

Conference Programme

Sunday – 21 September 2008

17:00 - 20:00 Registration
20:00 Ice-breaker

Monday – 22 September 2008

8:00 – 18:00 REGISTRATION

9:00 – 12:00 OPENING CONFERENCE (ROOM A)

KEYNOTE LECTURES:

Chairmen: Rudi Goossens, Belgium and Marinko Oluić, Croatia

Current potentials and problems of using remote sensing methods in forest fires prevention and assessment

Emilio Chuvieco: Universidad de Alcalá Colegios 2, Spain

Towards Comprehensive Seismic Risk Modelling and Quick Loss Estimation in Urban Areas Using GIS and Remote Sensing Technologies

Mohsen Ghafory-Ashtiany, Babak Mansori: International Institute of Earthquake Engineering and Seismology (IIEES) Teheran, Iran

Environmental Dynamics and Trends in the Mediterranean Sea:
a Satellite View

Vittorio Barale: Institute for Environment and Sustainability Joint Research Centre, European Commission Ispra (VA), Italy

12:00 – 14:00 LUNCH

TECHNICAL SESSIONS

14:00 – 15:30 S-1A: FOREST FIRES- PREVENTION AND ASSESSMENT (ROOM A)

Chair: Emilio Chuvieco, Spain; Co-Chair: Ioannis Gitas, Greece

* Remote sensing of grassland fuel moisture content for predicting fire occurrence in Mediterranean areas

E. Chuvieco, M. Yebra & S. Hantson

- * A contextual approach for forest fires spread modeling using remotely sensed data and GIS
S. Khazai, A. G. Meybodi & M. A. Rajabi
- * Optimal Detection and Fighting of Forest Fires Valuing Weather Observation Systems for Forest Fire Management
N. Khabarov, E. Moltchanova & M. Obersteiner
- * BAD – Burnt Area Detection, a procedure to detect burnt forest surfaces by satellite images
C. Conese, L. Bonora & R. Carlà

14:00 - 15:30 S-3A: TORRENTS AND FLOODS (ROOM B)

Chair: Anjana Vyas, India; Co-Chair: Ivan Čačić, Croatia

- * Remote sensing application in the assessment of the erosion and torrent mapping and disaster management
Z. Gavrilović, M. Stefanović, M. Milojević, J. Čotrić & I. Milovanović
- * A geospatial approach for estimating waste generation from floods and emergency relief operations
J. Maada, K. Kandeh, C. Davies & T. Rashed
- * A GIS Tool for Early Warning Monitoring of Flood Events
E. Borgogno Mondino & M. Gomasasca
- * Soil-vegetation-atmosphere energy fluxes: Land surface temperature evaluation by Terra/MODIS satellite images
V.A. Copertino, C. Marzo, V. Pastore, G. Scavone & V. Telesca

15:30 – 16:00 COFFEE BREAK

16:00 – 17:30 S-1B: FOREST FIRES- PREVENTION AND ASSESSMENT (ROOM A)

Chair: Ioannis Gitas, Greece; Co-Chair: Emilio Chuvieco, Spain

- * Forest fires in the Republic of Croatia (1992 – 2006)
P. Jurjević, D. Vuletić & J. Gračan
- * The possibilities of assessing potential fire threats to forests using remote sensing methods and GIS
D. Barčić, R. Pernar, Ž. Španjol, M. Ančić, R. Rosavec, A. Seletković, M. Vučetić & M. Maršić
- * Airborne reconnaissance and surveillance of the vegetation fires
M. Bajic, M. Miloslavić, M. Hucaljuk, N. Šosterič, D. Penzar
- * Detecting forest fires at the Croatian Adriatic coast by means of 3.9 μm SEVIRI data
N. S. Mahovic

16:00 – 17:30 S-3B: TORRENTS AND FLOODS (ROOM B)

Chair: Anjana Vyas, India; Co-Chair: Ivan Čačić, Croatia

- * Application of Remote Sensing and GIS in Disaster (Flood) Management of the City Urban Flood due to Heavy Rainfall and Storm Water Drainage
A. Vyas
- * TerraSAR-X data as new opportunity for disaster management and emergency response
M. Mueller
- * Influence of forest fires on water erosion of soil in the Mediterranean area of Croatia
L. Butorac, V. Topic & G. Jelic

