Preliminary Programme

25th EARSeL Symposium

6 - 11 June 2005
PORTO, Portugal

Organized by:

Sponsored by:

31 May 2005
Monday – 6th June

09:00-12:30 – Registration at the DMA Building (Rua Campo Alegre, 687)
09:00-12:30 – Council Meeting

12:30-14:00 – Lunch

14:00-14:30 – Registration at the DMA Building (Rua Campo Alegre, 687)
14:30-14:45 – Opening – Room (ROOM D)
14:45-15:30 – Ian Dowman (President ISPRS), *Is Remote Sensing delivering benefits for society?*
16:15-16:40 – Coffee Break
16:40-17:20 – Keith McCloy, *The Analysis of Temporal Image Data - Where from and where to.*

18:30-20:00 – Welcome Reception - Eng. António de Almeida Foundation
Tuesday – 7th June

08:30-09:00 – Registration

Session 1A. Agriculture Forestry and Vegetation (ROOM A)
   Chairman: Zbigniew Bochenek

09:00-09:20 – D. Haboudane, et al.. Retrieval of biophysical crop variables using radiative transfer models and ground-based empirical relationships


09:40-10:00 – Julia Yagüe, Pilar Garcia, Ma Eugenia Perez. A Remote Sensing survey of vegetation communities adjacent to Myall Lakes, NSW, Australia

10:00-10:20 – B. Café, R. Tavares, L. Pessanha. The summer water stress of the Portuguese forest

Session 2. Geological Hazards (ROOM B)
   Chairman: Freek van der Meer

09:00-09:20 – S. Marsh, H. Modaressi, R. Helz, M. Paganini and R. Missotten. Integrated Global Observation of Geohazards: Implementation via IGOS and GEOSS


09:40-10:10 – Ivana Capková, Ján Kianicka. SAR interferometry: Detecting small landslides in the area of Northern Bohemia

10:10-10:20 – F. van der Meer, M. van der Meijde, H. van der Werff, J. Kooistra. Detection of hazardous gas leakage from pipelines using anomalous spectral reflectance features of vegetation

Session 3. Atmosphere (ROOM C)
   Chairman: Eberhard Parlow

09:50-10:10 – Nuno César dos Santos Grosso. Retrieving aerosol optical thickness from a MODIS dataset for the Lisbon metropolitan area using a contrast reduction method

10:10-10:30 – Gergely Rigo, Eberhard Parlow, David Oesch. Validation of satellite longwave emission with in-situ measurements and modeling of net radiation during BUBBLE
10:30-11:00 – Coffee Break

Session 1B. Agriculture Forestry and Vegetation (ROOM A)
Chairman: Zbigniew Bochenek

11:00-11:20 – João M. N. Silva, José M. C. Pereira. Burned area mapping in Africa with SPOT-VEGETATION imagery: accuracy assessment with Landsat ETM+ data, influence of spatial pattern and vegetation type

11:20-11:40 – Marcin Sobczak, et al.. Discrimination of high-mountain vegetation species by spectral features analysis. Case study of Tatra Mountains

11:40-12:00 – G. Macelloni, et al.. Retrieval of crop biomass from multi-frequency polarimetric SAR data

12:00-12:20 – Jean-Claude Berges, Bernard Lacaze, M. Faouzi Smiej. A comparison of NOAA-AVHRR, SPOT-VEGETATION, and MSG-SEVIRI for continental scale vegetation monitoring

Session 4A. Image Processing Techniques (ROOM B)
Chairman: J. Bioucas Dias

11:00-11:20 – Radja Khedam, et al.. Evidential theory for multispectral classification of remotely sensed imagery


11:40-12:00 – Qiaoping Zhang, Isabelle Couloigner. Cluster analysis for road network extraction from multispectral imagery


12:30-14:00 – Lunch
**Session 5. World Heritage** (ROOM A)
Chairman: Mario Hernandez

14:00-14:20 – Rudi Goossens, et al. *Estimation of the permafrost area in the Altai Mountains (Russia) in the frame of the preservation of the “kourgan” graves*


14:40-15:00 – Henri Paul Eloma Ikoleki. *Field use of the RS products for the WHS management in the Democratic Republic of Congo (DRC)*


15:20-15:40 – A. Gruen, F. Remondino. *3D visualization of the Bamiyan Valley from high-resolution satellite imagery*

