

## Detailed program workshop Sensing a Changing World 2008

Wageningen University, Centre for Geo-Information

**Wednesday, 19 November 2008**

Time	Title	Speaker
8:30 – 9:00	Registration & Coffee	
9:00 – 9:15	Opening and welcome by the organizers	Arend Ligtenberg and Lammert Kooistra <i>Wageningen Univ. (NL)</i>
9:15 – 9:50	<b>Keynote presentation:</b> Sensorwebs: A Geostrategic Technology for Integrated Earth Sensing	Philippe Teillet <i>Univ. Lethbridge (CA)</i>
<b>Session Sensor network design and technology</b>		
9:50 – 10:10	SensorSA data acquisition system	Denis Havlik <i>Austrian Res. Centre (AT)</i>
10:10 – 10:30	Algorithms for energy efficient data extraction from wireless sensor networks for environmental monitoring applications	Supriyo Chatterjea <i>Univ. of Twente (NL)</i>
10:30 – 10:50	Coffee break	Offered
10:50 – 11:10	Towards remote sensing of vegetation processes	Alexandr Ač <i>ISBE (CZ)</i>
11:10 – 11:30	Field servers as real-time monitoring tools for ubiquitous sensor networks	Aadit Shrestha <i>Asian Inst. Of Techn. (THL)</i>
11:30 – 11:50	The exploration of sensor web technology for highly dynamic geo-processes observing hydrological events	Arjan Breugem <i>Wageningen Univ. (NL)</i>
11:50 – 12:10	A practical implementation of a sensor network for geotechnical monitoring	Pepijn van Vliet <i>Alert Solutions (NL)</i>
12:10 – 13:15	Lunch Break	Offered
<b>Session Data integration and information extraction</b>		
13:15 – 13:50	<b>Keynote presentation:</b> Making it explicit: The movement representation in WSN	Monica Wachowicz <i>Techn. Univ. of Madrid (ES)</i>
13:50 – 14:10	Inference grids for environmental mapping and mission planning of autonomous mobile environmental robots	Alberto Elfes <i>NASA JPL (USA)</i>
14:10 – 14:30	Location sensing healthy living adviser: technology development and simulation	Yuzhong Lin <i>Eindhoven Univ. of Techn. (NL)</i>
14:30 – 14:50	Networked architecture for robotic environmental ocean science sensors	Greg Podnar <i>Carnegie Mellon Univ. (USA)</i>
14:50 – 15:10	Coffee break	Offered
15:10 – 15:30	Geo Mindstorms	Steven Fruijtier <i>Geodan (NL)</i>
15:30 – 15:50	Developing a model to determine the impacts of climate change on the geographical distribution of tourists	Anto Aasa <i>Univ. of Tartu (EST)</i>
15:50 – 16:10	Enhancing the landscape experience by Location Based Services	Ron van Lammeren <i>Wageningen Univ. (NL)</i>
16:10 – 16:30	The use of GPS for the analyses of similarities in movement behavior of visitor flows in nature areas	Arend Ligtenberg <i>Wageningen Univ. (NL)</i>
16:30 – 16:50	Sensing pedestrian movement. Sensing is measuring?!	Stefan van der Spek <i>Delft Univ. of Techn. (NL)</i>
16:50 – 18:30	Ice breaker event (including demonstrations)	Offered
19:30	Workshop Dinner	Offered

