Environmental Communication in the Information Society

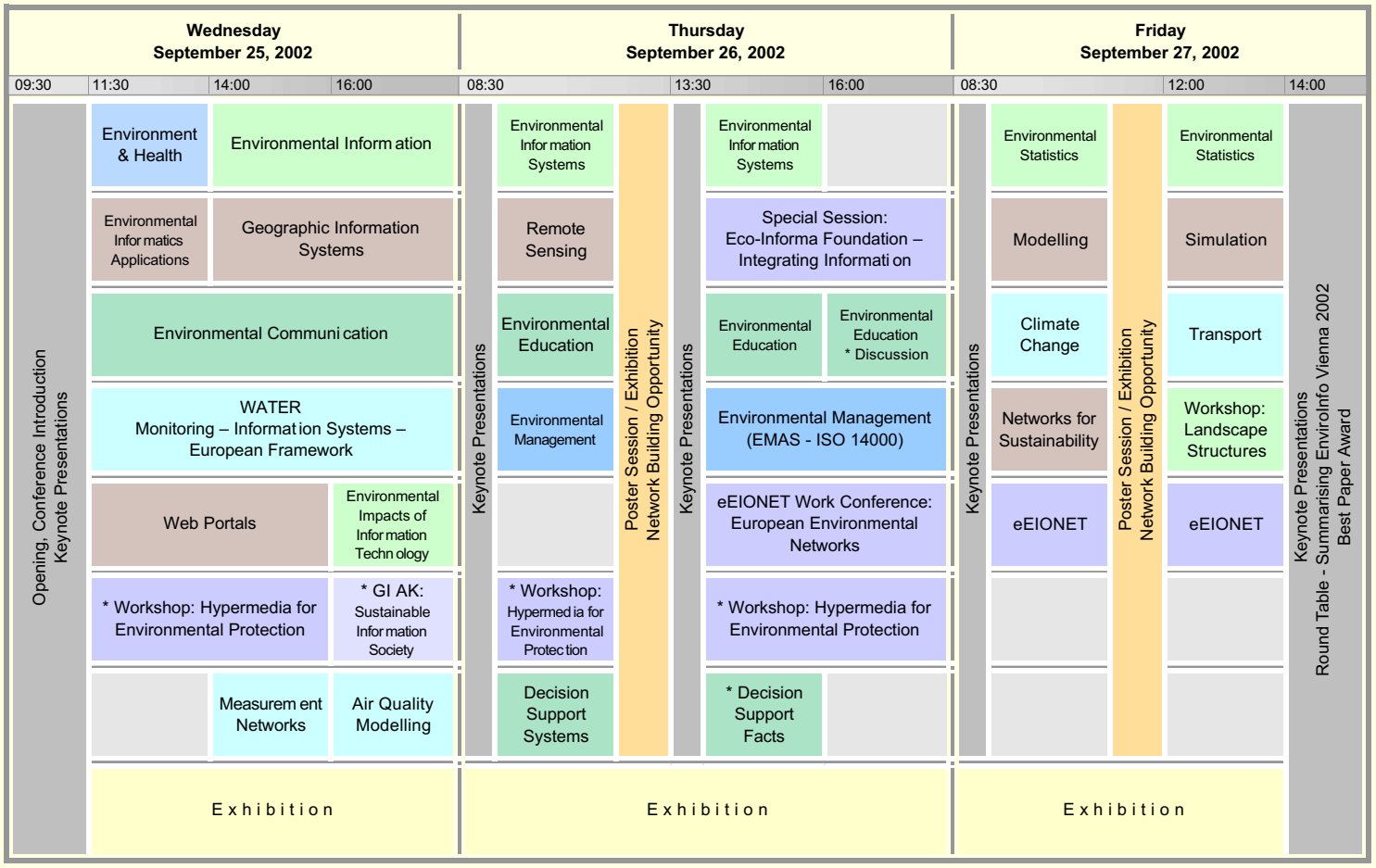
16th Internat. Conference "Informatics for Environmental Protection"
September 25-27, 2002, Vienna University of Technology

Federal Environment Agency Ltd.