**Session 6. Land Use Land Cover** (ROOM C)
Chairman: Matthias Braun

14:00-14:20 – António Araújo, Mário Caetano. *Comparing land cover products CLC2000 and MOD12Q1 for Portugal*


14:40-15:00 – Jerzy Chmiel, et al. *The evaluation of usability of VHR satellite images for land cover/land use identification in agricultural landscape*

15:00-15:20 – Mário Caetano, Fernando Mata. *Accuracy assessment of CLC2000 for Portugal*

15:20-15:40 – Gergely Maucha, George Büttner. *Validation Of The European Corine Land Cover 2000 Database*

**Session 4B. Image Processing Techniques** (ROOM B)
Chairman: J. Bioucas Dias

14:00-14:20 – A. Fdez-Sarría, L.A. Ruiz, J.A. Reci. *Study of methods based on wavelets for texture classifications of high resolution images*

14:20-14:40 – Gonçalo Valadão, José M. Bioucas-Dias. *Phase unwrapping via graph cuts*

14:40-15:00 – M. Durrieu, L.A. Ruiz, A. Balaguer. *Analysis of geostatistical parameters for texture classification of satellite images*

15:00-15:20 – José M. P. Nascimento, José M. B. Dias. *Mixture of dirichlet sources applied to hyperspectral unmixing*
15:30-16:00 – Coffee Break

16:00-17:00 – Poster Presentations (1 slide, 2min. for each poster)

**Poster Session A (ROOM A)**

- Müfit Çetin, et al.. *Hyperspectral-based characterization of different vegetation species in Sundiken Mountain, Turkey*
- N. Musaoglu, et al.. *Assessment of forest degradation by means of RS data*
- M. Trombetti, G. Amatulli, R. Lasaponara. *The use of multi-temporal MODIS data for burnt area detection in the Italian peninsula through a classification tree approach*
- Sinan Bacha. *Forest resources inventory using RS in Tunisia*
- Agata Hoscilo. *Evaluation of plant regeneration after fire at wetlands area using RS data*
- Magdalena Wrzesien, et al.. *Estimation of leaf area index in dwarf montaine pine using hyperspectral data*
- Carvalhais N. et al.. *Scale impact in net ecosystem productivity estimations*
- Iain D. Cameron, et al.. *SAR for inventory and height retrieval of neotropical savanna vegetation*
- R. Kancheva, D. Borisova. *Agricultural ground-level spectral modeling in support of RS data interpretation*
- H. Gonca Coskun, Ahmet Öztopal, Semih Ekercin. *Water assessment from satellite data by use of genetic algorithms*
- Oluic M, et al.. *RS and geophysical survey in site investigations for special waste disposal – Case study Trgovska Gora (Croatia)*
- Benoît Gschwind, et al.. *SoDa: a web service delivering solar radiation information*
- Mohamad Rukieh. *The role of RS techniques in water studies*
- Oliveira P.A., et al.. *Remote Sensing and GIS for water district management: the Caia network case study*
- Halounová, L. Junek, P., Petruchová, J.. *Vegetation indices – tools for development evaluation in reclaimed areas*
• García-Gigorro, S. et al.. *Land use classification in Spain using MERIS data*

• Filiz Bektas Balcik, Cigdem Goksel. *Analysing and mapping of Bozcaada Island land cover by means of RS and GIS integration*

• Jorge Rocha, et al.. *use/cover maps by RS and ancillary data integration in a GIS environment*

• Stanislaw Lewinski. *Land use classification of ASTER image – Legionowo test site*

• Borisova D., R. Kancheva. Spectral mixture analysis of land cover

• L. Bugalho, et al.. Analysis of NDVI during summer period over Portugal

• Corine Davids. *Quantification of changes in landcover following the Chernobyl accident, using multi-temporal Landsat imagery*

• S. Horion, et al.. *Relative soil moisture index derived from the Belgian crop growth monitoring system and SPOT-VGT NDWI for the crop water stress monitoring in Belgium*

• B. Lounis, A. Belhadj Aissa. *Pollution signature of water quality using RS data*

• C. Karydas, et al.. *Environmental Status/ Impact Assessment associated to olive farming and olive oil production in Crete, Greece*

**Poster Session B (ROOM B)**

• Mario Lillo Saavedra, Consuelo Gonzalo Martin. *Objective determination of the degradation level of the multispectral and panchromatic images for fusion by means of the à trous algorithm*

