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In this newsletter of October we catch up on all the past events and some interesting research!

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SNELLIUS NEWSLETTER
October 2016

Dear <<First Name>>

Exams have started and everyone is studying hard. In this newsletter, our student of the month is Shelley van der Graaf who is finding out what interpolation method can be used best for a certain data set. Furthermore, Jori Dreef has written down her experiences of starting the master in a new town. The activity calendar is updated as well with a new activity upcoming soon and the evaluation lunch for the first quarter courses. Please visit our new website for further information or contact us!

Student of the month

The student of the month is Shelley van der Graaf, she is finding out which interpolation methods should be used to process data like the seismic data from Fugro she is working with.

Hello everyone! My name is Shelley van der Graaf, I am a GRS student and I am working on my final thesis supervised by Roderik Lindenbergh. My thesis project is about interpolation, kriging in particular. Kriging is an interpolation technique that can obtain optimal results in terms of mean squared prediction errors. Unfortunately, the determination of

The natural neighbours of an estimation point are the points of which their Voronoi cell is altered by the introduction of that new point. In natural neighbour kriging the natural neighbours of each estimation points are used as interpolation neighbourhood. Not only does this result in a computational advantage, the spread of the used points is affected by the geometry of the input points and is therefore often more representative than the selection of points using other criteria.
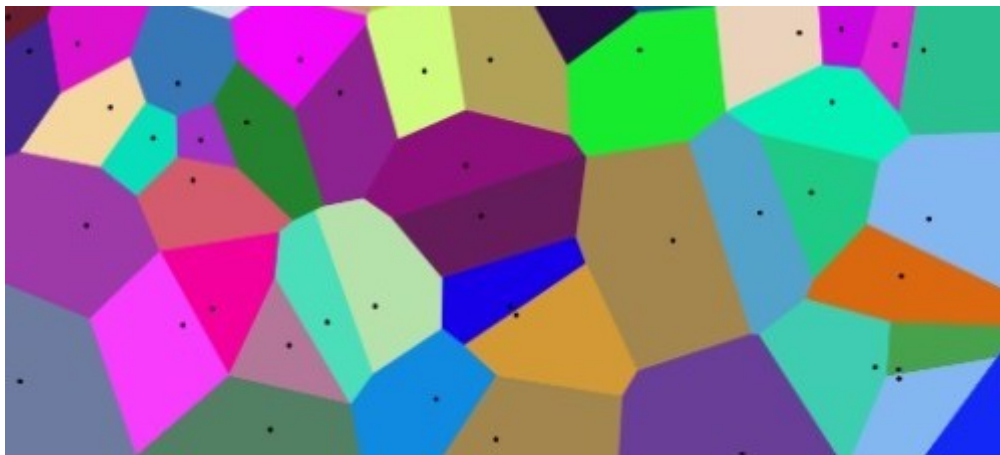
computations. In order to improve the computational speed, a selection of local points is often used, these points are called an interpolation neighbourhood.

I have been working on the implementation and testing of a new variation of kriging based on the concept of Voronoi diagrams, called naturalneighbour kriging. Voronoi diagrams are distance-based tessellations that split up an area into cells that include all locations that are closest to one of the input points.

data from Fugro. My goal is to provide Fugro with a clear schematic that can be used to determine what interpolation method should be used for what type of data and, moreover, with some new ways to visualise the quality of the final interpolation results. If you have any questions or if you are interested in some of my results, please feel free to contact me on my student mail, s.c.vandergraaf@student.tudelft.nl !

By Shelley van der Graaf

Coloured Voronoi Tesselation

Experience of the master program

In September we had many new students starting with our master program. Jori Dreef tells us about her experiences starting at a new university.

Making so many graded assignments for one course was new to me. These assignments have helped me a lot to learn Matlab, which I did not know very well before I came to Delft. Although my bachelor was quite technical, I was a little intimidated during the first lectures by the

bachelor Soil, Water, Atmosphere in Wageningen. Although Delft and Wageningen are both small cities, there are quite some differences between the two universities and the cities. In Wageningen, my days consisted mainly of following lectures, sometimes some practicals in the lab or in the field. Here in Delft, I just have a few hours of lectures a day. The rest of the day, I spend working on one of the many assignments that have to be handed in this period.

them are not as difficult as they seem.

Overall, I think that switching from Wageningen to Delft can be done very easily and without any major problems.

By Jori Dreef

Upcoming activities:

- Wed 16 November - Snellius Activity
- Mon 21 November - Evaluation lunch Q1
- