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Digital Earth

Information Resources for Global Sustainability

*The 3rd International Symposium on Digital Earth
Brno, Czech Republic, September 21-25, 2003*

Preliminary PROGRAMME



Sunday, September 21st

Opening Ceremony

17:00-19:30 Opening Speeches:

Vladimír Mlynar (Minister of Informatics)

Libor Ambrozek (Minister of Environment)

Pavel Vosalik (Vice-Minister Foreigner Affairs)

Addresses of Regional Officials

Francisco Ayala

Guo Huadong (ISDE)

Myra Bambacus

Peter Johnstnon (EU)

Address

ISDE Inaugural Address

NASA's Perspective on Geospatial Interoperability.

A European way to a sustainable knowledge society

Exhibition Opening

19:30-21:00 **Ice Breaking Party**

Monday, September 22nd - Session I.

Keynote:

9:00-9:30 **Preetha Pulusani (Intergraph)**

Enabling Interoperable Spatial Data Infrastructures for Sustainable Development

9:30-10:00 **coffee break**

Topic 1 - Data, Information, Knowledge, Technologies and Techniques

10:00-12:00 Qi LI, Lingling GUO, Yuqi BAI

Research on the MDA-based GIS Interoperability

Tomaž Podobnikar, Krištof Oštir

Harmonised Geographical Information System for Mine Action in South East Europe

Xiang Li, Hui Lin

A LANE-SPECIFIC, TEMPORAL GIS-T DATA MODEL FOR MOBILE OBJECT IN DYNAMIC ROAD NETWORK

Jiantao Bi, Tianhe Chi, Jianbang He

The Application Study on Object-Oriented Spatio-Temporal Data Model Based Geodatabase

Bin Jiang, Martin Vesely

Path Direction Using the Number of Junctions

Li Guanshi

A Solution to Large Scale of Terrain Walkthrough Based on SDE

12:00-13:30 **LUNCH**

13:30-15:00 Wilko Quak, Jantien Stoter, Theo Tijssen

Topology in spatial DBMSs

LI Danning, George Chris

Formal Specification with RAISE for a GIS Based Decision Support System*

Marek Baranowski

Integration Role of the General Geographic Database

Ilya Zaslavsky, Ashraf Memon, Michalis

ONLINE QUERYING OF HETEROGENEOUS DISTRIBUTED SPATIAL DATA ON A GRID

Petropoulos, Chaitan Baru

15:00-15:30 **coffee break**

15:30-17:00 Do-Won Nam, Ki-Song Yoon

Design and Implementation of DRM Client for License-based Digital Content Distribution System

Jiř Hæbièek, Jan Peřl, Jaroslav Ráèek

LOCATION OF POLLUTION SOURCE BY MEANS OF NUMERICAL OPTIMIZATION

Steward Harison

RELIABILITY AND REDUNDANCY IN COMPLEX DIGITAL SYSTÉM

Eun Hee Lee

A Study on efficient transmission method Using Space-Time Block Code

17:00-17:30 **refreshment**

17:30-19:00 **Topic 7 - European Spatial Data projects**

Alessandro Annoni (JRC Ispra)

INSPIRE: technical aspects and links with Global Spatial Data projects

Daniel Rase (Eurostat, Luxembourg)

Spatial Data Infrastructure in Europe: State of Play

Pauknerova Eva (CAGI CR)

A Network knowledge Society Geographic Information Network in Europe

Max Craglia (University of Sheffield, UK)

Geographic Information Policy in Europe: a contested progress

Joep Crompvoets (Wageningen Univ., NL)

Survey Results of the Impact Study of INSPIRE-key data sets

Pasek Oldrich, Slaboch Václav (CUZK,

Governmental spatial data supporting national development

VUGTK CR)

Session II.

