



European Spatial Data Research



International Society for Photogrammetry and  
Remote Sensing

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## EuroSDR & ISPRS Workshop 2008 - Final Programme

### Geosensor Networks

Hannover, Germany  
February 20 – 22, 2008

[http:// www.ikg.uni-hannover.de/geosensor](http://www.ikg.uni-hannover.de/geosensor)

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#### Wednesday, Febr. 20:

##### **11:00 – 12.30: Opening (Chair: Monika Sester)**

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Welcome and greetings:

LGN

Leibniz University Hannover

Ernst Jäger, Department Head, Geotopography

Karl-Heinz Rosenwinkel, Vice Dean, Civil Engineering and  
Geodetic Science

EuroSDR

ISPRS

Kevin Mooney, Secretary General EuroSDR, Dublin

Wolfgang Kainz, ISPRS Commission II President, Wien

#### *Key note:*

*Ouri Wolfson, Univ. of Illinois*

*Information Technology and Intelligent Transportation: A  
Marriage Made in Heaven*

#### Lunch

##### **14:00 – 15:30 Session 1: Sensors and Data Capture (Chair: Matt Duckham)**

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Ralf Bill, Univ. Rostock

Hartmut Ritter, ScatterWeb GmbH, Hinrich  
Paulsen, terrestris GmbH, Berlin

Hansjörg Kutterer, Leibniz Univ. Hannover

Precise Positioning in ad hoc Geosensor Networks

SensorGIS-Sensors and network design

Precise sensors networks for monitoring tasks in  
engineering geodesy

#### Coffee break

##### **16:00 – 17:30 Session 2: Algorithms and Data Interpretation I (Chair: Ralf Bill)**

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Jörg Hähner, Leibniz Univ. Hannover

Claus Brenner, Leibniz Univ. Hannover

Sören Kammel, Univ. Karlsruhe

System architecture and self configuration in  
distributed camera networks

Geosensor Networks – The case of navigation & driver  
assistance systems

Environmental mapping for cooperative driving

##### **19:00 Get together**

**Messdach, Leibniz University of Hannover**

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#### Thursday, Febr. 21:

##### **9:00 – 10:45 Session 3: Algorithms and Data Interpretation II (Chair: Stephan Nebiker)**

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**Key note:**

*Matt Duckham, Univ. of Melbourne*

*Ambient spatial intelligence: Decentralized computing in geosensor networks*

Jon Devine, Anthony Stefanidis, George  
Mason Univ., Fairfax  
Gennady Andrienko, FhG IAIS, St. Augustin

Support Vector Machines for spatiotemporal  
analysis of GeoSensor data  
Visual Analytics Tools for Analysis of Movement Data

**Coffee break**

**11:15 – 12:45 Session 4: SWE – Sensor Web Enablement (Chair: Keith Murray)**

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Mike Jackson, Nottingham	Optimising the effectiveness of Geosensor networks: geospatial interoperability and test-bed development
Stephan Nebiker, FHNW, Basel	Combining micro UAV based mobile video imagery and virtual globes - a test case for future sensor web capabilities
Kai Walter, Univ. Rostock	Geosensor Web Enablement in Early Warning Systems for Landslides

**Lunch**

**14:15 – 15:45 Session 5: SDI and NMAs (Chair: Michel Schouppe)**

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Keith Murray, Ordnance Survey, Southampton	Integrating the sensor web and SDIs – greater than the sum of the parts
Jan Jellema, TNO, Utrecht	SWE-connected sensors: datasource for geo-information
Cord-Hinrich Jahn, LGN, Hannover	SAPOS - a part Geosensor network

**Coffee break**

**16:15 – 17:15 Session 6: Geo-Applications I (Chair: Mike Jackson)**

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Antonio Krüger, Univ. Münster	Improving Disaster Management through Geosensor networks
Kathrin Poser, GFZ Potsdam	Humans as Sensors: Integration and assessment of information from the affected population for flood disaster management

**Friday Febr. 22:**

**9:00 – 11:15 Session 7: Geo-Applications II (Chair: Ouri Wolfson)**

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**Key note:**

*Michel Schouppe,  
European Commission, Brussels*

*Geosensor networks for Disaster Management – Ongoing community research*

Joern Lauterjung, GfZ Potsdam	Geosensor networks in the Tsunami early warning system
Anke Friedrich, LMU München	GPS networks for monitoring earth surface processes
Ian Marshall, Uni. Lancaster	Automated Observation of a “remote” UK upland catchment

**Coffee break**

**11:45 – 13:15 Session 8: Security Applications (Chair: Antonio Krüger)**

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Wolfgang von Hansen, Ulrich Thönnessen, FOM, Ettlingen	3D LIDAR sensors for security applications
Günter Saur, IITB, Karlsruhe	Video processing for surveillance and security applications
Thorsten Reitz, FhG IGD, Darmstadt	Integration of Sensors into Geodata Harmonisation Scenarios in the HUMBOLDT Project

**13:15 – 13:30 Closing (Chair: Christian Heipke)**

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