**Thursday, 20 November 2008**

Time	Title	Speaker
8:30 – 9:00	Registration & Coffee	
9:00 – 9:05	Opening	Arend Ligtenberg and Lammert Kooistra <i>Wageningen Univ. (NL)</i>
9:05 – 9:40	<b>Keynote presentation:</b> Geosensor Networks: New Challenges in Environmental Monitoring using Wireless Sensor Networks	Sylvia Nittel <i>University of Maine (USA)</i>
<b>Session Real-time processing and visualization</b>		
9:40 – 10:00	OSIRIS: combining pollution measurements with GPS position data for air quality monitoring in urban environments making use of smart systems and SWE technologies	Rubén Pérez <i>GMV Aerosp. &amp; Defence (ES)</i>
10:00 – 10:20	An integrated sensor web design, acquisition, and evaluation framework for intelligent, adaptive environmental monitoring	Phil Graniero <i>Univ. of Windsor (CA)</i>
10:20 – 10:40	Coffee break	Offered
10:40 – 11:00	Sharing the sensor data with SensorSA and cascading SOS	Denis Havlik <i>Austrian Res. Centre (AT)</i>
11:00 – 11:20	The development of a dynamic web mapping service for vegetation productivity using remote sensing and in situ sensors in a sensorweb based approach	Lammert Kooistra <i>Wageningen Univ. (NL)</i>
11:20 – 11:40	Combining sensor and forecast information to aid decision making	Jaap Schellekens <i>Deltares (NL)</i>
11:40 – 12:00	Distributed decision making in a sensor enabled environment	Mohammad Sazegarnejad <i>Clark Atlanta Univ. (USA)</i>
12:00 – 12:10	Group photo	
12:10 – 13:20	Lunch Break	Offered
<b>Session Geo-sensor networks: implementation and experiences</b>		
13:20 – 13:40	Agriculture benefit from the LOFAR infrastructure	Kees Lokhorst <i>ASG-WUR (NL)</i>
13:40 – 14:00	Sensor networks: basis for the Dutch geo-infrastructure	Jan Jellema <i>TNO (NL)</i>
14:00 – 14:20	MOBESENS: monitoring water quality at large and in the long term	Philippe Dallemagne <i>CSEM (CH)</i>
14:20 – 14:40	Catchment scale in-situ wireless sensor networks for agriculture and environmental monitoring	Sirpa Thessler <i>Agrifood Res. Finland (FI)</i>
14:40 – 15:00	Coffee break	Offered
<b>Session Discovery and accessibility of sensor data: future challenges</b>		
15:00 – 15:20	Geo sensor networks: the future for spatial data infrastructures?	Arnold Bregt <i>Wageningen Univ. (NL)</i>
15:20 – 15:40	Towards open navigation, download and analysis services for large multi-dimensional sensor repositories	Peter Baumann <i>Jacobs Univ. Bremen (DE)</i>
15:40 – 16:00	Metadata behind the interoperability of wireless sensor networks	Daniela Ballari <i>Techn. Univ. of Madrid (ES)</i>
16:00 – 16:20	Discovery mechanisms for the sensor web	Simon Jirka <i>Westfal. Wilhelms-Univ. (DE)</i>
16:20 – 17:00	Discussion and concluding remarks	
17:00 – 18:30	Farewell drinks	Offered

**Friday, 21 November 2008**

Time	Title	Speaker
8:30 – 17:00	Excursion to LOFAR facility in Drente ( <a href="http://www.lofar.org">www.lofar.org</a> )	

## Overall program including locations

### *Wednesday, 19 November 2008*

<b>Time</b>	<b>Title</b>	<b>Location</b>
8:30 – 9:00	Registration & Coffee	GAIA Foyer
9:00 – 9:15	Opening and welcome by the organizers	GAIA 1/2
9:15 – 10:30	Oral session	GAIA 1/2
10:30 – 10:50	Coffee break	GAIA Foyer
10:50 – 12:10	Oral session	GAIA 1/2
12:10 – 13:15	Lunch	FORUM
13:15 – 14:50	Oral session	GAIA 1/2
14:50 – 15:10	Coffee break	GAIA Foyer
15:10 – 16:50	Oral session	GAIA 1/2
16:50 – 18:30	Ice breaker event (including demonstrations)	GAIA Foyer and GAIA 1/2
19:30	Workshop Dinner	Restaurant

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14:40 – 15:00	Coffee break	GAIA Foyer
15:00 – 16:20	Oral session	GAIA 1/2
16:20 – 17:00	Discussion and concluding remarks	GAIA 1/2
17:00 – 18:30	Farewell drinks	GAIA Foyer

### *Friday, 21 November 2008*

<b>Time</b>	<b>Title</b>	<b>Location</b>
8:30 – 17:00	Excursion to LOFAR facility in Drente ( <a href="http://www.lofar.org">www.lofar.org</a> )	By bus to Drente