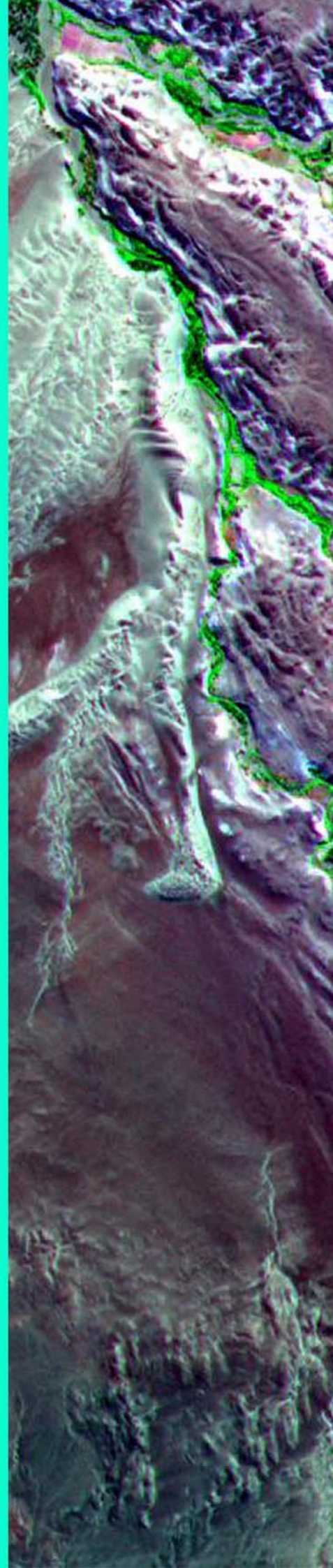


## **33rd EARSeL Symposium**

### ***"Towards Horizon 2020: Earth Observation and Social Perspectives"***

**3-6 June 2013 - Matera, Italy**

#### **PROGRAMME**





Programme of the 33rd EARSeL Symposium. Matera, June 3-6, 2013

| TIME        | Monday, June 3rd - a.m.  |  |   |  |
|-------------|--|--|---|--|
| 8:30-8:45   |  |  |   |  |
| 8:45-9:00   |  |  |   |  |
| 9:00-9:15   | Registration   |  |   |  |
| 9:15-9:30   |  |  |   |  |
| 9:30-9:45   | Symposium Opening - Mediateca, Hall A  | <b>WELCOME</b> : Vito De Filippo (President of Basilicata Region), Salvatore Adduce (Mayor of Matera), Mauro Fiorentino (Rector of University of Basilicata), Vincenzo Lapenna (Director of CNR-IMAA), |   |  |
| 9:45-10:00  |  |  |   |  |
| 10:00-10:15 |  |  |   |  |
| 10:15-10:30 |  |  |   |  |
| 10:30-10:45 |  | <b>OPENING REMARKS:</b> Rosa Lasaponara (CNR-IMAA, EARSeL), Ioannis Manakos (President of EARSeL), Nicola Masini (CNR-IBAM)  |   |  |
| 10:45-11:00 | Coffee Break   |  |   |  |
| 11:00-11:15 |  |  |   |  |
| 11:15-11:30 |  |  |   |  |
| 11:30-11:45 | <b>Keynote 1: Michael Rast (ESA)</b>   |  |   |  |
| 11:45-12:00 |  |  |   |  |
| 12:00-12:15 | <b>Discussion and round table with stakeholders and local authorities</b>                |  |   |  |
| 12:15-12:30 |  |  |   |  |
| 12:30-12:45 | Session 1: "Thermal Remote Sensing" - Mediateca, hall A -<br>Chairperson : Carmine Serio | Session 2: "Hydrology" - University, hall B<br>Chairperson : Vincenzo Lapenna  | Session 3: "Developing Countries" - University, hall C -<br>Chairperson : Nicola Masini | <b>O. Rozenstein</b> , A. Karnieli , <i>Characterizing Desert Environment Land-Cover Using LWIR Spectroscopy and Remote Sensing</i>  |
| 12:45-13:00 |  |  |   | S. Pascucci, M. Daraio, A. Palombo, S. Pignatti, F. Santini, <b>G. Laneve</b> , <i>TASI-600 high resolution airborne thermal data for accurate materials detection in urban scenarios</i>              |
| 13:00-13:15 |  |  |   | M. Carlotti, <b>B. M. Dinelli</b> , E. Papandrea, E. Castelli, <i>Study of the performance of a new-generation IR limb sounder</i>   |
| 13:15-13:30 |  |  |   | M. Mira, <b>A. Oliso</b> , D. Courault, O. Marloie, P. Guillevic, <i>Impact of surface emissivity and atmospheric conditions on surface temperatures derived from landsat 7 brightness temperature</i> |
| 13:30-13:45 |  |  |   |  |
| 13:45-14:00 | LUNCH  |  |   |  |
| 14:00-14:15 |  |  |   |  |
| 14:15-14:30 |  |  |   |  |
| 14:30-14:45 |  |  |   |  |
| 14:45-15:00 |  |  |   |  |