9:30-10:00 **coffee break**

Topic 8 - Digital Earth

10:00-12:00 Junjiro Takahashi
Fan Xiangtao, Shao Yun, Guo Huadong,
Wang Yonghong, Li Hongga, Zhu Lingfeng

Digital Earth--it's ideal, reality and future--Asian version takes off.
Study on Virtual Environment of Digital Earth Prototype System

Alexander Martynenko
Guo Huadong, Fan Xiangtao, Shao Yun,
Wang Changlin
Timothy W. Foresman
LIN Yu, Li Qi

THE EARTH KNOWLEDGE BASE AND GLOBAL INFORMATION SOCIETY
Introduction to Digital Earth Prototype System

3D Geobrowsers: Gateway to Digital Earth
A SIG-based Architecture of Digital Earth System

12:00-13:30 **LUNCH**

13:30-15:00 Hiromichi Fukui, Timothy W. Foresman
Bi Siwen, Wang Xiang, Luo Suqian, Jing
Dongsheng, Zhai Lijian
Thomas Schauer
Yong Xue, Jianqin Wang, Xiangyu Sheng,
Huadong Guo

Health Applications for Digital Earth
From Digital Earth to Digital Human Body - Concept, Framework, Connotation of Digital Human Body (Human Body System Digital Science)
Auf dem Weg zur Digital Earth ?
Building Digital Earth with Grid Computing Technology - The Preliminary Results

15:00-15:30 **coffee break**

15:30-17:00 Shin-ichi Sobue, Osamu Ochiai, Ryuzo
Yokoyama, Kaori Kuroiwa, Kawahito
Wang Qian, Xu Yanying, Luo Jianjun, Li
Weijian, Zhang Jixian
YANG Chong Jun, ZHANG Jing Dong, BAI
Xin, LIN Shao Fu, LIU Ning
Fan Xiangtao, Shao Yun, Guo Huadong,
Wang Yonghong, Li Hongga, Zhu Junjie, Zhu
Lingfeng

Introduction of Digital Asia Network

Construction of the Digital China

Digital Beijing Strategies and practise

Study on Urban Planning Simulation System of Olympic Green of Beijing, China

Session III.

9:30-10:00 **coffee break**

Topic 5 - Delivering services to citizens: From Web to Mobile

<p>10:00-12:00 Ravi Gupta Karel Charvat LI Qi, SHI Wenyong, LIN Yu QiLi, Jian Cao Pauknerova Eva Jiř Hájek</p>	<p>ICTs for the underserved communities: What role GIS has to play? Wireless Info – mobile applications according INSPIRE principles A New Architecture of Mobile Spatial Information Service System Research on the LBS (location based services) in E-business Delivering Services to Citizens: Changing Approach and Access to Geographic Information M2M or machine-to-machine applications and their future in the Czech Republic</p>
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12:00-13:30 **LUNCH**

<p>13:30-15:00 REINHARDT Wolfgang, KANDAWASVIKA Admire, SAYDA Florian, WANG Fei, WITTMANN Elmar Darracq Sonia Jiantao Bi, Tianhe Chi, Jianbang He Kaori Kuroiwa, Osamu Ochiai, Shin-ichi Sobue Lucio Colaiacomo, Christine Brönnner, Joaquin Pérez Andreu, Andrea Suatoni</p>	<p>Location Based Services to support citizens during recreational activities How to improve the use of soil geographic databases: GIS& Internet based tools Research on the Geography Information Services System Based on the Technology of Web Service Forest Monitoring Prototype System Using Web Mapping Technology Including GIS functionality in a JAVA and XML based systém</p>
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15:00-15:30 **coffee break**

<p>15:30-17:00 George Percivall, Lucian Plesea Ferjan Ormeling Vít Voženílek He ZhengGuo, LuJian Jiuxin Xing, Zhongxue Li, Jianbang He</p>	<p>WEB MAP SERVICES (WMS) GLOBAL MOSAIC the national atlas as portal for the national spatial data infrastructure GIS AND INTERNET WITHIN ATLAS PRODUCTION SOME KEY TECHNIQUES OF WEB GIS AND ITS IMPLEMENTATION Research on the Expression of Mine Spatial Data Based on the Network</p>
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Tuesday, September 23rd - Session I.

