panchromatic textural features

Consuelo Gonzalo-Martín, Mario Lillo-Saavedra

11:30 - 11:35

Study of trace gases emissions, by large forest fires, at different spatial scales, by means of satellite sensors

Abel Calle, José-Luis Casanova

11:35 - 11:40

Toward multiscale object-based images fusion

Mario Lillo-Saavedra, Consuelo Gonzalo, David Fonseca

11:40 - 11:45

Mapping earthquake damage from post-event only VHR SAR texture maps: zooming into poor estimation cases

Diego Aldo Polli, Fabio Dell'Acqua, Laura Candela

11:45 - 11:50

Spaceborne VHR SAR data for detection of sparse man-made features in wide-scale safety inspection after an earthquake

Fabio Dell'Acqua, Gianni Christian Iannelli, Diego Aldo Polli, Laura Candela

11:50 - 11:55

Monitoring of spring phenology of boreal coniferous forest with MODIS time-series

Kristin Boettcher, Mikko Kervinen, Mika Aurela, Olli-Pekka Mattila, Tiina Markkanen, Jouni Pulliainen

11:55 - 12:00

Endangered Cultural Heritage along the major rivers and adjacent wetlands in Croatia

vlasta begovic

12:00 - 12:05

Estimation of tree height from LiDAR data of a new DEM of the Czech Republic

Marketa Potuckova, Oldriska Sedlackova

12:05 - 12:10

Managing temporal data in military historical GIS

Attila Juhász

12:10 - 12:15

Evaluation of interpolation methods in InSAR DEM derivation from ERS tandem data

Jana Slacikova, Marketa Potuckova

12:15 - 12:20

Temporal Land Use Changes in the Background of Political Changes in Poland; a Case Study of Central Poland

Konstantinos Perakis, Rafal Pudelko, Artur Lopatka, Katarzyna Mizak, Athanasios Moysiadis, Christos Kampouris

12:20 - 12:25

Updating content of zoological maps using aerial photographs and terrain exploration.

Mieczyslaw Kunz, Maciej Sulek, Marek Larecki

12:25 - 12:30

Land cover changes of Pomerania using multitemporal cartographic and remote sensing data

Mieczyslaw Kunz

12:30 - 12:35

Solid waste landfill site selection using R.S. and GIS: a case study in north Sinai governorate, Egypt

Mohamed N Hegazy, Hala A Effat, Othman A Hassan

12:35 - 12:40

Object-based image analysis of pasture with trees and red mud spill

István László, Katalin Ócsai, Dávid Gera, Roberto Giachetta, István Fekete

12:40 - 12:45

Recognition and classification of unlawful landfills with multiresolution segmentation of satellite data

Vincenzo Barrile, Giuliana Bilotta

12:45 - 12:50

Lunch

12:50 - 13:45

13:45 Poster session

15:15 3D I

Chairman: Karsten Jacobsen

Monitoring of Buildings based on GeoEye-1, IKONOS and aerial image stereo pairs

Karsten Jacobsen, Abdalla Alobeid

15:15 - 15:30

Comparison of the Accuracies of DTM's Obtained from SRTM, Topographic Maps and ALOS PRISM

Cihan Uysal, Derya Maktav

15:30 - 15:45

Taking Computer Vision Aloft

Geert J Verhoeven

15:45 - 16:00

INTEGRATED 3D GEOMATICS FOR ARCHAEOLOGY: CASE STUDY MALTA

Alain De Wulf, Roald Docter, Cornelis Stal, Rudi Goossens, Timothy Nuttens, Nicholas Vella

16:00 - 16:15

Proposal of a standardization methodology for the DEM accuracy figures

Vittorio Casella, Marica Franzini, Barbara Padova

16:15 - 16:30

Coffee break

16:30 - 17:00

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15:15 Forest Fires

Chairman: Ioannis Z. Gitas

MODIS time series as a tool for monitoring fires and their effects on savanna bird diversity

Noam Levin, Sarah Legge, Bronwyn Price, Michiala Bowen, Emily Litvack, Martine Maron, Clive McAlpine

15:15 - 15:30

Fuel moisture content (FMC) estimation based on optical remote sensing data for fire risk assessments

Turkia Abdulkarem Almoustafa, Richard Armitage, Mark Danson

15:30 - 15:45

Evaluation of Radarsat Compact Polarimetry for Forest Fire Scar Detection

David G Goodenough, Hao Chen, Shane Cloude, Wen Hong, Yang Li

15:45 - 16:00

Cofee break

16:00 - 17:00

17:00 3D II

Chairman: Geert J. Verhoeven

Applying mobile laser scanning in environmental remote sensing

Sanna Kaasalainen, Antero Kukko, Harri Kaartinen, Kati Anttila, Anssi Krooks

17:00 - 17:15

Georeference of TerraSAR-X Images using Science Orbit Data

Dimitra Vassilaki, Charalambos Ioannidis, Athanassios Stamos

17:15 - 17:30

Improving traditional change detection with DSM for update cartography in urbanized areas after seismic events.