| TIME          | Monday, June 3rd - p.m.  |   |   |
|---------------|--|---|---|
| 15:00-15:20   | Keynote Session<br>Mediateca, Hall A   | <b>Keynote 2: Enrico Saggese</b> (President of Italian Space Agency), <b>A focus on the Italian Space Agency activities</b>   |   |
| 15:20-15:40   |  | <b>Keynote 3: Enrico Brugnoli</b> (Director of CNR-Department "Scienze del sistema Terra e Tecnologie per l'Ambiente")  |   |
| 15:40-16:00   |  | Discussion and round table with stakeholders and local authorities  |   |
| 16:00-16:15   | Opening of Exhibition "ARCHAEO_SAT: from Space a window on the Past" - Mediateca                 |   |   |
| 16:15-16:30   |  |   |   |
| 16:30-16:45   | Coffee Break   |   |   |
| 16:45-17:00   |  |   |   |
| 17:00-17:15   | Session 4 : "Space technology and missions" - Mediateca, Hall A<br>Chairperson : Enrico Brugnoli | <b>F. C. Hélière</b> , N. Gebert, F. Fois, Chung-Chi Lin, <i>New mission selected for the 7th Earth Explorer Mission</i>  | <b>C. Rossi</b> , M. Eineder, Th. Fritz, P. d'Angelo, P. Reinartz, <i>Quality assessment of TanDEM-X Raw DEMs oriented to a fusion with CartoSAT-1 DEMs</i>   |
| 17:15-17:30   |  | M. Amoroso, I. De Feis, G. Masiello, C. Serio, <b>S. Venafra</b> , P. Watts, <i>Spatio-temporal constraints for emissivity and surface temperature retrieval: preliminary results and comparisons for SEVIRI and IASI observation</i>   | <b>K. Jacobsen</b> , <i>Characteristics of Airborne and Spaceborne Height Models</i>  |
| 17:30-17:45   |  | G. Nádor, <b>I. László</b> , <i>Comparative analysis of Pleiades and other VHR images in quantitative and visual evaluation</i>   | <b>G. Niço</b> , A. Di Pasquale, M. Corsetti, P. Guccione, A. Lugli, M. Nicoletti, M. Zonn, <i>Ground-based SAR interferometry as a supporting tool in natural and man-made disasters</i>   |
| 17:45-18:00   |  | <b>S. J. Baillarin</b> , C. Dechoz, Th. Tremas, C. Isola et al., <i>SENTINEL-2: Image quality, Level-1 Products and Processing Performance</i>  | Th. Toutin, P. Capaldo, M. Crespi, F. Fratarcangeli, F. Pieralice, A. Nascetti, <i>DSMs generation from COSMO-SkyMed, Radarsat-2 and TerraSAR-X imagery on Beauport (Canada) test site: evaluation and comparison of different radargrammetric approaches</i> |
| 18:00-18:15   |  | <b>E. Lopinto</b> , C. Ananasso, <i>The Prisma Hyperspectral Mission</i>  | <b>S. Stramondo</b> , <i>The role of satellite earth observation in geohazard: the state-of-the-art and future expectations</i>   |
| 18:15-18:30   |  | <b>Danbi J Lee</b> et al., <i>Modeling and observation of heat losses from building. The impact of geometric details in 3D models of buildings</i>  | <b>P. Milillo</b> , C. Serio, <i>Persistent scatterer Interferometry based on COSMO-SkyMed imagery</i>  |
| 18:30-18:45   | Poster Session 1 - Mediateca   | <b>C. Uribe, C. Huber, M. Lafave, T. Marié, C. Vignolles, L. M. Pérez, H. Yesou, J. Maxant</b> , <i>Exploitation of HR and VHR data for epidemiological studies</i> // H. Giraud, <b>J. Maxant</b> , S. Clandillon, C. Meyer, P. De Fraipont, <i>Green infrastructure mapping within an urban context using Pleiades HR over Strasbourg</i> // M. Caspard, A. Selle, A. Durand, C. Tinel, H. Yesou, P. De Fraipont, <b>J. Maxant</b> , <i>Forest regeneration monitoring based on HR and VHR imagery</i> // A. Modzelewska, P. Pochrybniak, M. Mostowski, <b>A. M. Jarocinska</b> , <i>The vegetation condition changes near Chernobyl based on Landsat TM</i> // <b>M. Tomaszewska</b> , M- Stolarska, Z. Bochenek, <i>Monitoring of surface waters of mountainous Polish river with the use of MONERIS and SWAT models</i> // <b>S. Szporak-Wasilewska</b> , T. Okruszko, J. Szatyłowicz, S. Ignar, <i>Application of the Surface Energy Balance System Model (SEBS) for mapping</i> // <b>M. Krowczynska</b> , E. Wilk, <i>Aerial imagery and geographic information systems used in the asbestos removal process in Poland</i> // <b>M. Krowczynska</b> , <i>Use of spectral and structural features of objects for land use mapping basing on satellite images</i> // <b>M. Kunz</b> , <i>The woodiness changes in Forest Inspectorates of Pomerania during the last 150 years</i> // <b>M. Kunz</b> , A. Nienartowicz, M. Waliszewska, <i>The GIS and RS Technology in Forest Regeneration Monitoring</i> // <b>A. Marcinkowska</b> , A. Ochtyra, E. Wołk-Musiał, B. Zagajewski, J. R. Olędzki, <i>Geomorphological mapping of young glacial areas of NE Poland</i> |   |
| 18:45-19:00   |  |   |   |
| 19:00-19:15   |  |   |   |
| 19:15-20:00   |  |   |   |
| 20:00 - 21:00 |  | ICE BREAKER : Restaurant "S. Pietro Barisano"   |   |
| 21:00 - 22:30 | Concert in CASA CAVA: "Sounds from the Mediterranean"  |   |   |

