


E-Learning with EuroSDR

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and Geoinformatics



Motto and goal

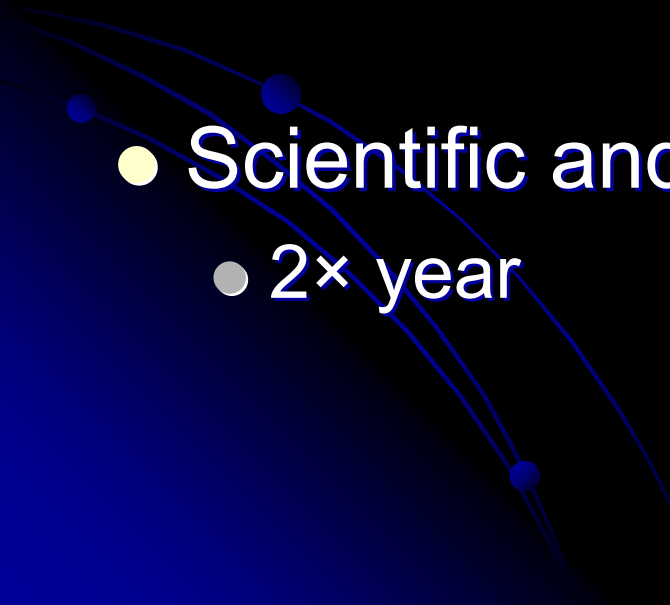
- „Learning by doing”
 - Distance learning
 - courses for EU and non-EU country students
 - with a short introduction and social programs
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About the organisational beginning


- OEEPE (Organisation Européenne d'Etudes Photogrammétriques Expérimentales) → European Experimental Photogrammetric Organization



Membership

- National Mapping Agencies (NMAs) + academic sphere
 - In 2004: 17 member states
 - Scientific and administrative meetings
 - 2× year
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The transition

- 2003-2005
 - New name: EuroSDR (European Spatial Data Research)
 - not-for-profit organization under Irish company law
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Role of Hungary

- Till 2003: Observer
- 2004: organizer of EduServ2
- From 2005: member (1/7 new legal status)
 - [A,B,D,SF,H,S,GB]

Aims

- Research & development in production and dissemination of geospatial data, promote applications
 - Interaction & cooperation in research and public-private sector, idea exchange and result transfer
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Leadership

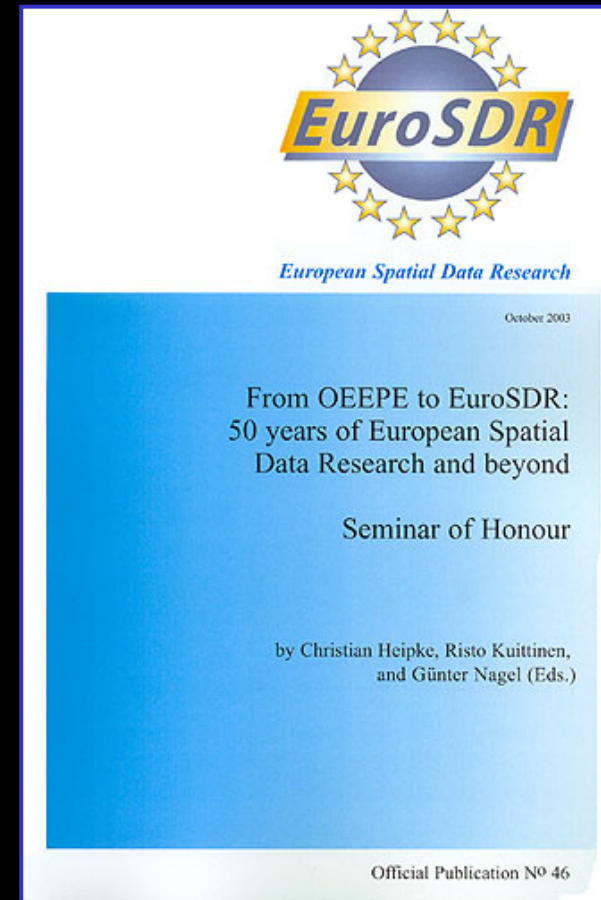
- President (elected for 2 years): Keith Murray (OS)
- Science committee chairman: Christian Heipke (Uni Hannover)
- Secretary general: Kevin Mooney (DIT)
- Executive team: + commission chairmen
- Steering committee: + national delegates and project leaders