Valerio Baiocchi, Raffaella Brigante, Donatella Dominici, Francesca Giannone, Fabio Radicioni

17:30 - 17:45

SUITABILITY OF ALOS DSM FOR QUARRY MONITORING

Konstantinos G. Nikolakopoulos, Panagiotis I. Tsompos

17:45 - 18:00

Chemicomorphological characterization of Stromboli's plume by atmospheric lidar

Luca Fiorani, Francesco Colao, Antonio Palucci, Davod Poreh

18:00 - 18:15

17:00 Forestry

Chairman: Eugene Lopatin

Simulation of lidar return signal from a 2D Tree model

Manuel Fabiao Dionizio, Angela M Kim, John Trinder

17:00 - 17:15

Järvelja test stite for forestry remote sensing studies

Andres Kuusk, Mait Lang, Joel Kuusk

17:15 - 17:30

Connections between old-growth forests of Finland and Republic of Karelia, Russia along the border zone

Eugene Lopatin, Taneli Kolström, Timo Hokkanen

17:30 - 17:45

Change detection in the peri-urban forest of Thessaloniki after the big fire of 1997 using air photos and IKONOS imagery

Eleftheria K. Vrania, Miltiadis I. Meliadis, Christos G. Karydas, Ioannis Z. Gitas

17:45 - 18:00

Thu, 02 Jun 2011 2011-06-02

08:30 Culture Heritage

Chairman: Mario Hernandez

RECONSTRUCTION OF A MEDIEVAL WALL: PHOTOGRAMMETRIC MAPPING AND QUALITY ANALYSIS BY TERRESTRIAL LASERSCANNING

Cornelis Stal, Philippe De Maeyer, Alain De Wulf, Rudi Goossens, Timothy Nuttens

08:30 - 08:45

COMPARISON OF 3D ACCURACY OF TERRESTRIAL LASER SCANNING AND DIGITAL PHOTOGRAMMETRY: AN ARCHAEOLOGICAL CASE STUDY

Timothy Nuttens, Philippe De Maeyer, Alain De Wulf, Rudi Goossens, Cornelis Stal

08:45 - 09:00

Remote Sensing to Discover Archeology and Landscape History of the German Wadden Sea Area

Jörn Kohlus, Martin Gade

09:00 - 09:15

Bronze Age economies and landscape resources in the Kargaly steppe (Orenburg, Russia)

Carlos Fernández Freire, Antonio Uriarte González, M^o Isabel Martínez Navarrete, Juan M. Vicent García, M^o Isabel del Bosque González

09:15 - 09:30

LiDAR, Aerial and satellite remote sensing in Vignale

Rosa Lasaponara, Y. Backe-Forsberg, R. Holmgren, N. Masini

09:30 - 09:45

Multitemporal analysis and archaeogeophysical methods to monitor and face the archaeological looting: the experience in Nasca (Southern, Peru)

Nicola Masini, Maria Danese, Rosa Lasaponara, Giuseppe Orefici

09:45 - 10:00

Integrated Non invasive remote sensing techniques for investigating buried archaeological structures in Tiwanaku (Bolivia)

E. Rizzo, Rosa Lasaponara, N. Masini, G. Orefici

10:00 - 10:15

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Satellite Remote Sensing in Archaeology : A comprehensive overview

Rosa Lasaponara, Nicola Masini

10:15 - 10:30

Remote Sensing techniques in archaeology.

Jolanda Patruno, Nicole Dore, Mattia Crespi, Salvatore Piro, Francesco Sarti

10:30 - 10:45

Coffee break

10:45 - 11:15

11:15 Urban RS

Chairman: Carsten Juergens

High spatial resolution analysis of night lights as an indicator of spatial inequalities

Noam Levin, Yishai Duke

11:15 - 11:30

Study and analysis of urban patterns and urban growth of three different areas in the city of Thessaloniki, Greece using aerial photos, satellite images and cartographic data.

Anastasios Stamnas, Aikaterini Stamou, Olga Georgoula, Petros Patias

11:30 - 11:45

Urban riparian zones as sustainability indicators

Ellen Banzhaf, Alexis Vásquez, Pamela Smith

11:45 - 12:00

New sensors, wide challenges for land cover mapping of urban environments in developing countries

Cristina D Henriques, Jose Antonio Tenedorio

12:00 - 12:15

Potential Open Space Detection and Decision Support for Urban Planning by Means of Optical VHR Satellite Imagery

C. Jürgens, A. Siegmund, D. Maktav, Filiz Sunar, H. Esbah, T.B. Levent, C Uysal, K. Kalkan, O.Y. Mercan, I. Akar, H. Thunig, N. Wolf

12:15 - 12:30

Break

12:30 - 12:45

Istanbul 's green belt.

Josef D. Gspurning, Wolfgang F. Sulzer

12:45 - 13:00

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Land-use dynamics as major driver for changing thermal patterns in the urban environment.

Ellen Banzhaf, Ellen Banzhaf, Sonia Reyes Paecke, Patricia Ruiz de Vinaspre
13:00 - 13:15

Exploring GMES Urban Atlas service potential to support sustainable management of cities and regions

K. Jupová, Tomas Soukup
13:15 - 13:30

Analyzing urban growth through autocorrelation techniques and urban simulation models

Gabriele Nolè, Maria Danese, Federico Martellozzo, Rosa Lasaponara,
Beniamino Murgante
13:30 - 13:45

Break

13:45 - 13:50

13:50 Closing Ceremony

Chairman: Rainer Reuter

Farewell of EARSeL Chairman and Vice Chairman

13:50 - 14:10

Lunch

14:10 - 15:00