• Kaya, S., Saroglu, E., Musaoglu, N.. *Vegetation – Impervious – Soil (VIS) Model: Defining earthquake damage in urban area by means of RS data*

• Saroglu, E., Kaya, S., Ormeci, C.. *Analysis of geometric accuracy of Landsat-6 TM and IRS 1D data by means of DGPS and map data*

• Ana Fonseca, João Casaca, Miguel Baio. *Assessment of positional quality of digital orthorectified images*

• K. Shahid Khurshid, et al.. *Retrieval of At-Surface reflectance from EO-1 Hyperion Hyperspectral data*

• Zsofia Kugler, Arpad Barsi. *Segmentation approach of aerial images to support flood risk analysis in Hungary*

• Wen-Ya Chiu, Isabelle Couloigner. *Fuzzy segmentation for wetland mapping*

• Marco Giardino, et al.. *Multitemporal terrain analysis through DEMs comparison: a geological case study*

• Doyno Iv. Petkov D, George St. Georgiev, Hristo St. Nikolov. *A Data Acquisition Field Network for Land State Monitoring*
• Manuel Arias Ballesteros, et al.. Analysis of the mean sea level and its trend in the Iberian Atlantic and Mediterranean Sea from altimeter data and the PSMSL database
• Couto, A.B., et al.. Spatial variability of SST and chlorophyll a concentration at Sedlo and Seine seamounts, using AVHRR and SeaWiFS imagery
• Litovchenko Konstantin Ts., Kostianoy A.G., Lavrova O.Yu. Operational monitoring of oil spills in Baltic sea using ENVISAT ASAR
• Andrey G. Kostianoy. Satellite monitoring of the Caspian and Black Seas environment
• A.M. Pérez Burgos, A. Calle Montes, J.L. Casanova Roque. Estimation of Sea Surface Temperatures from MODIS Data
• Boularbah Souissi, et al.. Polarimetric response for target characterization
• Mounira Ouarzeddine, et al.. Noise filtering in the interferometric phase
• Ana Prieto Blanco, et al.. Satellite estimation of surface/atmosphere parameters: a sensitivity study
• Sylvain Bidaut, Thierry Ranchin, Lucien Wald. Mapping the aerodynamic roughness length using SAR data
• Jose Antonio Tenedorio, et al.. Great Lisbon metropolitan area land use/land cover characterization through multi-temporal and multi-resolution VIS components analysis
• Parmegiani N., Poscolieri M.. Study of the relations of the ancient communities with landscape in the South and West sides of the Sevan Lake area (Armenia)
• R. Guillande. Monitoring of Human activity pressure on natural and cultural sites in Libya and Madagascar
• G. Csaki. Introduction of digital technologies to the documentation and study of environ. effects to World Heriatage Monuments in the last two decades. on the base of case studies (Graveyard of Thebes, Egypt and Angkor, Cambodia)
• Katarzyna Osinska-Skotak. Influence of atmospheric correction on determination of lake water quality parameters based on CHRIS/PROBA images
• Katarzyna Osinska-Skotak, et al. Possibilities of lake water quality monitoring based on CHRIS/PROBA superspectral data
• Gomez-Enri, J., et al.. The retracking of ocean parameters in the Mediterranean Sea and the surrounding area of the Iberic Atlantic using RA-2 Envisat data

17:00-18:00 – Interactive Poster Session (ROOM P)
International Journal of Remote Sensing

EDITOR-IN-CHIEF:
A. P. Cracknell, Division of Electronic Engineering and Physics, University of Dundee, Dundee DD1 4HN, UK. Email: a.p.cracknell@dundee.ac.uk

This Journal is concerned with the science and technology of remote sensing and the applications of remotely sensed data in all major disciplines. Principal topics are: data collection, analysis, interpretation and display; surveying from space, air and water platforms; sensors; image processing; use of remotely sensed data; economic surveys and cost-benefit analyses. The Journal contains primary papers on basic science, techniques and applications, and a section of Remote Sensing Letters containing material which merits fast publication. Many papers feature illustration in colour.