Keynote:

9:00-10:00 **Hana Ayala (Pangea World Inc., USA)** **THE ART AND POWER OF WELDING SCIENCE AND HERITAGE IN A KNOWLEDGE ECONOMY FOR THE 21ST CENTURY**

10:00-10:30 **coffee break**

Topic 1 - Data, Information, Knowledge, Technologies and Techniques

10:30-12:00 Scholten Henk, Dekkers Jasper, Camara Antonio, Van de Velde Rob Geospatial Virtual Environments, towards a new paradigm in geovisualisation

Lihua Zhao, Hongwei Lu

DATA INTEGRATION AND VISUALIZATION FOR A CRM SYSTEM: AN INTERNET-BASED SOLUTION

Lingfeng Zhu, Yun Shao, Xiangtao Fan, Huadong Guo

Study on Database Management for Large-Scale Virtual Scene Real-Time Simulation

Siwen Bi, Dongsheng Jing, Liyan Zhang

Preliminary Study on Building Standardization System of Digital Mine

12:00-13:30 **LUNCH**

13:30-15:00 Shuliang WANG, Wenzhong SHI, Deren LI **PRINCIPLES OF SPATIAL DATA MINING AND KNOWLEDGE DISCOVERY**

C. Senthil Kumar , J. Sridher

Priority Based Dynamic TCP Send Buffer Allocation

Lena Halounová, Josef Kalát, Stanislav Volf

GIS for creation of geodynamic model of mining areas

Nataša Uršič, Borut Jagarinc

Harmonised Geographical Information System for Mine Action in South East Europe

15:00-15:30 **coffee break**

15:30-17:00 Gottfried Konecny

Mapping from Space

Yu Fang , Xinming Tang, Wolfgang Kainz

A COMPOSITE METHOD TO GENERATE FUZZY LAND COVER OBJECTS FROM TM IMAGES

Fabio Volpe

MAPPING INFORMATION FROM SPACE WITH QUICKBIRD SATELLITE DATA

Temenoujka Bandrova

INNOVATIVE TECHNOLOGY FOR CREATION OF 3D MAP

Minfeng Chen, Qinmin Wang, Clive S.

DIGITAL PHOTOGRAMMETRY AND DIGITAL FUJIAN

Fraser

19:00-22:00 **Gala Dinner**

Session II.

10:00-10:30 **coffee break**

Topic 3 - Global society dialogue

10:30-12:00 Radermacher Franz-Josef

The Global Society Dialogue: Thinking about a Sustainable Global Future

12:00-13:30 **LUNCH**

13:30-15:00 Panellists: Thomas Schauer (Germany), David Levin (Russia), Felicia Olufunmilayo Akinyemi (Nigeria), Chen Shupeng (China), Raoul Weiler (Club of Rome)

Shahryar Eivazzadeh

National Boundaries in Cyberspace

Sanja Vranes, Terry Peterson

Innovative Technology Intelligence and Transfer Framework

Jonathan Cave

The distributional proposition for the information society

15:00-15:30 **coffee break**

Topic 2 - Global Sustainability: Concepts and Debates

15:30-17:00 Gunnar Misund, Knut-Erik Johnsen

Sustainable Technology for Global Sustainability

Jan Ahlskog

NEW PARTNERSHIPS FOR SUSTAINABLE DEVELOPMENT IN THE KNOWLEDGE ECONOMY

William B. Wood

GEOGRAPHIC INFORMATION, TECHNOLOGY, AND SCIENCES AS THE FOUNDATION FOR SUSTAINABLE

DEVELOPMENT RESEARCH AND IMPLEMENTATION

Jin-xin Wang, Fu-ling Bian

GIS---the Digital Models of Regional Sustainability

19:00-22:00 **Gala Dinner**

Session III.

10:00-10:30 **coffee break**

Standards Workshop - Co-sponsored by ISO/TC 211 Geographic information / Geomatics and the OpenGIS Consortium (OGC)

10:30-12:00 Henry Tom (ISO/TC 211) Standards for Enabling International Interoperability
David Danko (ESRI) ISO Metadata Standard - Overview and demonstration
Clemens Portele (Interactive-instruments) Geography Markup Language (GML) - Overview and demonstration

12:00-13:30 **LUNCH**

13:30-15:00 Vincent Dessard (IONIC Software) Web Map Server (WMS) & Web Feature Server (WFS) - Overview and demonstration
Peter Bartak (Intergraph) Intergraph Inputs to Interoperability - Overview and demonstration

15:00-15:30 **coffee break**

Topic 7 - Global Spatial Data Projects

15:30-17:00 Alan R. Stevens GLOBAL SPATIAL DATA INFRASTRUCTURE (GSDI): FINDING and PROVIDING TOOLS TO FACILITATE CAPACITY BUILDING
Borrero Santiago What barriers are blocking SDI in developing economies
John D. Evans A GEOSPATIAL INTEROPERABILITY REFERENCE MODEL
Ebener Steeve, Bray H el ene, Guigoz The Second Administrative Level Boundaries data set project (SALB) concepts, progresses and future
Yaniss, Chow Alice
Vaclav Cada, Josef Hojdar, Milan Martinek Reference and core data - is there still anything to taking care of ?