UNEP Infoterra

European Environment Agency

Program Overview



ENVIROINFO VIENNA 2002

is a meeting place for experts from leading edge technologies, fostering information flows in Europe and beyond, necessary for a sustainable development. An international program committee selected 180 presentations and 60 posters from more than 40 countries covering nearly all aspects of the state of environment. Special workshops on Hypermedia applications and landscape structuring allow in-depth analyses and discussions. The best papers will be awarded.

Special Activities and Co-operations

- In co-operation with DG Information Society, a networking initiative for the European Commission's 6th framework program is one of the central activities planned in order to create new research partnerships.
- The European Environment Agency (EEA) organises the annual e-EIONET Work Conference 2002 (from September 26-28), in parallel to the conference.
- In a special session line Eco-Informa Foundation integrates information strategies to improve environmental decision-making, bringing in viewpoints from the United States.
- UNEP/INFOTERRA illustrates the superstructure of environmental communication in the light of the worldwide information exchange network UNEP.net.

Exhibition

A technical exhibition is organised next to the meeting rooms during the three days of the Symposium. Poster sessions are held in the exhibition area, coffee breaks are served in the immediate surroundings.

Social Program

Reception of the Mayor of Vienna at the Vienna City Hall on Wednesday, Sept. 25, 2002 (invitation free of charge)

Dinner at Technical University on Thursday, Sept. 26, 2002 (Price 22 Euro, payable at the beginning of the conference)

Travel - getting to Vienna

Euro City Trains from all European capitals and other major cities are serving Vienna's two main train stations, Westbahnhof and Südbahnhof. Check for train schedules: http://www.oebb.at Additionally, Bahnhof Wien Mitte is the major hub for local trains and underground lines (U3, U4) plus the line to the airport.

Vienna Schwechat Airport is served by international flights to/from all major destinations. There is a regular shuttle-bus service (Vienna Airport Lines, one way: € 5,80, round-trip € 10,90) from Vienna airport to the city centre (Wien Mitte Hilton Air Terminal), 24 hours a day, every 30 minutes (time tables available on http://english.viennaairport.com/bus.html).

Taxis from the airport are also available (about 24 €). The train connection is rather uncomfortable at the moment due to construction works. (time tables available on http://english.viennaairport.com/train.html)

The official carrier of the conference, Austrian Airlines, Tyrolean Airways and Lauda Air offers special fares.

Conference Fees

Standard Rate	€ 390
Reduced Rate*	€ 290
Student ticket**	€ 120
1day ticket**	€ 120

The fee includes: Attendance, proceedings, lunches, drinks during breaks, ticket for Vienna public transports from Sept. 25-27, 2002

Proceedings volume only (available starting Sept. 25): € 68
* for GI-FA 4.6/ other GI members, authors, CEE countries
** price without proceedings

On-line Registration and latest information:

http://enviroinfo.isep.at

Contact ISEP:

Int. Society for Environmental Protection
Tel. +43 (01) 715 2828-0, Fax: -19
Email: enviroinfo@isep.at

Conference Venue

Center with City air terminal, subway stations, conference site and Rathaus

City map detail around Karlsplatz

University of Technology, Wiedner Hauptstrasse 8-10

Aereal image Karlsplatz, underground exit U1, U2, U4

Official Carrier:

Sponsored by:

ENVIROINFO VIENNA 2002

September 25 - 27
Technical University of Vienna

PRELIMINARY PROGRAM

Keynote Presentations

Alcamo J.
Global Change Meets Global Politics: The Role of Environmental Informatics

Boch W.
Environmental Information Services for Citizens

Cunningham G.
UNEP.Net – A Global Initiative to Deliver Environmental Information from Disparate Source to a Diverse User Community

Jensen S., Saarenmaa H., Jock M.
Infrastructure and Tools for a European Environmental Information System – The Contribution through Reportnet

Latif M.
Communicating Climate Research

Morgan K.
Remote Sensing for Smarter Urban Environments

Pillmann W.
Modelling European Environmental Communication – Information Flows Supporting Decisions towards a Sustainable Development