17:30 – 18:00 COFFEE BREAK

18:00 – 19:30 POSTER SESSION (ROOM C)

- Modis reflective and active fire data for burn mapping at regional level
Silvia Merino de Miguel, Federico González Alonso, Margarita Huesca
Web monitoring of forest fires on Balkan region in summer of 2007
Roumen D. Nedkov, Maria M. Dimitrova, Iva I Boneva, Mariana M Zaharinova
- Some factors influencing wildland fire statistics for three representative Adriatic islands - Wildland fire statistics on Adriatic islands
Roman Rosavec, Damir Dominko, Damir Barčić, Damir Starešinić, Marko Vučetić, Ana Kuveždić, Željko Španjol, Katica Biljaković
- Forest fires early localization Using insitu UVC measurements
George St. Georgiev
- UAV system for tactical reconnoissance of forest fires
Edis Elkasovic, Milivoj Hucaljuk, Dražen Penzar, Neven Šosterič, Ivan Murgaš, Krešimir Hećimović, Ivan Galić, Milan Bajić.....
- Better observations for better earthquake response - value of observations for building efficient earthquake rapid response system
Nikolay Khabarov, Elena Moltchanova, Michael Obersteiner
- Role of near-real-time remote sensing data in disaster management and emergency response
Bojan Pecnik
- Observation of torrential rains devastation in Slovenia -Application of the space and major disasters charter for the floods and landslide observation
Kristof Ostir, Ziga Kokalj, Peter Pehani, Ales Marsetic

Determination of sea flood areas using lidar data Nataša Kolega
Karst flood determination as spatial planning tool Petra Slavec
Monitoring natural hazard from mass movements on the Fruška gora mountain (Vojvodina, Serbia) Mesaroš M. Minučer, László Mucsi, József Szatmári
Indicators of cartification and erosion changes on the Krk island Igor Ružić, Čedomir Benac, Goran Lipovščak
Natural risk management “of sand moves and desertification” in the region of Ziban (BISKRA) - Cases in the region of El Hadjeb and Ain beneoui Tewfik Mostephaoui
Investigation of relationships between soil texture fragments and satellite data (Case study: Pol-e-Dokhtar, the southwest of Lorestan Province) - Studying on the soil texture using satellite data Majid Danesh, Hossein Ali Bahrami, Seyed Kazem Alavipanah
Potentiality of feed-forward neural networks for classifying dark formations to oil spills and look-alikes Konstantinos Topouzelis, Vassilia Karathanassi
Satellite data contribution to marine alert systems Mira Morovic, Branka Grbec
Rising of the sea level on the eastern Adriatic coast since antiquity:evidence of roman villa sites Vlasta Begovic & Ivancica Schrunk
The identification and calibration of the airborne multisensor acquisition system Tomislav Ciceli, Milan Bajić, Ivana Vuković, Andrija Krtalić
Airborne multisensor acquisition system and the sensor pod Tihomir Kičinbači, Davor AntoniĆ, Hrvoje Gold, Dejan Vuletić, Silvio Šemanjski, Milan Bajić
Parametric geocoding of raw hyperspectral data Dubravko Gajski, Silvio Šemanjski

20:00

RECEPTION (MAYOR OF THE CITY OF ZADAR)

TUESDAY - 23 September 2008

9:00 – 10:30 S-2A: GEOLOGICAL HAZARD-EARTHQUAKES (ROOM A)

Chair: Mohsen Ghafory-Ashtiany, Iran; Co-Chair: Marinko Oluic, Croatia

- * Risks prevention and management in Mediterranean countries: advanced services and solutions using satellite information
A. de S. Vincent, F. Grazzini & D. Sayag
- * Macroseismic Data - Surveying After Severe Earthquakes in Europe and the Mediterranean Basin
I. Cecic & V. Kouskouna
- * Rapid Mapping Service for Risk and Disaster Management in the Mediterranean Region
N. Tholey, S. Cherchali & J-J. Bozabalian
- * Model of the seismotectonic activity in the wider area of Zadar (Croatia), based on satellite data and geophysical survey
M. Oluic, S. Romandic & D. Cvijanovic