Scientific commissions

1. Sensors, primary data acquisition and georeferencing
2. Image analysis and information extraction
3. Production systems and processes
4. Core geospatial databases
5. Integration and delivery of data and services

Official publication

- Publication office:
BKG



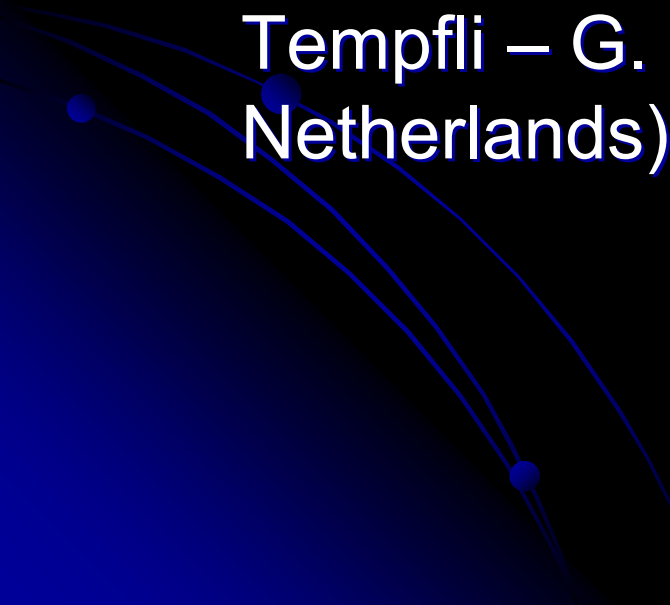
Recent research topics

- InterSENSOR-0
- DirecTRUST (reliability of INS/GNSS orientation)
- NewPLATFORMS: Unconventional Platforms for Remote Sensing
- Automated Extraction, Refinement, and Update of Road Databases - from Imagery and other Data
- Automatic Tree Extraction
- EuroSDR Sensor and Data Fusion Contest - Comparison of the Map Information Content of Airborne SAR and Optical Image Data
- Automated Change Detection
 - Detection of buildings for cadastral maps
 - Procedures and Methods for Automated DTM Quality Control
 - The Digital Camera Calibration Network
 - Evaluation of building extraction - from imagery and laserscanning data
 - State-of-the-art in Generalisation

Educational service

- Educational Taskforce
 - EduServ1: Aalborg University (2002)
 - EduServ2: Budapest (2004)
 - EduServ3: Dublin (2005)
 - EduServ4: Enschede (2006)
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EduServ1 courses

- A. Integrated sensor orientation (C. Heipke – K. Jacobsen, University of Hannover)
 - B. Orientation of aerial images on database information (J. Höhle, Aalborg University)
 - C. Laserscanning and interferometric SAR (K. Tempfli – G. Huurneman, ITC Enschede, The Netherlands)
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Training materials (on the web)

index.htm - Microsoft Internet Explorer

Ejer Rediger Vis Foretrukne Funktioner Hjælp

Tilbage Fremad Stop Opdater Startside Søg Foretrukne Oversigt Post Udskriv Rediger Diskuter RealGuide

Adresse http://www.i4.auc.dk/~p/eduserv/homepage/ProjectB/course_b_material/index.htm Gå Links

Course B: Automated Orientation of Aerial Images on Database Information

Content of course:

- [1. Orientation of images](#)
- [2. Matching techniques](#)
- [3. Automatic orientation \(AO\)](#)
- [4. AO using vector data](#)
- [5. AO using orthoimages & DEM](#)
- [6. The OEEPE test](#)
- [7. New developments](#)