Radermacher F.-J.
Balance or Destruction: A Global Eco-social Market Economy as a Key to Sustainable Development

Seifert E.
Challenges and Approaches for Sustainability Communication in the Information Society

Air Quality Modelling

Kaiser A., Mirtl M., Scheifinger H., Spangl W.
Analysis of Long Range Air Pollutant Transport Using Trajectory Residence Time Statistics

Rau G., Baumann K., Polreich E., Langer M.
Transport Modelling Applications for Different Scales

Garcia J., Colosio J., Jamet P.
Air Quality Indexes

Bojkovska R., Dimitrovski M., Stafilov T.
Air Quality Modelling for Skopje, Republic of Macedonia

Reis S., Friedrich R., Nitter S.
On the Use of Abatement Cost Curves in Integrated Assessment Modelling – Implications of Dealing with Multi-pollutant Multi-effect Problems

Climate Change

Biegger S., Hoelzle M., Frei U., Nuesch D.
Analysis and Communication of Glacier Simulations Using Interactive Visualisation: A Case Study

Wagner W., Kidd R., Nilsson S., Jonas M., Hoffman C.
Verification of Land-use, Land-use Change and Forestry Activities as Specified by the Kyoto-Protocol: The Role of Remote Sensing and GIS within a Scientific Verification Concept

Enzensberger N., Fleury A., Fichtner W., Rentz O.
Energy System Analysis Models for Climate Change Mitigation and Clean Air Strategies

Solberg R.
EuroClim: Monitoring the Cryosphere to Improve Climate Change Modelling

Decision Support Systems

Denzer R., Derschang M., Güttler R., Hell T., Schlobinski S.
Integrated Spatial Decision Support

Endejan M.
A Software Architecture for Integrated Assessment Models – Design and Implementation

Orlowski C., Tubielewicz A.
Integration of Environmental IT Projects on the Example of Aidair and Ecosim

Peralta A., Libia P.
Interdisciplinary Support Tool for Decision Makers in the Atlantic Forest of Southern Brazil

Decision Support Facts
(in German only)

Wittmann J. et al.
Diskussion: Nutzbarkeit Entscheidungsunterstützender Systeme

Eco-Informa Foundation Special Session: Integrating Information for Environmental Decisions

Bowlus D.R.
The Fear of Anthrax Exposure – A Communication Challenge Case Study at the Pentagon's DiLorenzo TriCare Health Clinic

Armbruster W.
Information for International Food Safety

Tochtermann K.
Knowledge Management for Environmental Policies

Burgess T.
Biosphere2 – Climate Change: Scientific Communication and Education Lessons Learned

Whicker W.
Radioactively Contaminated Sites: Scientific Information for Smarter Decisions

Waggitt P.
Communicating with Traditional Landowners on Uranium Mine Rehabilitation

Wells S.
Community Involvement in Environmental Decisions

MacDonell M.
Integrating Information to Assess Cumulative Risks

Hutzinger O., Newland L., Lorup E., Ditmars J.
Panel: Environmental Information & Communication: Where Do We Go from Here?

eEIONET Work Conference

Agents, Communication and Ontologies

Haastrup P., Würtz J.
Environmental Management of Water Data in EU Using Agent Technology

Angrick M., Bös R., Rüther M., Bandholtz T.
A Taxi in Knowledge Land

Briesen M., Hofmann C., Otterstätter A., Nikolai R., Mirtl M., Schentz H., Vogel W., Weber K.
Datenintegration im Umweltmonitoring

Visser U., Vögele T.
Spatio-Terminological Information Retrieval Using the BUSTER System

Kruse F., Karschnick O., Spöringer A., Eichler M., Behrens S.
The UDK, Present Status and Future Development, an Overview

Basics for Networking

Heinlaid J.
Metadata, Schema Registries and Data Dictionary in Reportnet

Palosou E.
Country Related Services in Reportnet

Carotenuto M., Marinelli M.
CARISMA – A Tool for Sharing Environmental Information Resources