Conference halls

|  |   |
|--|---|
|  | Hall A, Mediateca                               |
|  | Hall B, University (Aula "Sassu")- ground floor |
|  | Hall C, University (Aula 43)- 4th floor         |

| TIME        |   | Tuesday, June 4th - a.m.  |  |
|-------------|---|---|--|
| 8:30-8:45   |   |   |  |
| 8:45-9:00   |   | Registration  |  |
| 9:00-9:15   | Session 5b: "Radar Remote Sensing - 2" Mediateca, hall A - Chairperson : Francesco Dini   | <b>M. Klockmann</b> , R. Sabia, D.F. Prieto, C. Donlon, M. Talone, J. Font, <i>Satellite-based TS Diagrams derived from SMOS, Aquarius and OSTIA data</i>   | <b>M. V. Milone</b> , V. Baiocchi, M. Mormile, D. Dominici, <i>Experimentation of different techniques to extract DSM from EROS B imagery in a post seismic scenario</i>                               |
| 9:15-9:30   |   | <b>R. Lasaponara</b> , A. Lanorte, <i>Athmosferic correction in satellite radar X-band</i>  | <b>M. V. Milone</b> , V. Baiocchi, M. Mormile, D. Dominici, R. Brigante, F. Radicioni, <i>Multispectral automatic feature extraction methodologies comparison</i>                                      |
| 9:30-9:45   |   | <b>J. R. Santos</b> , F. da Silva Ramos Vieira Martins, L. Soares Galvão, H. Magalhães Abraham Xaud, <i>Contribution of polarimetric SAR attributes for modeling of the tropical forest biomass affected by fire</i>  | C. Iasio, J. Pascal Iannacone, <b>M. Innerebner</b> , A. Corsini, <i>A vector based model for combining multi-interferometry data gained by different satellite orbits: a web-gis open access tool</i> |
| 9:45-10:00  |   | <b>Esra Erten</b> , <i>Maximizing Mutual Information For Glacier Surface Velocity Measure</i>   |  |
| 10:00-10:15 | Keynote - Mediateca, Hall A   | <b>Keynote 4: Carmine Serio (University of Basilicata), Kalman filter methodology applied do Geostationary Satellite Observations: the case of surface emissivity and surface temperature</b>   |  |
| 10:15-10:30 |   |   |  |
| 10:30-10:45 | Poster session 2- Mediateca   | <b>T. Katagis</b> , D. Fernández-Prieto, M. Marconcini, <i>Soil moisture estimation by using active microwave measurements and Support Vector Regression (SVR)</i> // <b>A. Calle</b> , <i>Study of Sentinel-3/SLSTR suitability for estimating active fire parametres</i> // <b>K. Okello Were</b> , O. B. Dick, Bal R Singh, <i>Remote sensing the Spatial and Temporal Land Cover Dynamics in Eastern Mau Forest Reserve and Lake Nakuru Drainage Basin, Kenya</i> // <b>S. Yetemegn</b> , B. Zagajewski, P. Pabjanek, <i>Analysis of protected and unprotected zones of the Bialowieza Primary Forest (NE Poland)</i> // V. Barrile, <b>G. Bilotta</b> , T. Pangallo, G. M. Meduri, <i>Dynamic GIS and Remote Sensing for the diagnosis and geological monitoring of catchment areas</i> // V. Barrile, <b>G. Bilotta</b> , G. Angiulli, G. M. Medur, <i>Archaeological investigations with TLS and GPR surveys and geomatics techniques</i> // <b>M. A. Zoran</b> , R. Savastru, D. Savastru, <i>Time series satellite data for spatio-temporal analysis of land cover biogeophysical parameters in Bucharest metropolitan area in Romania</i> // <b>Maria A Zoran</b> , Mariana Rodica Dida, <i>Urban air pollution assessment through satellite and in-situ data data in relation with health aspects</i> // A. Durand, R. Andreoli, <b>C. Tinel</b> , Hervé Yésou, <i>Multi-strip DSM generation with Pleiades-HR data over a