19:00-22:00 **Gala Dinner**

Wednesday, September 24th - Session I.

Keynote:

9:00-10:00 **Bérová Dana (Vice-Minister Ministry of Informatics CR)**

Michael Blakemore (Durham University, UK) **Discourse of data: Geographic Information, Society and Globalisation**

10:00-10:30 **coffee break**

Topic 1 - Data, Information, Knowledge, Technologies and Techniques

10:30-12:00 Jiri Golan, Michal Kucera, Jiri Machacek The Application of GIS in the Archaeology – intra and inter site analysis in Breclav - Pohansko, Czech Republic
Tang Aiping, Wen Aihua GIS AND EARTHQUAKE DISASTER ASSESSMENT
Laurence Waterhouse GeoScaN, the future of data acquisition
Marek Mlèoušek, Vratislav Mansfeld, Martin Pospíšil Forest Management Institute and its projects

12:00-13:30 **LUNCH**

13:30-15:00 **Topic 6 - Digital Cities**

Angela Ionita, Maria Visan, Marcel Foca Spatial Decision Support Systems – An approach for Intelligent Communities
QiLi, Jian Cao Study on the digital cities and location –based services -----from the perspective of urban system
Bengt Rystedt Terrestrial Laser Scanning for Documentation of Buildings.
HU Cheng-Fang OpenGL-based Digital City Modelling Method
Piotr Fogel, Jolanta Fiszczuk-Wiktorowicz Data bases in spatial planning on a local level.

15:00-15:30 **coffee break**

15:30-17:00 QiLi, Jian Cao

Dongsheng Jing , Siwen Bi, Liyan Zhang “Digital Beijing” and location based SARS control systém
Jaroslav Solc, Tereza Votockova Study of the Standard Architecture and contents of Digital City
LI Danning, Liao Xiaohan Prague Environmental Information System and Use of Geographical Data
Jonathan Li The Study on Strategy and Policy of Narrowing “The Digital Gap” in Guizhou Province
Gilberto Corso Pereira, Maria Célia Furtado IMAGE SOURCES FOR MAPPING 3D URBAN ENVIRONMENTS
Rocha SPATIAL KNOWLEDGE AND VISUALIZATION: THE SALVADOR CITY ATLAS

18:00-23:00 **Wine Cellar Excursion**

Session II.

10:00-10:30 **coffee break**

Topic 2 - Global Sustainability: Concepts and Debates

<p>10:30-12:00 Tom Tesch, Pol T. Descamps, Raoul Weiler Chen Shupeng Kerstin Lahser, Mario Dompke ABU M. WAHIDULLAH</p>	<p>The COSMOPAD modelling framework: Conceptual System Dynamics Model of Planetary Agricultural & Biomass Development*</p> <p>Bridging over the Digital Gap for Sustainable Development</p> <p>The Focus Topic "Public Procurement" in the Project "Roadmap for a Sustainable Development of Information and Communications Technologies"</p> <p>SPATIAL ANALYTICAL TECHNIQUE IN DEVELOPING A DIGITAL RIVER DATABASE WITH PARTICULAR REFERENCE TO A SOUTH ASIAN NATION'S FLOODING ISSUES –AN INTEGRATING APPROACH OF GEOSCIENCES, ELECTRONICS AND INFORMATION TECHNOLOGY IN NATURAL RESOURCES MANAGEMENT</p>
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12:00-13:30 **LUNCH**

<p>13:30-15:00 David John Wortley LIAO Ke, ZHENG Daxian, CHEN Wenhui, SHA Jinming Li Hongga, Fan Xiangtao, Shao Yun, Zhu Lingfeng, Zhu Junjie, Wang Yonghong Felicia Olufunmilayo AKINYEMI Svatoòová Hana, Vranka Pavel</p>	<p>The Role of Social Enterprise in Building Sustainable Community Networks</p> <p>Research and Design of Ecological Environmental Dynamic Monitoring and Management Information System in Fujian Province</p> <p>Real-time simulation of Large-scale flooding on Boyang Lake</p> <p>GEOGRAPHIC TARGETING INFORMATION SYSTEM (GTGIS): A PROTOTYPE URBAN POVERTY MANAGEMENT INITIATIVE FOR SUB-SAHARAN AFRICA</p> <p>Small Scale Digital Landscape Model – applications for monitoring and management of environmental processes in Haraska Watershed</p>
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15:00-15:30 **coffee break**