Kraszewski A.
EkoInfoNet Information System for State Monitoring of Environment in Poland

Tools for Common Needs

Batschi W.-D., Felluga B., Legat R., Plini P., Stallbaumer H., Zirm K.L.
„SuperThes": A New Software for Construction, Maintenance and Visualisation of Multilingual Thesauri

EIONET 1
Country Contribution 1

EIONET 2
Country Contribution 2

Norup B., Roug S.
Data Repositories for Reporting

Bulandra M.
European Portal Toolkits

Networking: Web Services for International Reporting

Panel
Panel to Enable the Consortium Building for a Proposal to DG InfoSoc under the 6th FWP

Environment and Health

Fehr R. (invited)
Health Ecology

Fülöp G. (invited)
„Environmental" and other Determinants of Health – Conclusions from the Austrian Health Information System (ÖGIS)

Briggs D. (tentative)
GIS to Model Personal Exposure to Air Pollution from Road Traffic (Working Title)

Beale L.
A GIS-based Route-planning Tool for Disabled Access in Urban Environments

Environmental Communication

Dialogues

Schulz W., Burschel C., Gutterer B., Kreeb M., Krcmar H.
Implementing an Environmental Management Web-Portal

Schlatter A.
Corporate Environmental Dialogue – Understanding the Social Communication Process as a Key Success Factor for Real Change and Improvements

Peinel G., Rose T., Sedlmayr M.
Air Quality Portals: Engineering Citizen-centred Service Chains for the Dissemination of Air Quality Information

Buurman K., Simons S.
Dataflow Visualisation: Communicating, Planning and Tracing the Integrated Environmental Assessment Process

Digital Media

Isenmann R., Lenz C., Müller-Merbach H.
The Future of Corporate Environmental Communication: Trends, Contents, Media, Technologies

Naumann S.
Supporting Regional Sustainable Development by IT-Assisted Communication and Cooperation

Kremers H.
Sociology of Agents in Sustainable Development

Information Distribution

Péti M.
Environmental Information in the Regional Development Decision Making

Dumitrescu O., Popescu L.N.
Good Data Lead to Improving Water Condition

Maguire M.C.
User Requirements and Reactions to Forest and Climate Change Information Systems

Arnfalk P.
The Role of ICT Based Communication from a Pollution Prevention Perspective

Gralewski Z.A.
FORFAIT – Forest Fire Risk and Hazard Assessment – A Holistic Approach

Environmental Education

Herget M.
Complexity: A Challenge for Education for Sustainability

Allinson J., Rössig M., Scholles F., Winter J.
Setting Up a Web Supported Environment for Distance-Learning – The MICCPAM Experience

Schlatter-Schober P.
Environmental Education at School – How to Manage the Change Process towards a Real Ecological and even Sustainable Behaviour of Schools

Sarwar I., Demyanenko V., Sarwar R., Stepanuyk S., Petlovanyy P.
Quality Assessment in Multistep Environmental Education

Simon S., Fisher J.
Information and Communication Technologies, Citizens, Entitlement and Environmental Policy Processes

Gerbilsky L., Staroseletska O.
Knowledge Integration, Environmental Informatics and Environmental Education

Lessa Filho I., Coelho C. de S.R.C., Pereira Fialho F.A., Sant'Ana C.
Computational and Media Resources in Adult Environmental Education: A Case Study to Automobilist Sector in Curitiba's Metropolitan Region - Brazil

Environmental Education – Discussion (in German only)

Wittmann J.
Learning Systems for Environmental Informatics

Bach M., Bergstedt S.
Arbeitstitel: Softwareplattformen für Lernsysteme

Wiegreffe S.
Arbeitstitel: Lernsystem Prototyp

Environmental Impacts of Information Technology

Lahser K., Dompke M., Weigmann U.
Roadmap of the Prospects of Shaping the Development of Information and Communications Technologies

Langrock T., Ott H.E., Dworak T.
Towards more Sustainable ICT-products: A Snapshot of Policies and First Indicative Evaluation Results

