Geospatial Sensor Webs – from data to information in the Sensor Web

INVITATION AND CALL FOR PRESENTATIONS

Sensor Web technology enables the sharing of data collected by Earth Observation networks and facilitates access to information capturing the state of the environment. Observation data delivered by sensors, human observers, models, etc. is used in many domains such as ocean sciences, hydrology, environmental monitoring (e.g. air quality, noise), traffic management, geology, and emergency management.

In addition to sharing observation data, the generation of information products out of raw data is an important added value. Sensor Web technology can complement approaches for interoperable Web-based Geoprocessing with mechanisms for delivering input data and sharing the resulting information products.
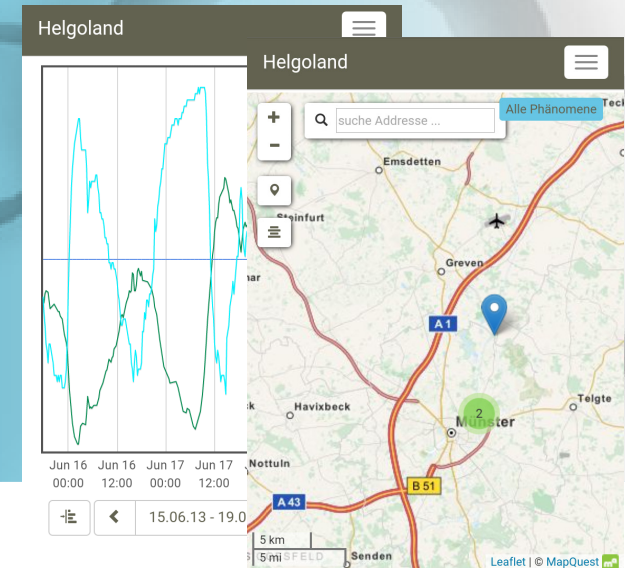
This year's motto "Geospatial Sensor Webs – from data to information in the Sensor Web" emphasizes the importance of Sensor Web technology in conjunction with tools for data analysis, processing, and visualization. The conference will cover the state and future directions of Sensor Web standards and technology, as well as the challenges of processing Sensor Web data.

The program offers two pre-conference tutorials on the afternoon of Monday, August 28th:

Introduction to Sensor Web Technology

The tutorial provides an introduction to relevant Sensor Web concepts, as well as underlying OGC Sensor Web Enablement standards (e.g. OGC Sensor Observation Service, ISO/OGC Observations and Measurements, OGC Sensor Model Language). Participants are also familiarized with the 52°North Sensor Web suite of implementations. The workshop concludes with a presentation of several exemplary applications of Sensor Web technology. (*90 minutes*)

Introduction to Web-based Geoprocessing

The tutorial presents state of the art concepts for Web-based Geoprocessing. This includes the OGC Web Processing Service standards, as well as relevant REST-APIs. An introduction to the 52°North Web-based Geoprocessing tools and best practice examples of applications relying on this technology complete the workshop. (*90 minutes*)

The main conference day is Tuesday, August 29th. It concentrates on presentations (see conference topics) and reports on user experiences. Wednesday, August 30th, is an interactive workshop day focusing on the discussion of user requirements, new technologies, future directions and project ideas.

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We invite presentation contributions for the conference and discussion topic suggestions for the workshop. Please send a title and brief abstract of approximately 50 words to gswconference@52north.org.

Conference Topics

Contributors are invited to submit presentations on the following topics:

- Examples of Sensor Web implementations/ applications
- Web-based Processing of Observations
- INSPIRE & O&M – Best Practices and applications
- Geospatial Web of Things
- Sensor Data Analysis
- Big Sensor Data
- Event processing
- Sensor Data visualization
- Architectures & Standards development
- Considering the quality of Observations & Measurements
- Low cost sensing devices
- Dataflow from sensors to the Web
- Semantic Sensor Web and Linked Data
- GIS and Sensor Web
- Integration of in-situ and remote sensing data especially in the context of COPERNICUS

Workshop topics

Participants are welcome to suggest additional topics for discussion:

- Integration in-situ and remote sensing data in the context of COPERNICUS
- Event processing (pub/sub)
- Managing and processing big observation data

Important deadlines

Registration opens
March 23, 2017

Deadline for presentation proposals
June 30, 2017

Registration ends
August 25, 2017

Conference
August 28–30, 2017

Location

The „FOM Hochschulzentrum in Münster" Martin-Luther-King-Weg 30-30a, 48155 Münster

Accommodations

Please note that the „Skulptur Projekte Münster" takes place in the city during the conference, so book your accommodation early. We have no hotel rooms blocked for the conference, but provide suggestions on our website.

Conference fee

In order to cover part of the conference costs, there is a conference fee of 60,– € (VAT included). This includes WIFI access, coffee and small snacks (except lunch) and the conference dinner on Tuesday evening.

More information available at
http://52north.org/conference

52north exploring horizons

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