coastal and mountainous mining landscape</i> // <b>Jong-Min Yeom</b> , Hyun Ok Kim, Bo-Yeol Yoo, <i>The study of estimating land products with Geostationary Ocean Color Imager (GOCI) images with Nadir BRDF Adjusted Reflectance (NBAR)</i> // <b>M. Mycke-Dominko</b> , M. Mierczyk, <i>The inventory of forest fires in Europe from satellite images</i> // <b>E. Walk-Musial</b> , Ł. Krześniak, M. Mycke-Dominko, <i>Cartographic visualization of tourist expense based on remote sensing and GIS</i> // <b>E. Kovács</b> , <i>Assessment of geographical effects of climate change in Hungary with remote sensing methods</i> // V. P. Soares, C. A. A. S. Ribeiro, F. S. Oliveira, J. M. Gleriani, <i>Use of ALOS satellite data to estimate volume and biomass in an eucalyptus plantation located in the state of Minas Gerais - Brazil</i> // Dewayani Sutrisno (Bakosurtanal, Indonesia), <i>An early warning system tool for ecological-economical resources management</i> |  |
| 10:45-11:00 |   |   |  |
| 11:00-11:15 |   | Coffee Break  |  |
| 11:15-11:30 |   |   |  |
| 11:30-11:45 | Session 7: "Urban Remote Sensing" - Mediateca, hall A - Chairperson : Karsten Jacobsen  | <b>A. Lefebvre</b> , N. Beaugendre, A. Penneç, C. Sannier, T. Corpetti, <i>Using data fusion to update built-up areas of the 2012 European High-Resolution Layer Imperviousness</i>   | <b>S. Tinti</b> , A. Armigliato, G. Pagnoni, F. Zaniboni, <i>Contributions of satellite imagery to tsunami vulnerability and risk reduction: achievements and perspectives</i>                         |
| 11:45-12:00 |   | G. Nolè, R. Lasaponara, A. Lanorte, <b>B. Murgante</b> , <i>Analyzing urban growth with urban density and change detection using Open data</i>  | <b>I. Didenkulova</b> , I. Nikolkina, <i>Rogue waves in the sea</i>  |
| 12:00-12:15 |   | <b>R. P. Pérez Machado</b> , C. Small, <i>Identifying multi-decadal changes of the Sao Paulo urban agglomeration with mixed remote sensing techniques: Spectral Mixture Analysis and Night Lights</i>   | <b>G. Laneve</b> , L. Fusilli, G. Santilli, P. Marzialetti, <i>Designing an effective monitoring system based on satellite sensor for the oil spills detection in Lake Maracaibo, Venezuela</i>        |
| 12:15-12:30 |   | <b>T. Cardinale</b> , S. Di Turi, <i>The high-resolution computer models and the information system in the heat balance of the city</i>   | <b>Siri Øyen Larsen</b> (Norwegian Computing Center, Norway) et al., <i>Automatic avalanche mapping using texture classification of optical satellite imagery</i>                                      |
| 12:30-12:45 | G. Nolè, M. Danese, <b>R. Lasaponara</b> , M. Danese, F. Martellozzo, <b>B. Murgante</b> , <i>Analyzing urban growth through urban simulation models</i>  | <b>L. N. Vasiliev</b> , <i>Holistic ice velocity network in Antarctica</i>  |  |
| 12:45-13:00 | <b>L. Demarchi</b> , C. Cariou, G. A. Licciardi, F. Canters, J. Cheung-Wai Chan, <i>Urban land-cover mapping with hyperspectral data by means of data reduction techniques and machine learning classifiers</i> | <b>Chung-Chi Lin</b> et al., <i>Microwave Scattering Signature of Snowpack – 5 years of SnowScat Observation Experiments</i>  |  |
| 13:00-13:15 | Keynote - Mediateca, Hall A   | <b>Keynote 5: Tanja Van Achteren (BELPSO), PROBA Vegetation, ensuring global vegetation for the future</b>  |  |
| 13:15-13:30 |   |   |  |
| 13:30-15:00 | LUNCH   |   |  |