Hinterberger F., Mesicek R.
Dematerialisation, Rebound Effects and the Digital Divide – An Outlook on the Positive Influences Current Dematerialisation and Miniaturisation Trends Could Have on a Global Level

Schechtner K., Nowotny B.
Indicators Accompanying the Introduction of Transport Telematics Systems on National Level

Williams E.D., Ayres R.U., Heller M.
Life Cycle Energy and Chemical Consumption in Production and Use of a 32MB Memory Chip

Environmental Informatics Applications

Kazakos W., Valikov A., Schmidt A., Lehfeldt R.
Automation of Metadata Repository Development with XML Schema

Marinelli M., Iannucci C.
SPINA: A 3-layer SW System to Support the Planning and Evaluation of the Field Activities

Campos dos Santos J.L., de By R.A.
XML-based Metadata Management for Biological Data

Lenz C., Isenmann R., Krüger M., Marx Gómez J.
Standardisation of XML-based DTDs for Corporate Environmental Reporting: Towards an EML

Environmental Information

Knoflacher M., Dumreicher H., Kolb B., Kopcsa A.
Integrated Method for Extraction of Environmental Information from Research Reports

Knol O., ten Brink B.
INIS, an Information System to Support the Calculation of the Natural Capital Index (NCI) in The Netherlands

Ruzicka R.G.
eHIS InterStore: E-Commerce with Environmental Data

Rother M.
Contributions to an On-line Exchange of Environmental Data

Engelmann A., Eriksson H.-B., Halbäcken L., Morén A.-S., Nisell J., Tuoremaa L., Wiederholm T.
A Web-based Information Service for the Follow-up of Swedish Environmental Objectives

Schulze B.
Enterprise Resource Planning – Systeme als Plattform betrieblicher Umweltschutz- und Arbeitsschutzaufgaben am Beispiel von SAP EH&S

Flor E., Freitag U., Hrebicek J., Jancarik A., Karigl B.
First Steps and Experiences in European Cooperation for Waste Management

Mochty F., Wolfslehner E., Rosenberger E., Steiner G.
Electronic Data Management in Austrian Waste Management Act 2002

Environmental Information Systems

Düpmeier C., Geiger W.
Theme Park Soil: A Case Study for Using Template Technology in Web-based Environmental Information Systems

Roenick C.
Informationssysteme für den Umweltschutz auf kommunaler Ebene – Von der Unterstützung des Vollzugs zum UIS für Verwaltung und Öffentlichkeit

Gömann H., Julius C., Kreins P.
Quantifying Impacts of Different Agri-environmental Policies on the Environment Using the Regional Agri-environmental Information System RAUMIS

Lukacs G., Otterstätter A., Hofmann C., Lienau G., Neumann H., Schuchardt V., Weber D.
Das übergreifende Fachinformationssystem für Wasserwirtschaft (FIS-W) des Landes Niedersachsen

Braun R., Russ M., Krcmar H.
Web-based Tools for the Environmental Management Indicator

Bareth G., Zhenrong Y., Doluschitz R.
Set-up of a GIS-based Regional Agricultural Environmental Information System (RAEIS) in China

Ondra N., Haselberger R.
GEORD – Eine offene Data Warehouse Architektur für Umweltdaten

Roy W., Assem A.
Development of Monitoring and Assessment Database System (EDMRAS) for War Related Environmental Damages in Kuwait

Environmental Management

Applications

Rieg R., Jürgens G.
IT-supported Evaluation of Eco-efficiency Potentials in Chemical Processes Discussion of Experiences in the Pharmaceutical Industry

Schultmann F., Engels B., Rentz O.
Cleaner Technology by Using Flowsheet-Simulation for Decision Support in Process Industries

Kakaras E., Giannakopoulos D., Hatzilau C., Droskakis M., Angelopoulou A.
A Decision Support Tool for the Selection of Clean Technologies in Industry

Campos L., Selig P., Ghizzo M.
A Model of Environmental Management System (EMS) Using the Balanced Scorecard (BSC)

Communication

Wagner M.
The Influence of Certified Environmental Management Systems on the Environmental and Economic Performance of Firms

