



Geomatics Newsletter



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More introductions of our new MSc Geomatics students

Hello,

I am Sonia Boufidou and I come from Thessaloniki, Greece. I have graduated from the department of Geology in Thessaloniki and during my studies I became familiar with the fields of GIS and Remote Sensing. After this first experience, I realized that I would really like to go further into these fields and here I am!



Till now, I find the Geomatics program to be of great interest and life in Delft to perfectly suit my lifestyle! I wish that in the next months things will get even better and I look forward to the next year, when we will get some more hands-on experience.

Endang Widiastuti received her diploma earlier, because she go back to her home country before the ceremony. We would like to congratulate all of them and wish them all the best in their careers.

Geomatics Synthesis Project 2009

In two months time, the members of the Geomatics Synthesis project (Ken Arroyo, Prajnaparamita Bhattacharya, Filip Biljecki, Dinesh Kalpoe, Álvaro Muñoz, Piers-Titus van der Torren, Stijn Verlaar and Hang Yu) have performed an analysis based on Interferometric Synthetic Aperture Radar (InSAR) data, to assess the feasibility of using this technique to detect deformations in relation to the railway tunnel project of Delft (Sporzone Delft).

The use of radar remote sensing data in deformation detection is becoming more popular. With the technological advances in this field, it is now possible to get frequent and regular data with high resolution in all weather conditions. Thus, these measurements have the potential for excellent deformation monitoring. The required data is already being acquired by the German Aerospace Center (ger. Deutschen Zentrums für Luft- und Raumfahrt) (DLR) and European Space Agency (ESA) commissioned by Delft Institute of Earth Observation and Space Systems (DEOS), ensuring its independence from any of the parties involved.

The data of the observed area is acquired by the TerraSAR-X satellite (among others, such as Envisat) twice every 11 days, which should allow us to detect the deformation occurred in this time frame. This however, might not be enough, since some potential failure mechanisms may be faster than the satellite repeat cycle, limiting the response capabilities of solely radar-based monitoring. Additionally, the relationship between the works performed and the ground level detectable deformation is not direct, with the measured objects being extremely difficult to pinpoint with certainty, limiting the applicability of PS-InSAR and complicating creating models to predict potential dangers.

From the user requirement point of view, the GSP has focussed on the interest of citizens who reside in the vicinity of the project, since they are most concerned about the consequences of tunnel building on their property. For PS-InSAR to succeed in this particular

Hello,

My name is Bart Schoorl.

I am a student from the Netherlands following the Geomatics master course.

Next to this course I have a job at the "Ministry of Transport, Public Works and Water Management". Due to my job I am a part-time participant of Geomatics.

Before I started at the TU Delft I have finished a Bachelor course Hydrography at the NHL in the Netherlands. Before that I have worked four years Onshore and Offshore for the oil industry as a Well tester.



I have chosen the Geomatics course because of the diversity in work fields related to this course.

The course is broad and creates many opportunities for the future.

I hope to build and maintain a resourceful network with my fellow classmates for now and in the future.

Hi,

I'm Yijing Wang, from Shanghai China. I studied surveying for two years and GIS for another two years at the time of bachelor.



I start a new life here all alone, far away from all that I'm familiar with; communication is harder, language using is sometimes awkward. But I still consider it an excellent choice to study here. Geomatics at TU Delft is what I expected; it gives me a wide vision of this field. Busy as the current study is, I find it interesting and challenging. People here are kind and seem to enjoy their life very much.

application, it should be able to reliably measure whether their houses are tilting or shifting and if so, its potential consequences.



This project has been closed with a very successful, public, final presentation on October 29 last. More than 100 persons interested attended this meeting. From the flood of response from the citizens, the municipality of Delft, the Development Company 'Spoorzone' it may be expected that this PS-InSAR method will be actually applied during the construction of the railroad tunnel in Delft.

This year the OTB Research Institute acted as host for the Synthesis project.

On behalf of the Geomatics' community we like to congratulate the project team with their achievements.



Interested in more information regarding PS-InSar in general and the use of it for e.g. monitoring dykes you can contact prof. Ramon Hanssen (r.f.hanssen@tudelft.nl). For applications within the railway tunnel project of Delft (Spoorzone Delft) please contact ir. Edward Verbree (lecturer GIS technology) at e.verbree@tudelft.nl.

Guest lecture by Johannes Kebeck (see agenda)

On November 24, 2009, 9.45-12.30 hours Johannes Kebeck (from MicroSoft Bing Maps) will give a guest lecture titled "Introduction into the Bing Maps Platform and its Extensibility". The event takes place in the Aula, Lecture Room A.

Where I am is a beautiful city, a beautiful country with nice people. I'm really looking forward to become part of this place soon.