| TIME        |   | Tuesday, June 4th - p.m.  |  |
|-------------|---|---|--|
| 15:00-15:15 | Keynote session - Mediateca, Hall A   | <b>Keynote 6: <u>A. Gleyzes</u>, L. Perret, E. Cazala-Houcade, <i>Pleiades system is fully operational in orbit</i></b> |  |
| 15:15-15:30 |   |   |  |
| 15:30-15:45 | Session 9A: "Pleiades 1" - Mediateca, Hall A<br>Chairperson : Alain Gleyzes           | Session 10A: "Land use/ Land cover " - University, Hall B<br>Chairperson : Tanja Van Achteren                           | <b>C. Tinel</b> , D. Fontannaz, H. De Boissezon, <i>Pleiades and its Users Thematic Commissioning</i>  |
| 15:45-16:00 |   |   | G. Manuel, <b>J. Michel</b> , <i>Monteverdi 2.0 - Remote sensing software for Pleiades images analysis</i>   |
| 16:00-16:15 |   |   | <b>D. FONTANNAZ</b> , A. GIROS, B. ALLENBACH, D. TREINSOUTROT, M. DE MICHELE, <i>Potential of PLEIADES VHR imagery for risks management and sustainable reconstruction in Haiti: the KAL-HAITI research database example</i>   |
| 16:15-16:30 |   |   | <b>B. Zagajewski</b> , P. Gamba, J. Olczyk, M. Kacprzyk, U. Pytlak, <i>Land cover mapping of seminatural areas of Mazury and Podlasie area using Landsat images and the fuzzy ARTMAP simulator</i>   |
| 16:30-16:45 | <b>Coffee Break</b>   |   |  |
| 16:45-17:00 |   |   |  |
| 17:00-17:15 | Session 9B: "Pleiades 2" - Mediateca, Hall A - Chairperson : Alain Gleyzes            | Session 10B: "Land use/ Land cover " - University, Hall B<br>Chairperson : Beniamino Murgante                           | <b>J. Maxant</b> , C. Proy, D. Fontannaz, S. Clandillon, B. Allenbach, H. Yesou et al., <i>Paul De Fraipont, Contribution of Pleiades HR imagery for disaster damage mapping</i>   |
| 17:15-17:30 |   |   | A. Durand, <b>J. Michel</b> , C. de Franchis, B. Allenbach, A. Giros, <i>Qualitative assessment of three DSM generation approaches using Pleiades-HR data</i>  |
| 17:30-17:45 |   |   | J. Bouffier, D. Hébrard, B. Mingam, <b>D. Treinsoutrot</b> , <i>Urban density with VHSR images. The precise determination of urban density with automatic methodologies applied to Pleiades images</i>   |
| 17:45-18:00 |   |   | <b>I. Fasching</b> , F. Vuolo, <i>Integration of Earth observation and in-situ data for landscape change analysis</i>  |
| 18:00-18:15 | Session 9C: "Temporal Analysis" - Mediateca, Hall A - Chairperson : Francesco Gomasca | Session 10B: "Land use/ Land cover " - University, Hall B<br>Chairperson : Beniamino Murgante                           | <b>A. Mangin</b> , Chloé Vincent, Mohammed Taji, C. Tinel, M. Grizonnet, D. Fontannaz, <i>léiades VHR imagery and synergy with other sensors to better characterise anthropic pressures and environmental status of coastal zones</i>  |
| 18:15-18:30 |   |   | <b>S. Del Bianco</b> , U. Cortesi, M. Gai, L. M. Laurenza, F. Barbara, S. Ceccherini, ET AL., <i>Inverse modeling of carbon dioxide total column from satellite-based passive remote sounding in the thermal infrared: current results and future developments using the KLIMA algorithm</i> |
| 18:30-18:45 |   |   | B. Figorito, <b>E. Tarantino</b> , G. Balacco, A. Gioia, V. Iacobellis, LAI retrieval from SPOT Vegetation in Mediterranean basins   |
| 18:30-18:45 |   |   | <b>G. Manfron</b> , M. Boschetti, R. Confalonieri, F. Nutini, et al., <i>Application of an automatic rice mapping system to extract phenological information from time series of MODIS imagery in African environment: first results of Senegal</i>  |
| 18:30-18:45 |   |   | <b>Hanh Hong Tran</b> , Matthieu Kervyn, Thuc Tran, <i>Application of remote sensing and geographical information system for detecting land cover and land use change – case study of Ca Mau area, Vietnam</i>   |
| 18:30-18:45 |   |   | K. O. Barros, <b>C. A. A. S. Ribeiro</b> et al., <i>Prognosis of land use in environments predisposed to desertification using Markov Chain and Cellular Automata</i>  |
| 18:30-18:45 |   |   | <b>I. László</b> (Institute of Geodesy, Cartography and Remote Sensing, Hungary), <i>The integration of remote sensing and GIS data in the control of agricultural subsidies in Hungary</i>  |
| 19:00-20:30 | <b>Guided tour from Mediateca to Sasso Barisano</b>                                   |   |  |
| 20:30-23:00 | <b>SOCIAL DINNER: Restaurant "S. Pietro Barisano"</b>                                 |   |  |