Martinuzzi A., Tschulik A., Pecher A.
EMAS als Instrument der Umweltkommunikation

Gondran N., Brodhag C.
Proposition of a Method to Diffuse Environmental Information to SMEs – Application to the French Context

Breuer C., Martinuzzi A.
Internet-basierte Maßnahmendatenbank als Controlling-, Evaluations- und Kommunikationsinstrument für Umweltprogramme

Strategies

Coelho C. de S.R.C., Pereira Fialho F.A., Bessa Rebelo L.M., Sant'Ana C., Ferreira E.
Prize Competitions as a Source of Environmental Strategies: Case Study – Premium Expressão de Ecologia

Geldermann J., Schollenberger H., Rentz O.
Linking Mass and Energy Flow Analysis with Time Management

Opierzynski R., Müller F.
Environmental Performance Indicator Systems for Industries – Experiences and Applications in ASEAN Countries

Beucker S., Lang C., Rey U.
Computer Aided Resource Efficiency: Assessing and Communicating Environmental Impacts and Costs by the Exchange of Material Flow Data between ERP Systems and Environmental Management Information Systems

Quack D., Oley M.
Environmental Advantages of Video Conferencing Systems – Results from a Simplified LCA

Environmental Statistics

Kolehmainen M., Junninen H., Niska H., Patama T., Ruuskanen A., Tuppurainen K., Ruuskanen J.
Missing Data Toolbox for Air Quality Datasets

Grimvall A.
Estimation of Human Impact in the Presence of Natural Fluctuations

Libiseller C., Nordgaard A.
Variance Reduction for Trend Analysis of Hydrochemical Data in Brackish Waters

Walde J., Tasser E.
Identifying Significant Determinants for Canopy Development on an Alpine Test Site by Means of Artificial Neural Networks

Osinski E., Kantelhardt J.
Ökologisch-ökonomische Charakterisierung von Landschaften als Voraussetzung für eine Honorierung umweltgerechter Landbewirtschaftung

Hanauer J.
NAMEA Austria National Accounting Matrix Including Environmental Accounts

Esterby S.R. (invited)
Envirometrics (Working Title)

Geographic Information Systems

Knetsch G., Schröder W.
Networking of GIS and Geostatistics for an Environmental Monitoring System in Germany

Flacke J.
An Information System for Sustainable Settlement Development

Schönhuber P., Patek M.
Management of Torrent Catchment Areas Between Natural Hazards Prevention and Ecological Development Perspectives

Netherer S., Pennerstorfer J., Kalasek R., Riedl L.
Spatial Analysis in Forest Protection Using the Visual Modelling Tool MapModels

Banko G., Aubrecht P.
The European Initiative CLC2000 and its Implementation in Austria Using Mobile Technologies

Almer A., Zeiner H., Luley P.
National Park Information System

Hansen C., Tolotti M., Ettinger R., Thies H., Tait D., Psenner R.
The Application of Geographic Information Techniques for Data Synthesis and Evaluation of Remote High Mountain Lakes in the Lake District Tyrol (Austria & Italy)

Fitzke J., Müller M.
Environmental Data Infrastructures

Diamandakos M., Prastacos P.
Flood-View: A Library of GIS Procedures for Visualizing Flood Models Results

HU AK Workshop: Hypermedia im Umweltschutz (in German only)

Umweltinformation im Internet

Riekert W.-F., Tochtermann K.
Einleitung

Manderfeld C.
Umweltinformationen im Internet – Ein „State of the Art"-Bericht

Schauer T.
From Information Overflow to Interaction Challenges for Environmental Information Management

Behrens S., Nikolai R., Kruse F., Karschnik O.
Informationsvernetzung am Beispiel des WWW-UDK

Umweltmanagement

Isenmann R.
Integrated Environmental Reporting: Strategies for Employing Internet and Hypermedia Productively

Keitel A., Reimann A., Franke W., Neidlinger M., Haase M.
Der Umweltzustandsbericht „Umweltdaten 2000" des Landes Baden-Württemberg für das WWW