[Literature](#)
[Self-evaluation](#)
[Learning program "LDIPInter"](#)
[Learning program "AutoOrient"](#)

Contacts:

[Receive Tasks](#)
[Send solution and answers](#)
[Examination](#)



Learning program "Auto_Orient"

(Automated orientation of aerial images on database information)

Select a theme:

- [Theme 1: Extraction of road crossings from a map/database](#)
- [Theme 2: Derivation of templates](#)
- [Theme 3: Extraction of templates from an existing orthoimage](#)
- [Theme 4: Derivation of search areas](#)
- [Theme 5: Influence of the Digital Terrain Model](#)
- [Theme 6: Quality control](#)

Main Information Help Quit

EduServ2 courses

- A. Integrated sensor orientation (C. Heipke – K. Jacobsen, University of Hannover)
- B. Image orientation with GIS data (J. Höhle – M. Potucková, Aalborg University)
- C. Laser scanning and interferometric SAR for DTM generation (K. Tempfli, G. Huurneman, ITC Enschede, The Netherlands)
- D. Digital cameras/sensors and data fusion (B. Csatho – C. Toth, The Ohio State University, USA)

Certificate

CERTIFICATE OF ATTENDANCE



European Organization for Experimental Photogrammetric Research

Aalborg, Denmark
15 November 2002

CERTIFICATE OF ATTENDANCE

This is to certify that

Isabel Sargent

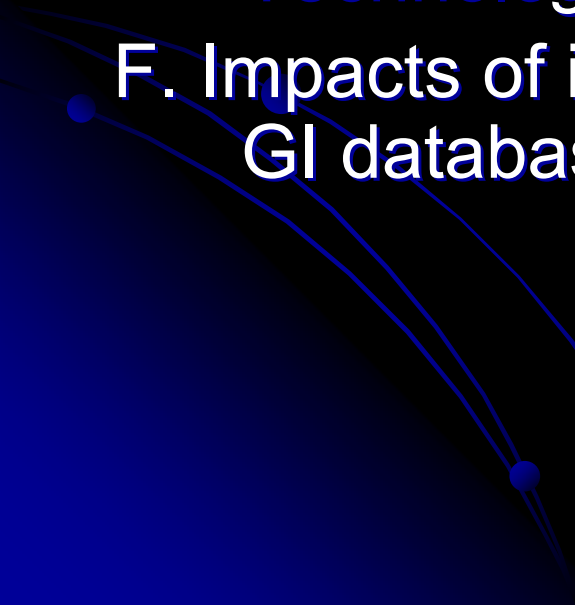
has successfully attended:

1. The **OEEPE Education Seminar** held in Aalborg, Denmark on 10 and 11 October 2002:
 - Introduction to the OEEPE distance learning courses
 - Introduction to the respective topics of the courses and overview of corresponding OEEPE research projects
 - Familiarisation with the conference system "FirstClass"
2. The OEEPE distance learning course on **Automatic Orientation of Aerial Images**, held between 04 and 15 November 2002:
 - Matching techniques for maps and orthoimages
 - Automatic orientation by means of vector map data
 - Automatic orientation by means of orthoimages and DEM data

Prof.Dr. R. Kuittinen
President of the OEEPE

Prof.Dr.-Ing. J. Höhle
OEEPE Distance Learning Course Coordinator
Automatic Orientation of Aerial Images

EduServ3 courses

- D. Digital cameras/sensors (B. Csatho – C. Toth, The Ohio State University, USA)
 - E. Coordinate reference systems and transformations for spatial positions (K. Mooney – A. Martin, Dublin Institute of Technology, Ireland)
 - F. Impacts of improving the positional accuracy of GI databases (Technical University Berlin)
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EduServ4 courses