**Conference halls**

|  |   |
|--|---|
|  | Hall A, Mediateca                               |
|  | Hall B, University (Aula "Sassu")- ground floor |
|  | Hall C, University (Aula 43)- 4th floor         |

| TIME        |   | Wednesday, June 5th - a.m.  |   |
|-------------|---|---|---|
| 8:30-8:45   |   | Registration  |   |
| 8:45-9:00   |   |   |   |
| 9:00-9:15   | Session 11A: "Forestry & Natural Environment 1" - Mediateca, hall A - Chairperson : Ianni Manakos | <u>B. Schoettker</u> , D. Barrett, M. Wettle, <i>Diversity in reference ecosystems</i>  | <u>Giovanni Laneve</u> , Roberto de Bonis, Lorenzo Fusilli, <i>Development of a vegetation damage severity index based on hyperspectral sensor data</i>   |
| 9:15-9:30   |   | <u>M. Kycko</u> , B. Zagajewski, A. Kozłowska, A. Ochtyra, A. Marcinkowska, <i>Variability of spectral characteristics of trampled high-mountain meadows of the Tatra National Park and M&amp;B Reserve</i>                                 | <u>A. Lanorte</u> , F. Desantis, A. Aromando, R. Lasaponara, <i>Performance assessment of fire-sat monitoring system based on satellite time series for fire danger estimation : the experience of the pre-operative application in the Basilicata Region (Italy)</i> |
| 9:30-9:45   |   | <u>Luis Octavio Lagos</u> , Mario Lillo-Saavedra, David Fonseca, Consuelo Gonzalo, <i>Evapotranspiration of partially vegetated surfaces from remote sensing.</i>   | <u>Malgorzata Mycke-Dominko</u> , Elzbieta Wolk-Musial, <i>Forest fire categorization using remote sensing methods</i>  |
| 9:45-10:00  |   | <u>Adrian Ochtyra</u> , Bogdan Zagajewski, Anna Kozłowska, Adriana Marcinkowska, Paolo Gamba, Marlena Kycko, Anna Jarocinska, <i>Mapping of damaged forest areas of the Tatra Mountains using Landsat images and fuzzy ARTMAP simulator</i> | <u>Carmine Maffei</u> , Massimo Menenti, <i>Remote sensing estimation of vegetation moisture for the prediction of fire hazard</i>  |
| 10:00-10:20 | Keynote session   | <b>Keynote 7: Eva De Clercq (BELSPO), Remote Sensing as data source in a resource-limited context: species distribution modelling of invasive cattle ticks in West Africa</b>   |   |
| 10:20-10:40 |   | <b>Keynote 8: Gyorgy Buttner (EEA), Copernicus Initial operations Land (2011-2013): Progress, first results and upcoming</b>  |   |
| 10:40-11:00 |   | Discussion  |   |
| 11:00-11:15 | Coffee Break  |   |   |
| 11:15-11:30 | GENERAL ASSEMBLY  |   |   |
| 11:30-11:45 |   |   |   |
| 11:45-12:00 |   |   |   |
| 12:00-12:15 |   |   |   |
| 12:15-12:30 |   |   |   |
| 12:30-12:45 |   |   |   |
| 12:45-13:00 |   |   |   |
| 13:00-13:15 |   |   |   |
| 13:15-13:30 |   |   |   |
| 13:30-13:45 |   |   |   |
| 13:45-14:00 | LUNCH   |   |   |
| 14:00-14:15 |   |   |   |
| 14:15-14:30 |   |   |   |
| 14:30-14:45 |   |   |   |
| 14:45-15:00 |   |   |   |