9:00 – 10:30 S-4: EROSION AND LANDSLIDES (ROOM B)

Chair: Margarita Matova, Bulgaria; Co-Chair: Ivan Gušić, Croatia

- * Development of a system for landslide monitoring (for the territory of Balkan peninsula)
S. Kostyanov, Z. Milutinovich, A. Frasheri, S. Akin, A.Sarris & S. Dimovski
- * GIS and Remote Sensing technologies for the assessment of soil erosion hazard in the Mediterranean Islands
L. Guerri, F. Catani, M. Kukavicic & C. Paoli
- * Comparative evaluation of mass movement susceptibility and hazard mapping using GIS and RS
C. Abdallah & R. B. Kheir
- * Application of electrical resistivity techniques for investigation of landslides
S. Dimovski, N. Stoyanov & S. Kostyanov

10:30 – 11:00 COFFEE BREAK

11:00 – 12:30 S-2B: GEOLOGICAL HAZARD-EARTHQUAKES (ROOM A)

Chair: Marinko Oluić, Croatia; Co-Chair: Mohsen Ghafory-Ashtiany, Iran

- * Low-cost remote sensing and GIS for regional Disaster Risk Reduction
N. J. Morris & R. Teeuw
- * Advantages & Limitations of High and Medium Resolution Satellite Imagery in Disaster management
S.M. Shahrokhy
- * Analysis and documentation of seismic-hydrogeological effects in Balkan region
M. Matova
- * Potential GMES Services for Emergency Response Derived from Crisis Indicators
A. de la Cruz, M. Mielewczyk & V. Navarro

11:00 – 12:30 S-5: LAND DEGRADATION/ DESERTIFICATION (ROOM B)

Chair: Enrico B. Mondino, Italy; Co-Chair Antun Schaller, Croatia

- * Multi-temporal analysis of desertification trend in south-western Sicily through remote sensing
M. Kukavicic, F. Catani & G. Caristi
- * Rapid mapping of risk prone areas in the western Libyan coast
F. Catani & M. Kukavicic
- * Application of remote sensing with Alsat-1 data to followed the desertification in the steppe of Algeria phenomenon of desertification in semi arid zone
A. Zegrar
- * Crop Growth and Yield as Indicators of Anthropogenic Impacts on Soil Conditions
R. Kancheva, D. Borisova & G. Georgiev

12:30 – 14:00 LUNCH

14:00 – 15:30 S-2C: GEOLOGICAL HAZARD-EARTHQUAKES (ROOM A)

Chair: Mohsen Ghafory-Ashtiany, Iran; Co-Chair: Marinko Oluić, Croatia

- * Earthquake Risk Management Principals with the special Emphasis on Iran
M. Ghafory-Ashtiany
- * Geo-information Technology for Seismic Hazard and Risk Reduction in Syria Dynamic Optimisation of Seismic Hazard
H. A. Saleh & G. Allaert

- * Aerospace Monitoring Center and risk management of natural hazard in Bulgaria. First results obtained
A. Frantzova
- * Decision support system for the crisis management in an instance of uncertainty of information and data
A. Krtalic, H. Gold, D. Vuletic & M. Bajic

14:00 – 15:30 S-7A: SENSORS, PROCESSING AND DATA SOURCES (ROOM B)

Chair: Manfred Buchroithner, Germany; Co-Chair: Zvonko Biljecki, Croatia

- * Dynamic monitoring analysis of land use based on RS and GIS in Yulin, China
J. Wang, S. Tang & L.Wang
- * Different new approaches and methodologies for monitoring and management of natural and human made disasters
Z. Biljecki
- * Using a discriminant transformation for improvement unsupervised classification to man made change detection
Abolfazl Aghaee Meybodi
- * COSMO-SkyMed Mission status
F. Battazza, A. Coletta, F. Covello, E. Lopinto, G. Valentini & S. Zoffoli
- * Integration of POS and hyperspectral line sensor
S. Semanjski & D. Gajski