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Wednesday – 8\textsuperscript{th} June

Session 7. Data Fusion (ROOM A)
Chairman: Lucien Wald

08:30-08:50 – A. Bouakache, et al.. Characterisation of urban region of Algiers (Algeria) by multisource satellite images fusion using Dempster Shafer evidence theory

08:50-09:10 – F.W. Acerbi-Junior, et al.. MODIS and Landsat TM image fusion using the SIFuLAP method for mapping the Brazilian savannas (Cerrado)

09:10-09:30 – Meenakshisundaram. V, Couloigner. I. Quality assessment of fusion methods for high resolution images

09:30-09:50 – Bruno Aiazzi, et al.. MTF-tailored multi-resolution analysis for fusion multispectral and panchromatic images

09:50-10:10 – Luciano Alparone, et al.. The curvelet transform for fusion of very-high resolution multispectral and panchromatic images

10:10-10:30 – Lucien Wald. Image quality: the conclusions of the “Data Fusion” workshop of 2004

Session 8. Environmental Applications (ROOM B)
Chairman: Walter Debruyn

09:00-09:20 – Alexander Siegmund, Simone Naumann. Modelling of settlements-dynamics by object-oriented image and change detection analysis

09:20-09:40 – Pedro Lopes, et al.. Monitoring mosquito-borne diseases through Landsat images in Portugal

09:40-10:00 – Stefan Lang, Elisabeth Schöpfer, Peter Zeil. Using object-based image analysis in the context of environmental reporting

10:00-10:20 – Ferdinand Bonn, et al.. Spaceborne observation and modeling of erosion and non-point source pollution in agricultural catchments draining into lakes

10:20-10:40 – Andrea Patrono, Asunción Saldaña López. A proposal for a landscape integrated classification
**Session 9. Hydrology** (ROOM C)

Chairman: Mário Caetano

09:00-09:20 – Carsten Montzka. *Combining agricultural economic and hydrological models with the aid of RS data*

09:20-09:40 – Anne M. Jochum, et al. *Space-assisted irrigation management: an operational perspective*

09:40-10:00 – B. Café, et al. *Potential use of MERIS to calculate irrigation necessities*

10:00-10:20 – Anatoly Shutko, et al. *Passive Microwave Radiometry for Levee Monitoring*

10:20-10:40 – Aboudagga Nader, et al. *Simulations by cellular automata of the floods in littoral lagoon areas*

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10:30-11:00 – Coffee Break

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**Session 10. High Resolution Data** (ROOM A)

Chairman: Peter Winkler

11:00-11:20 – R. Lasaponara, N. Masini. *QUICKBIRD-based analysis for archaeological investigations*

11:20-11:40 – Fabio Volpe, Livio Rossi. *Use of QUICKBIRD satellite data for natural, semi-natural and urban environments*

11:40-12:00 – Wieslaw Wolniewicz. *Geometrical capabilities of VHRS data*

12:00-12:20 – G. Csomai, et al. *Evaluation of high and very high resolution images for remote sensing control of area-based subsidies and land parcel identification system in Hungary*
Session 11A. Oceanography (ROOM B)
Chairman: Joana Fernandes

11:00-11:20 – C. Lázaro, et al.. *Geostrophic currents in the Northeast Atlantic derived from operational altimetry missions*

11:20-11:40 – S.M. Barbosa, et al.. *Comparison of sea level observations in the N. Atlantic from satellite altimetry and tide gauges*

11:40-12:00 – M. J. Fernandes, et al.. *Available satellite altimetry data sets – Implications on oceanographic studies*

12:00-12:40 – Quaresma dos Santos, José da Silva. *Non-linear ocean internal waves observed near Nazaré submarine canyon head*

12:20-12:40 – Couto, A.B., et al.. *Variability of SST and ocean colour on two seamounts of the NE Atlantic, using AVHRR and SeaWiFS imagery*

Session 12. Physical Processes (ROOM C)
Chairman: Preben Gudmandsen

11:00-11:20 – S. Pallotta, et al.. *Aggregation of the thermo-optical properties for a rugged heterogeneous surface in the infrared domain: a multi-scale model*

11:20-11:40 – Vanessa Heinzel, et al.. *The influence of illumination geometry on the classification accuracy in urban areas*

11:40-12:00 – Alexandra L. Nunes, André R.S. Marçal. *Atmospheric correction of ASTER VNIR data over turbid coastal waters*

12:00-12:20 – Corinne Frey, Gergely Rigo, Eberhard Parlow. *Investigation of the daily urban cooling island (UCI) in two coastal cities in an arid environment: Dubai and Abu Dhabi (U.A.E.)*

12:30-14:00 – Lunch
**Session 13. Land Degradation and Desertification (ROOM C)**