| TIME        | Wednesday, June 5th - p.m.   |   |  |  |
|-------------|--|---|--|--|
| 15:00-15:15 | <b>Session 11B: "Forestry &amp; Natural Environment 2"</b> - Mediateca, hall A<br>Chairperson: György Buttner  | <b>Dariusz Ziolkowski</b> , Alicja Malinska, <i>Spatial variability of rape yields reduction due to the winter warming and frost events—case study Poland</i>   | <b>Session 13A: "Methods &amp; Instruments" 1</b> University, Hall B<br>Chairperson: Eva De Clercq | <b>Michał T. Chilinski</b> , Bogdan Zagajewski, Krzysztof Markowicz, Sławomir Krolewicz, Jerzy Cierniewski, Jan Piekarczyk, <i>Verification of BRDF modeling accuracy of laboratory hyperspectral measurements of grasses</i>  |
| 15:15-15:30 |  | <b>M. Adamo</b> , C. Tarantino, R. Lucas, G.A. Jones, V. Tomaselli, V. Kosmidou, Z. Petrou, Caspar A. Múcher, C. Marangi, Vito De Pasquale, <i>Expert knowledge and remote sensed data for biodiversity monitoring in coastal Natura 2000 sites</i>   |  | <b>Daniele Cerra</b> , Rupert Müller, Peter Reinartz, <i>Exploiting Noisy Hyperspectral Bands for Vegetation Analysis</i>  |
| 15:30-15:45 |  | A. Marcinkowska, <b>B. Zagajewski</b> , L. Kupkova, A. Ochtyra, M. Kycko, J. Jelenek, M. Tobiasz, M. T. Chilinski, A. Jarocinska, <i>Spectral differentiation of invasive species of Karkonosze and Karkonosze National Parks</i>   |  | <b>Ángel M. García-Pedrero</b> , Consuelo Gonzalo-Martín, Mario Lillo-Saavedra, <i>A strategy to improve quality and speed of multi-scale high-resolution image analysis through superpixels</i>   |
| 15:45-16:00 |  | <b>Anna M. Jarocinska</b> , <i>The application of PROSAIL model for modelling the reflectance of meadows vegetation</i>   |  | <b>Ghada El Serafy</b> , <i>Data Assimilation of Remote Sensing Data in Sediment Transport Models and Ecological Models</i>  |
| 16:00-16:15 |  | <b>Mario Lillo-Saavedra</b> , David Fonseca, Octavio Lagos, Consuelo Gonzalo, <i>Spatial Characterization of Evapotranspiration. A study at a field scale</i>   |  | <b>C. Ribeiro</b> , V. Soares, J. Gleriani, M. Chaves, A. Lorenzon, K. Barros, F. Costa, G. Marcatti, N. Castro, G. Domingues, J. Oliveir, <i>Fostering the payment for environmental services in Brazil – a fair review of the Itaipu binacional's royalties policy</i> |
| 16:15-16:30 | <b>L. Halounova</b> et al., <i>Classification of functional land use classes in several tens of urban areas in the Czech Republic from aerial photographs</i>  | G. Argento, G. S. Salmuni, <i>Identification of snow covered surfaces using SAR images in los Andes of Argentina and Chile</i>  |  |  |
| 16:30-16:45 | <b>Coffee Break</b>  |   |  |  |
| 16:45-17:00 |  |   |  |  |
| 17:00-17:15 | <b>Poster session 3- Mediateca</b>   | <b>Piotr Pabianek</b> , Selamawit Yetemegn, Zenon Sedzikowski, <i>Application of Landsat imagery to assessment of forest naturalness (Bialowieza Forest, NE Poland)</i> ; <b>Lucie Kunkova</b> , Martin Ourednicek, Magdalena Indrova, <i>Remote sensing for suburbanization development evaluation in Prague's hinterland in the period 1990 – 2007 and modeling of future development</i> // <b>Bogdan Apostol</b> , Marius Petrila, Adrian Lorent, Vladimir Ganzc, <i>Estimation of biometric spruce stand parameters by automatic individual trees identification using ALS data</i> // <b>Piotr Pabianek</b> , Tomasz Hycza, <i>Determinants of secondary forest succession</i> // <b>Linda Mosef</b> , <i>Towards water stress indicators in sub-Saharan West-Africa using high resolution optical satellite data</i> ; <b>Pietro Millilo</b> , Aurelia Sole, Carmine Serio, <i>Integrating COSMO-SkyMed SAR Data into Geographical Information Systems (GIS)</i> // Monika Mierczyk, <b>Bogdan Zagajewski</b> , Roksana Knapik, <i>Spectral characteristics of dominant minerals and rocks of the Karkonosze National Park</i> // <b>Vito Imbrenda</b> , Maria Lanfredi, Dimitri Dello Buono, Rosa Coluzzi, Tiziana Simoniello, <i>Satellite analysis of vegetation cover for the enhancement of natural areas</i> // <b>Maria Danese</b> , Nicola Masini, Beniamino Murgante, <i>Archaeological risk and spatial analysis. How to compare urban sprawl and archaeological sensibility maps</i> // <b>Giuliana Bilotta</b> , Vincenzo Barrile, <i>An application of object-based analysis of satellite imagery on waste</i> // <b>Maciej Nowak</b> , Andrzej Kijowski, <i>Quantitative and qualitative potential of shelterbelts. Ground measurements of shelterbelts with laser scanner</i> // <b>Jacopo Turchetto</b> , <i>Cappadocia (Turkey) from above. Corona satellite imagery and the detection of a possible ancient road network</i> // <b>Mario A Gomasasca</b> , Vittorio Valleri, <i>The SABER PROJECT Satellite Broadband for European Regions</i> |  |  |
| 17:15-17:30 |  |   |  |  |
| 17:30-17:45 | <b>Session 14: "Cultural Heritage"</b> - Mediateca, Hall A<br>Chairperson: Rosa Lasaponara   | Deodato Tapete, <b>Christopher Stewart</b> , <i>Perspectives from new and upcoming radar space missions for cultural heritage applications</i>  | <b>Session 13B: "Methods &amp; Instruments 2"</b> - University, Hall B<br>Chairperson: Maria Zoran | <b>Alberto Pizarro-Rubio</b> , Consuelo Gonzalo-Martín, Mario Lillo-Saavedra, <i>Efficient multidirectional satellite image fusion based on Shearlet Transform</i>   |
| 17:45-18:00 |  | <b>Karel Pavelka</b> , Martina Faltnova, Zdenka Bila, Zdenek Svec, <i>Using of Airborne Laser Scanning in Archaeology</i>   |  | <b>Elsy Ibrahim</b> , Jaak Monbaliu, <i>Site-dependent classes for the classification of intertidal sediments</i>  |
| 18:00-18:15 |  | <b>Antonio Monteleone</b> , <i>Where project: an overview</i>   |  | <b>Consuelo Gonzalo-Martín</b> , Mario Lillo-Saavedra, <i>Unsupervised multiscale ROIs determination for supervised thematic classification</i>  |
| 18:15-18:30 |  | <b>Giuseppe Scardozi</b> , <i>Ancient land divisions in the territory of Hierapolis in Phrygia (Turkey): the contribution of multitemporal satellite images to the discovery and study</i>  |  | <b>Giuseppe Grieco</b> , Guido Masiello, Carmine Serio, <i>The <math>\alpha</math>-IASI-<math>\beta</math></i>   |
| 18:30-18:45 | <b>N. Masini</b> , I. Alva, G. Leucci, R. Persico, L. Capozzoli, R. Lasaponara, <i>Archaeogeophysical approach in Lambayeque (Peru) for study of looting and detection of archaeological buried earthen monuments and structures</i> | <b>Tamir Caras</b> , Arnon Karnieli, <i>Ground-level spectroscopy analyses and classification of coral reefs using a hyperspectral camera</i>   |  |  |
| 19:15-20:30 | <b>Visit of "Palombaro": the greatest cistern in Italy</b>   |   |  |  |