Hey,

I am Sifeng Xu, from China, but I prefer friends to call me Daniel. I got my bachelor in GIS, Nanjing Normal University. Before I received the admission letter from TU Delft, I had applied for a couple of graduate schools all over the world, including Australia, North America, UK, Hong Kong and other schools inside Holland as well. But finally I decided to come to TU Delft, for I have heard that this school is famous for engineering courses. Though I have learnt tons of stuff about GIS theory, I really want to know how to use them, not just stay in the theory. After several weeks of studying, I found that TU Delft meet my demands so well. Here I have so many opportunities to get deeper into practical work.



If you are also more interested in the applied and engineering stuff than in the theory and the paper, why not come and join us?"

Not only studying, but also time for relaxation

Bas Altena took the initiative and organized the first get-together on October 19 last.



Introduction into the
Bing Maps Platform and
its Extensibility

November 24th 2009, 9.45-12.30 - Aula collegezaai A

A guest lecture by Johannes Kebeck of
Microsoft Bing Maps
For the minor
"3D Virtual Earth"

The lecture is open to everyone

TU Delft
University of Technology
Challenge the future

November 30 – December 4, 2009: Master week event at TU Delft

On Monday November 30 at 15.00 p.m. the master week starts with a general programme and information fair in the Aula. At the fair, you can find out about all of the Master's programmes and obtain information on general issues such as accommodation and studying abroad. Academic counsellors, teaching staff and students will be on hand to answer your questions. Following the opening programme in the Auditorium, presentations on the Master's programmes will be held at the relevant faculties from 17.30 onwards. From Tuesday to Friday, various events will be organised within the faculties to enable you to obtain more in-depth information about the Master's programmes in which you are interested. Of course also our MSc Geomatics and our MSc Geographical Information Management and Applications (GIMA) are happy to welcome you during this event. You can register for these events in advance and during the Master's week. More information can be found at:

<http://www.tudelft.nl/live/pagina.jsp?id=232c63dd-1cd4-4ce9-b480-34b5270a71a0&lang=en>

Brenda Hooiveld in the picture

Brenda studied sociology at the university of Groningen. In 2006 she graduated and wrote her thesis about 'Deblauwestad' www.deblauwestad.nl. Next, she obtained a teaching degree in Social Studies (maatschappijleer). From February 2008 she is working at TU Delft as management trainee. Last year she worked at the faculty Technology, Policy and Management at a project to gain new accreditation.

Let's play ice hockey!



ION GNSS 2009 Student Competition Winner

At the ION GNSS 2009 conference, the 22nd International Meeting of the US Institute of Navigation (ION) Satellite Division, from September 22-25 in Savannah, Georgia, Junlin Yan received a Student Paper Award. He presented his paper 'Low-Complexity Ultra-Wideband Indoor Positioning' at the conference, in the session on Wireless Sensor Networks, and he received a full conference and travel grant.

Junlin - working in the MGP-group - is involved in the HERE-project, a joint project of the TU Delft faculties of Aerospace and Electrical Engineering, and financially supported by STW. The aim of this project is to enable high accuracy indoor positioning using Ultra-WideBand (UWB) radio-signals.

Below, Junlin is portrayed with his plaquette, in front of the Savannah Convention Center. Congratulations!



Congratulations

On Friday October 9 last Jasper Hellemons, Ramses Molijn (with distinction) and Tom Wortel received their MSc Geomatics diploma during the diploma ceremony.



This year Brenda is going to work on the communication and PR of the MSc Geomatics. The goal is to make Geomatics better known and to improve the influx of students. When you have marketing ideas or a news items, let her know via b.hooiveld@tudelft.nl!

In her free time Brenda plays in The Royal Delft Wind Orchestra www.harmoniekapel.nl and she likes to read, squash and do all kinds of outdoor activities.

Short news



Prof. Ramon Hanssen (Faculty of Aerospace Engineering) succeeds prof. Nick van de Giesen (Faculty of Civil Engineering & Geosciences) as chair of the Examination Committee Geomatics.

Agenda

- Oracle Spatial Meeting 'Beyond Spatial Boundaries' November 20, 2009
Oracle Nederland BV, De Meern
<http://www.ogh.nl/page.aspx?event=96>
- Graduation Colloquium
November 20, 2009 in the afternoon
Faculty of Aerospace Engineering, Room 1
- Guest lecture "Introduction into the Bing Maps Platform and its Extensibility" by Johannes Kebeck (from MicroSoft Bing Maps)
November 24, 2009, 9.45-12.30 hours
Aula, Lecture Room A

- Seminar 'Management of massive point clouds: wet and dry'
November 26, 2009, 9.30-17.00 hours
Oracle Nederland BV, De Meern
<http://www.ncg.knaw.nl/Studiedagen/09PointClouds/programma.html>
- Master week TU Delft
November 30 – December 4, 2009
- GIN Congres & Vakbeurs Geo-info Xchange
December 2-3, 2009, Jaarbeurs Utrecht
<http://www.geoinfoexchange.nl/nl-NL/Bezoeker.aspx>

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