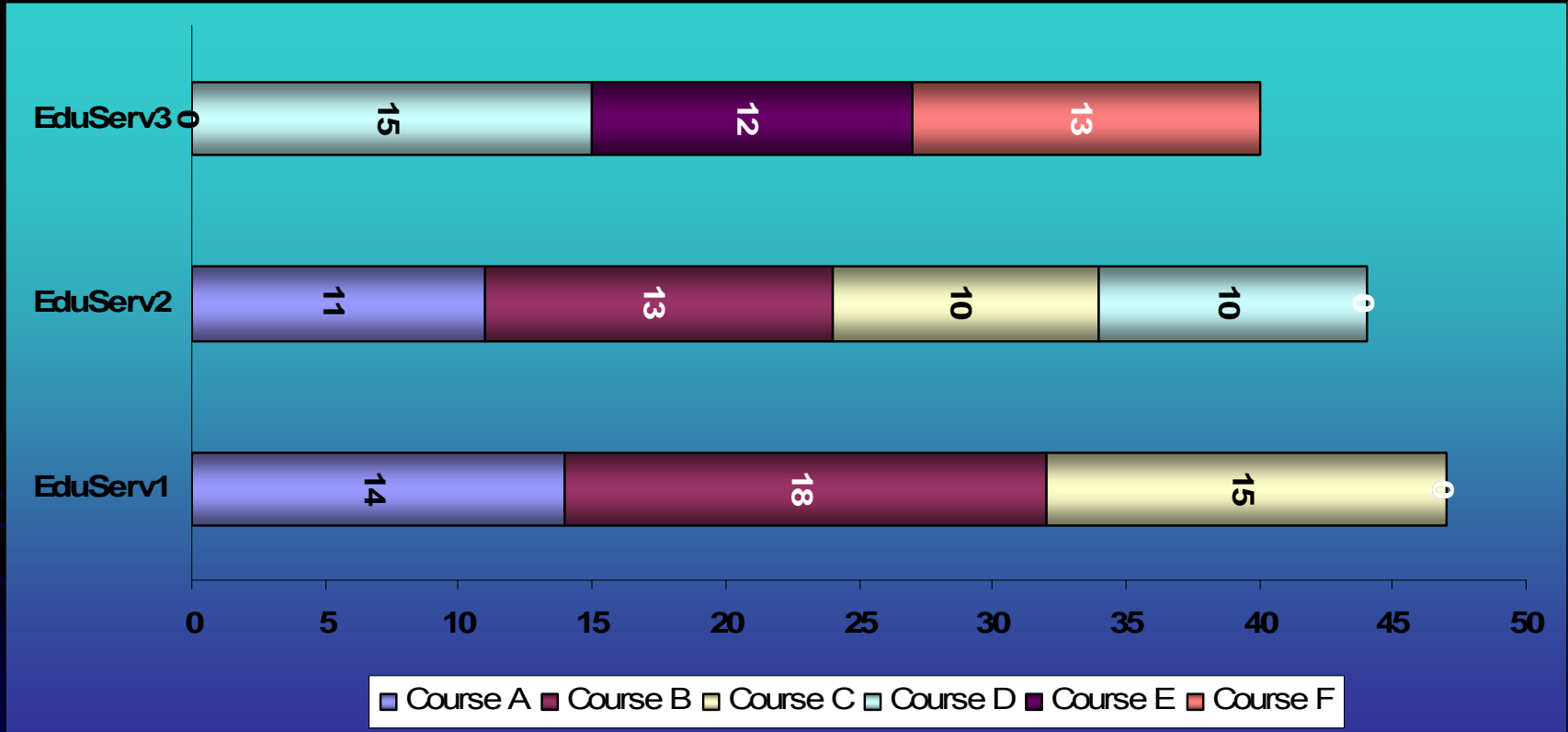
E. Co-ordinate systems and transformations for spatial position (10-21 April 2006)

F. Positional Accuracy Improvement in GI databases (1-12 May 2006)

G. Quality of Geospatial Data and the Related Statistical Concepts (22 May - 2 June 2006)

H. Methods for checking and improving of DTMs (12-23 June 2006)

Participants



Sum of students: $47+44+40=131$

Thanks for your attention!