**Conference halls**

- Hall A, Mediateca
- Hall B, University (Aula "Sassu")- ground floor
- Hall C, University (Aula 43)- 4th floor

| TIME        | Thursday, June 6th - a.m.  |   |  |
|-------------|--|---|--|
| 8:30-8:45   |  |   |  |
| 8:45-9:00   |  |   |  |
| 9:00-9:15   | <b>Session 15: "Climate Change and Meteorology" - Mediateca, hall A</b><br>Chairperson : Bogdan Zagajewski | <b>F. Vespe</b> , C. Benedetto, M. Amoroso, <i>The Use of Global Navigation Satellite Systems (GNSS) Devoted to Earth's Remote Sensing: some Applications</i>   |  |
| 9:15-9:30   |  | <b>Aleksey I. Sharov</b> , Dmitry B. Nikolskiy, <i>Satellite map series of long-term elevation changes on the Eurasia's northernmost ice caps</i>   |  |
| 9:30-9:45   |  | <b>Maria A Zoran</b> , Roxana Savastru, Dan Savastru, Marina Nicoleta Tautan, <i>Spatial distribution of aerosol pollution based on MODIS and in-situ data over Bucharest urban area, Romania</i>   |  |
| 9:45-10:00  |  | <b>Viviana Vladutescu</b> , <i>Calibration techniques and applications of sunphotometers to remote sensing of atmospheric aerosols</i>  |  |
| 10:00-10:15 |  | <b>Benjamin Stuch</b> , Rüdiger Schaldach, Ellen Kynast, <i>Managing uncertainties from climate models in agricultural impact assessments</i>   |  |
| 10:15-10:30 |  | <b>Piera Raspollini</b> , Bruno Carli, Simone Ceccherini, Ugo Cortesi, Samuele Del Bianco, Marco Ridolfi, <i>MIPAS-ENVISAT dataset for the study of the temporal evolution of the atmospheric composition</i>   |  |
| 10:30-10:45 |  | P. Blonda, P. Dimopoulos, R.H.G. Jongman, S. Mucher, H. Nagendra, D. Iasillo, A. Arnaud, P. Mairota, J.P. Honrado, E.P. Schioppa, R. Lucas, L. Durieux, S. Bollanos, L. Candela, J. Inglada, <b>L. Manakos</b> , <i>The BIO_SOS European Initiative for Habitat Monitoring</i>  |  |
| 10:45-11:00 |  | <b>Tomáš Bucha</b> , Ivan Barka, <i>Comparison of results of different management practice in small-scaled protected areas and in commercially used forests in Slovakia</i>   |  |
| 11:00-11:15 |  | <b>Coffee Break</b>   |  |
| 11:15-11:30 |  |   |  |
| 11:30-11:45 | <b>Session Mediateca, Hall A</b>   | <b>Keynote 9: Francesco Nirchio (ASI), Cosmo Sky Med and Remote Sensing Initiatives in ASI: status and perspectives</b>   |  |
| 11:45-12:00 |  | <b>Sara Steffenino</b> , Irene Angeluccetti, Franca Disabato, <i>Urban Detection Using Decision Tree Classifier: a case study</i> // <b>Mohamed Ghabi</b> , K. K. Das, <i>Assessment of Biomass in Magra and Dhanaulti reserve Forest (Missouri Forest, INDIA) Using Remote Sensing and GIS</i> // <b>Claudia Belviso</b> , Francesco Cavalcante, Laura Stabile, Savino Michele, Francesco Vitelli, Fortunato De Santis, Antonio Lanorte, Rosa Lasaponara, <i>Satellite time series and in situ data analysis for assessing land slide susceptibility after forest fire: the case study of Pisticci 2012 fire</i> // <b>Gabriele Nolè</b> , Giuseppe Calamita, Rosa Lasaponara, Antonio Lanorte, Beniamino Murgante, <i>Analyzing urban sprawl classifying satellite images with Support Vector Machine</i> // <b>Antonio Lanorte</b> , Angelo Aromando, Fortunato Desantis, Rosa Lasaponara, <i>Space Monitoring of air pollution using satellite time series: from a global view down to local scale</i> // <b>Nicola Masini</b> , Rosa Lasaponara, <i>VHR satellite multitemporal data to extract cultural landscape changes in the roman site of Grumentum</i> // Maria Vittoria Milone, <b>Martina Mormile</b> , Donatella Dominici, Valerio Baiocchi, <i>UAV flight plan software: first implementation of UP23d</i> // <b>Alberto Marini</b> , Davide Tocco, Boujillel Boussairi, Nabil GASMI, <i>Geological and environmental Dynamics of the mining area of Jebel Sehib - Central Tunisia</i> // <b>Ákos Malatinszky</b> , Szilvia Ádám, <i>Adaptation of agricultural and conservation management to protect biodiversity against climate change effect</i> |  |
| 12:00-12:15 | <b>Poster session 4- Mediateca</b>   |   |  |
| 12:15-12:30 |  |   |  |
| 12:30-12:45 |  | <b>Best paper and best poster awards</b>  |  |
| 12:45-13:00 |  |   |  |
| 13:00-13:15 | <b>SYMPOSIUM CLOSING CEREMONY</b>  |   |  |
| 13:15-13:30 |  |   |  |
| 13:30-15:00 | <b>LUNCH</b>   |   |  |

Conference halls

|  |   |
|--|---|
|  | Hall A, Mediateca                               |
|  | Hall B, University (Aula "Sassu")- ground floor |
|  | Hall C, University (Aula 43)- 4th floor         |