15:30 – 16:00 COFFEE BREAK

16:00 – 17:30 S-6A: SEA AND ATMOSPHERE (ROOM A)

Chair: Mira Morović, Croatia; Co-Chair: Vittorio Barale, Italy

- * The role of satellite remote sensing in supporting tsunami mitigation planning in Mediterranean
N. Chrysoulakis, E. Flouri, E. Diamandakis & V. Dougalis
- * Assessing Tsunami Vulnerability in Alexandria, Egypt by using optical VHR satellite data
G. Zeug & S. Eckert
- * Using RADARSAT-1 SAR data to detect and monitor the Jieh oil spill off the Lebanese Coast: detecting oil spill by Radarsat-1
A. M. Shaban
- * Monitoring of oil spills in the north Caspian sea using SAR imagery and multi-sensor satellite data
K. Litovchenko & A. Ivanov

16:00 – 17:30 S-7B: SENSORS, PROCESSING AND DATA SOURCES (ROOM B)

Chair: Manfred Buchroithner, Germany; Co-Chair: Zvonko Biljecki, Croatia

- * Rapid urban mapping using SAR/optical imagery synergy
C. Corbane, J-F. Faure, M. Petit
- * Investigation on the effect of geometric diameter of soil grain on soil reflectance, using satellite data (Case study: Pol-e-Dokhtar, NW of Lorestan Province)
M. Danesh , S. K. Alavipanah & H. A. Bahrami
- * Transformation of the hyperspectral line scanner into a strip imaging system
S. Šemanjski, D. Gajski & M. Bajić
- * Remote sensing techniques in waste management practic examples
R. Vasiljević & M. Budiša
- * Development of the concept from 1998. and realisation of the system for the airborne multisensor reconnaissance and surveillance in the crisis situations and the protection of the environment in 2007. – 2008.
M. Bajić, H. Gold, T. Fiedler & D. Gajski

17:30 – 18:00 COFFEE BREAK

18:00 – 19:30 S-6B: SEA AND ATMOSPHERE (ROOM A)

Chair: Vittorio Barale, Italy; Co-Chair: Mira Morović, Croatia

- * Development of the sustainable system for the airborne oil spills detection at sea and for validation of the early warning satellite service based on SAR data
M. Bajic & I. Tomažić
- * Sodar measurements during severe bora
B. Ivančan-Picek, I. Stiperski, A. Bajić, V. Grubišić & M. Xiao
- * Assessing large fire occurrence potential in Greece for the year 2003 based on meteorological data.
C. Kalogeropoulos, G. Mallinis, I. Z. Gitas & I. Mitsopoulos

18:00 – 19:30 S-1C: FOREST FIRES- PREVENTION AND ASSESSMENT (ROOM B)

Chair: Emilio Chuvieco, Spain; Co-Chair: Ioannis Gitas, Greece

- * Burn severity determination from remotely sensed data
E. Chuvieco, A. D. Santis & P. Oliva
- * The usage of satellite remote sensing in damage assessment for EU policy support
J. Kucera

- * A system for the simulation and the operational prediction of the vegetation wild fires
M. Bajic, M. Miloslavić, K. Biljaković, D. Starešinić, S. Šamanović, M. Vinković & A. Kuveždić
- * Validation and calibration of Farsite vegetation fire growth simulation software on several Adriatic islands
D. Starešinić, S. Šamanović, A. Kuveždić, M. Miloslavić & K. Biljaković

19:30– 20:10 PANEL DISCUSSION: CONCLUSIONS AND CLOSING (ROOM A)

20:30 RECEPTION (RECTOR OF ZADAR UNIVERSITY)

Wednesday – 24 September 2008

EXCURSION: WHOLE-DAY

9:30	Departure for Boat Trip to the Island of Kornati: Observe: Tectonic structures and Forest fire site
14:00	Conference Lunch on Kornati Island
17:00	Expected return to Zadar