<p>15:30-17:00 Gershon Nahum Klenov, Valeriy I. Gertraud Peinel, Thomas Rose, Martin Sedlmayr Petr Dobrovolný, Jan Fukátko Walter H. Mayer I.A. Khlebovich, I.N.Rotanova</p>	<p>Storytelling and Mapping</p> <p>THE SIMULATION TECHNOLOGY FOR RIVER BASINS SUSTAINABLE MANAGEMENT</p> <p>APNEE - Air Pollution Network for Early warning and information Exchange in Europe</p> <p>DIGITAL MAPPING OF CLIMATE HISTORY OF THE CZECH REPUBLIC FROM DOCUMENTARY SOURCES</p> <p>Sustainability supporting agriculture and forest applications based on Gis</p> <p>REGIONAL MEDICAL-ECOLOGICAL MAPPING WITH THE USE OF GIS TECHNOLOGIES</p>
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18:00-23:00 **Wine Cellar Excursion**

Session III.

10:00-10:30 **coffee break**

Topic 4 - A Networked Knowledge Society

10:30-12:00 Vlastimil VESELY

Wolfgang Kainz

Jonathan Cave

Xiuhua Zhang

Building communities and knowledge networks in practice

INTEGRATION OF E-GOVERNMENT AND GEODATA POLICY: CHALLENGES AND OPPORTUNITIES

Economy - the 'e' in e-democracy

Enhancement of Knowledge Sharing via Enterprise Portal in Network-Based Knowledge Society

12:00-13:30 **LUNCH**

13:30-15:00 Růžena Zimová

Gertraud Peinel, Thomas Rose, Martin

Sedlmayr

Karel Charvat

Christiaan Lemmen, Paul van der Molen,

Peter van Oosterom, Hendrik Ploeger,

Wilko Quak, Jantien Stoter, Jaap

Zevenbergen

Wang Lei, Chi Tianhe, He Jianbang

HOW TO STRENGTHEN PUBLIC-PRIVATE CO-OPERATION IN THE FIELD OF GEOINFORMATION – A CASE STUDY OF NEMOFORUM

ENV-e-CITY – creating a marketplace for environmental data and services

Rural Wins as strategy for e rural policy

A modular standard for the Cadastral Domain

Digital Fujian and e-Government Information Sharing Platform

15:00-15:30 **coffee break**

15:30-17:00 Joel L. Morrison

Darracq Sonia

Vladimir Zidek, Martin Klimanek

Tien-Rein Lee

Changes in Education, Skills, and Training for 21st Century Spatial Data Cognizant Societies

INTEGRATION OF GEOGRAPHICAL INFORMATION SYSTEM IN THE PROFESSIONAL PRACTICES OF EUROPEAN LAND MANAGEMENT STAKEHOLDERS

Digital data and spatial technologies for Czech forestry students education

Managing university community by utilizing Digital Earth conceptual model

18:00-23:00 **Wine Cellar Excursion**

Thursday, September 25th - Session I.

Keynote:

9:00-9:30 **Ed Parsons (Ordnance Survey, UK)**

Mapping agencies - the customer in control

9:30-10:00 **Jeane Foust (ESRI, USA)**

Digital Earth: Implementing the Millennium Goals

10:00-10:30 **coffee break**

Topic 1 - Data, Information, Knowledge, Technologies and Techniques

10:30-12:00 Wenjun Xie

New Way to Visualize Our World----Agent-based Cartography

Jaromír Kolejka, Vladimír Pišek, Jan

Digital Landscape Model – an integrated tool for area management

Lihua Zhao, Hongwei Lu

USE OF DIGITAL DATA AND MAPPING FOR AUTOMOBILE MARKET ANALYSIS

Volosovich Anatoli, Gaevenko Aleksandr

Dominance of building of Ukrainian transport corridors on global Ukraine map

Sha Jinming, Yang Wunian, Li Xiaomei,

Using Remote Sensing in Land Resources' Exploitation In China

Mee Young Huh, Hong-Kee Kim, Jin Sung

Human Promoter Prediction by Neural Network

Jonathan Li

ASSESSING REMOTE SENSING SOURCES FOR AIRPORT MAPPING AND SAFETY APPLICATIONS

12:00-13:00 **Final Glass of Wine**

Session II.