Schulz K.-P., Keitel A., Dombeck T., Westbombke J., Haase M., Otterstätter A.
WAABIS Objektartenkatalog Online

Korduan P.
Beitrag zur Verbesserung der Zugänglichkeit von Umweltrelevanten Daten aus dem Precision Farming

Umweltberichterstattung, Metadaten

Ebel R., Keitel A., Mayer-Föll R., Dombeck T., Schultze A., Westbomke J., Haase M.
Ein Metadatenkonzept für das Umweltinformationssystem Baden-Württemberg

Jessen H., Schneberger S.
Der Umweltatlas Schleswig-Holstein

Riedl L., Kalasek R., Kramer K.
Das Fachinformationssystem FIS der Umweltschutzabteilung der Stadt Wien – Ein Flexibles Internet-basiertes System für Umweltdaten

Weihs E.
About the Integrated View of Specialist Information Systems with XML

Einsatz geographischer Informationssysteme

Arndt H.-K., Günther O.
Stoff- und Energiebilanzierung von Organisationen: Eine Synthese aus DIN EN ISO 14031 und DIN EN ISO 14040-14043

Schnatmeyer M.
Web-supported Knowledge-based Decision-making for the Disposal of WEEE

Melle M.
Verteilte Geowissenschaftliche Modellberechnung im Internet – Anwendung der Peer-To-Peer-Architektur für das CoForm-Modell zur Berechnung der Oberflächentemperatur in Windschwachen Strahlungsnächten

Göbel S., Jasnoch U.
InGeo Information Center: Personalisierter Zugang zu Geodaten-Archiven

Fachverfahren und Personalisierung

Steinhau R., Freitag U.
Evolution Moderner Fachverfahren durch Konsequente Modellbasierung und Konfiguration

Storch H.
Personalisierung von Umweltinformationen: Konzeptionelle Anforderungen an Mobile Personalisierte Dienste in Zeit-räumlichen Kontexten auf der Basis von Individuellen Umweltbewertungsmodellen

Hilbring D.
3D Grundwasseranalyse von Bauvorhaben mittels GeoPro3D

Mirtl M., Schentz H.
Strukturen und Funktionen zur Abbildung interdisziplinärer Langzeitprojekte im Bereich von Ökosystem-Monitoring und –Forschung: Der Weg zum Hauptmenü von MORIS / Das objektrelationale Softwarepaket MORIS

GI Workshop: Sustainable Information Society (in German only)

Göhring W., Hilty L., Isenmann R., Paetau M. et al.
GI Arbeitskreis "Nachhaltige Informationsgesellschaft" GIANI

LRG Workshop: Landscape Ecology, Remote Sensing and Graph Theory

Schneider W.
Knowledge Based Methods of Analysis of Remotely Sensed Images for Landscape Ecology

Steinwendner J.
Graph-theoretic Issues in Remote Sensing and Landscape Ecology

Grillmayer R.
Landscape Structure Model

Measurement Networks

Schimak G.
Ambient Air Quality Data Management and Data Integration

Wald L.
SoDa: A Project for the Integration and Exploitation of Networked Solar Radiation Databases

Hürster W.
Computer Networks for Crises Management in Case of Environmental Disasters and Related Types of Threats

Skritek P., Stadler H.
Environmental Data-Transmission Using Low Earth Orbit Satellites

Modelling

Gnauck A., Luther B., Heinrich R.
Modelling and Simulation of Internal Pollution of Shallow Lakes

Probst F., Lutz M., Kuhn W.
Ontologies for Plant Communities – A New Approach to Knowledge Representation in Vegetation Science

Schönke U., Köchel P.
The Utilisation of Natural Resources under Environmental Aspects Exemplified by a Model of Silviculture

Deilmann C.
Modellierung der Stoffströme zukünftiger Siedlungsentwicklung

Networks for Sustainability

Reents G.
Carpooling in Commuter Traffic Aided by an Internet Communication Platform

Posch A.
A Management Information System (MIS) for 'Sustainability Networks'