Chairman: Bernard Lacaze

14:10-14:30 – A. Bannari, et al.. *Fraction crop residue cover mapping using hyperspectral hyperion imagery and linear spectral mixture analysis*


**Session 14. Urban (ROOM A)**

Chairman: Carsten Juergens

13:40-14:00 – Marc Binard et al.. *The usefulness of VHR images for public administrations in an urban hilly region*

14:00-14:20 – Tim Van de Voorde, William De Genst, Frank Canters. *Sub-pixel mapping of impervious surfaces from Landsat ETM+ data using reference proportions derived from VHR data*

14:20-14:40 – Koen C. Mertens, et al.. *Sub-pixel mapping: a comparison of techniques*

14:40-15:00 – Evelyne Frauman, Eléonore Wolff. *Change detection in urban areas using Very High Spatial Resolution satellite images. Case study in Brussels: locating main changes in order to update the Urban Information System (UrbIS) database*

**15:00-16:00 – General Assembly (ROOM E)**

16:00-16:30 – Coffee Break

16:30-23:00 – Boat Trip, Port Wine Cellar Visit and Symposium Dinner
For more than thirteen years, Eurimage has provided global satellite digital and photographic data, both directly to end customers and through a network of more than 150 expert Application Providers world-wide. Products include visible and infrared optical data and radar, offering a variety of mission and sensor types to meet the widest range of user needs.

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info@eurimage.com
THURSDAY – 9th June

Session 15A. 3D Remote Sensing (ROOM C)
Chairman: Karsten Jacobsen

09:00-09:20 – Karsten Jacobsen. Comparative analysis of space image orientation

09:20-09:40 – Simon Kay, et al.. Quality checking of DEM derived from satellite data (SPOT and SRTM)

09:40-10:00 – Kervyn de Meerendré M., Goossens R., Ernst G.G.J.. Comparative Analysis of ASTER-derived DEM and SRTM DEM for Morphological Study of Volcanic Terrains

10:00-10:20 – Nicolaos Sifakis, et al.. 3D mapping of air pollution cloud using high spatial resolution EO data

Session 17. Temporal Analysis (ROOM B)
Chairman: Keith McCloy

09:00-09:20 – Leonid Vasiliev.. Perturbation in global precipitation from multi-temporal RS observation

09:20-09:40 – Rob Dekker. SAR change detection techniques and application

09:40-10:00 – Simonetto Elisabeth, et al.. Urban subsidence seen by DiffinSar: temporal deformation series derived from a least-squared technique

10:00-10:20 – Paulo Gonçalves, et al.. Land Cover Classification Support Vector Machine applied to MODIS Imager.

10:30-11:00 – Coffee Break

Session 15B. 3D Remote Sensing (ROOM C)
Chairman: Karsten Jacobsen


11:20-11:40 – Christodoulou Konstantinos, et al.. Accuracy evaluation of DEM and orthoimages derived from aerial stereo photos and Quick Bird images

11:40-12:00 – R. Tapia, R. Goossens. DEM and orthoimage generation from ASTER L1B images for remote areas
Session 16. New Sensors & Instruments (ROOM B)

Chairman: Eberhard Parlow

11:00-11:20 – N. Lewyckyj, J. Everaerts. The Pegasus project: using Stratellites for Environmental Earth observation

11:20-11:40 – Cavalli R. M., et al.. Comparative evaluation of MIVIS and Hyperion hyperspectral data (0.4-2.4 μm) on the Pollino National Park (Italy)

12:30-14:00 – Lunch

LOCATION: REITORIA AUDITORIUM (Rua D. Manuel II)

14:00-15:00 – Carsten Brockman (Brockmann Consult), MERIS Products - getting, understanding and using them for open oceans and coastal zone applications

15:15-16:15 – Delilah Al Khudhairy (Joint Research Centre), Tsunamis: Characteristics, early warning systems and information needs of relief response and post-recovery operations

16:15-16:45 – Closing Session
### 25th EARSeL Symposium, General Assembly and Workshops

**6-11 June 2005**

**Faculdade de Ciências, Universidade do Porto**

Departamento de Matemática Aplicada  
Rua do Campo Alegre, 687  
4169-007 Porto, Portugal

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| **25th EARSeL Symposium**  
Global Developments in Environmental Earth Observation from Space | | | 2nd Workshop  
Remote Sensing of the Coastal Zone | | |
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25th EARSeL Symposium
6 - 11 June 2005 - PORTO, Portugal
www.fc.up.pt/earsel2005

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