10:00-10:30 **coffee break**

Topic 7 - Regional Spatial Data Projects

10:30-12:00 Gabor Remetey

Ulrich Boes, Raina Pavlova

Stefan Sandmann

Alan R. Stevens

Eva Mièietová, Milan Koneèný

Gilberto Corso Pereira, Maria Céilia Furtado

Rocha

Alvaro Medina Aravena

Evolution of an information and knowledge networked GI organisation - the case of Hungary.

Building and Exploiting a Regional Spatial Data Infrastructure The case of South East Europe

Topographic Information Service in North – Rhine Westphalia Quality protection of digital maps

US Federal Geographic Data Committee Initiatives: Geospatial One-Stop and Implementation Teams

Geographical informational resources, international standards and national infrastructure of spatial information in Slovak republic.

Geographical informational resources, international standards and national infrastructure of spatial information in Slovak republic.

THE NATIONAL LAND INFORMATION SYSTÉM BUILDING A NATIONAL GEOSPATIAL DATA INFRASTRUCTURE FOR CHILE

12:00-13:00 **Final Glass of Wine**

Thursday - September 25 th

Session III.

10:00-10:30 **coffee break**

ESRI - Workshop: Vision for the Emerging Digital Earth; Technical Approaches

10:30-12:00 Jeanne Foust

David Danko

John Calkins

12:00-13:00 **Final Glass of Wine**

Monday - Thursday

Vladimir S. Tikunov

Alexey V. Tikunov

G. A. Burba, V. P. Shashkina, N. N. Bobina, V. P.

Kryuchkov

Jitka Machalová

Irina A. Rodionova, Irina N. Tikunova

I.N. Rotanova, S.A. Mikhailov, A.A. Shibkikh

Wang Changlin, Yin Ning, Nie Yueping, Guo Shan,

Cheng Xiaoyun

Ji-Hyun Park, Jeong-Hyun Kim, Ki-Song Yoon

Park Joo-Sang

Yeon-Jeong Jeong, Ki-Song Yoon, Jae-Cheol Ryou

David Levin

Miroslav Kubásek

Sha Jinming, Li Xiaomei, Yang Wunian, Cai Qin

Leszek Litwin

Buravlev Y., Drych S

Hoffmann Frank

Poster Session

Integrated digital territory models for sustainable development

METHOD OF POTENTIALS AND WORLD SCALE MODELS

COMPARATIVE PLANETOLOGY DATA STORAGE CENTER AT VERNADSKY INSTITUTE, MOSCOW:

COLLECTION OF EXTRATERRESTRIAL MAPS AND CARTOGRAPHIC SOURCES

Definition of fuzzygeoelements in raster representation for decision-making

World rank of industry development level

PROBLEMS AND APPROACHES TO THE UNIFICATION OF CARTOGRAPHIC GIS INFORMATION IN

HYDROLOGICAL MODELLING

Research On Multi-sensor Remote Sensing Data for Archaeological Sites in Deserts of China

Secure MP4 Streaming

Designing Logistics System with Smart Tag – Internet Transport Logistics and Ubiquitous Computing

A Design and Implementation of Contents Distribution System based on the Digital Rights Management

ON A REALISTIC WAY TO GLOBAL SUSTAINABILITY

Web services for environment e-society

Research on Image Processing and Classification of Mountain Soils in Southeast China

APPLICATION OF ISDS AS PART OF THE GEOGRAPHICAL INFORMATION SYSTEM FOR PROTECTED HIGH MOUNTAINS AREA USING CASE STUDY OF CZERWONE WIERCHY MASSIF (TATRA NATIONAL PARK, POLAND)

Digital model of construction of open system of steady development

Show_case vs. Framework_methodology" - The challenges for more GI interoperability awareness at local & regional levels to built NSDI, ESDI and GSDI - A "status-quo" report for regional GeoDataInfrastructure developments in Saxony