Kolibius M., Nachtmann M.
Öko-Online-Marketing – Strategien und Erfolgsfaktoren

Bußwald P., Niederl F., Jakubowicz D., Schuh B.
Futuro – A Sustainable Consumption Network

Remote Sensing

Trommler M., Wagner W., Scipal K., Kidd R.
Scientific Information Portal in the World Wide Web: The Global Soil Moisture Archive 1992 - 2000 from ERS Scatterometer Data

Ries C., Pillmann W., Kellner K., Stadler P.
Urban Green Space Management Information – Processing and Use of Remote Sensing Images and Scanner Data

Piringer M., Baumann K.
Remote Sensing in Urban Areas – Recent Advances

Chevrel S., Belocky R., Grösel K.
MINEO (Monitoring and Assessing the Environmental Impact of Mining in Europe Using Advanced Earth Observation Techniques)

Simulation

Huber S., Bareth G., Doluschitz R.
Integrating the Process-based Simulation Model DNDC into GIS

Gebetsroither E., Strebl F.
Modelling in Time and Space (MTS) – A Regional Nitrogen Model Implemented with ARC VIEW and VENSIM

Köster F., Finke J., Frank K., Sonnenschein M.
An Information System for the Management of Ecological Simulations

Transport

Tomassini M., Heich H.-J., di Taranto C.
The HEAVEN Approach to Environmental Assessment of City Wide TDMS

Nowotny B., Schechtner K., Zajicek J., Winiwarter W.
Floating Car Data as Data Source for Modelling of Air and Noise Pollution in Regions with High Traffic Density

Höfler L.
Sustainable Transport – From Catchword to Strategy

Water

European Framework

Haase M., Braun P., Kröger J., Stegmaier A.
A GIS-based Information System for Managing and Analysing Profile Information for the Use in the Water Management Authorities within the State of Baden-Württemberg

Brudy-Zippelius T., Kämpf C., Liebert J., Ihringer J.
Operable Water Quantity Model System to Support Water Quality Management in a River Sub-Basin

Vogel W.R.
The EU - Water Framework Directive – A Challenge for Information Management

Usländer T.
Layered Information System Architecture for the Implementation of the European Water Framework Directive

Information Systems

Konieczny R., Siudak M.
Flood Knowledge and Sharing of Experiences via Internet

Etelämäki L., Harju K.
GIS and Water Supply

Wismer D.
Web-based Environmental Information System (EIS) for Integrating and Visualizing Water Quality Data

Bazartseren B., Hildebrandt G., Holz K.-P.
Web-based Hydroinformatics Application for Real-time Water Level Presentation and Short-term Prediction

Monitoring

Dreher J., Kruszewski A., Niedbala J., Niwinski J.
System of Hydrology – A Hydrological Monitoring, Forecasting and Warning System for Poland

Schwarz U., Jensen S.
A Floodplain Inventory for the Danube River Basin Based on GIS and Satellite Technologies, with a Special Focus on Geo-referenced Digital Videography

Pečar-Ilić J., Ružić I. (invited), Skočir Z.
Object-relational Database as a Data Source for Interactive Dynamic Web Application

Gnauck A., Heinrich R., Luther B.
Water Quality Management of a Sub-Watershed of the River Elbe

Web Portals

Jarvis C., Kupiec J.
Accessing Public Sector Environmental Data & Information: Development & Demonstration of a National Portal

Karatzas K.
ENV-E-CITY ENvironmentally Viable Electronic CITY

Laihonen P., Salo J., Kalliola R.
The Clearing House Mechanism and the Global Biodiversity Information Facility – Is There a Common Future?

Chu Y.-C., Young C.-Y., Yang C.-C.
Integrating Environmental Information through Data Warehousing with Data Quality Assurance

Hartmann J., Stuckenschmidt H.
Automatic Metadata Analysis for Environmental Information Systems

Radetzki U., Alda S., Bode T., Cremers A.B.
First Steps in the Development of a Web Service Framework for Heterogeneous Environmental Information Systems

Barszczyńska M., Grela J., Kubacka D., Łasut E.
The Polish Implementation of AQUADOC-INTER Project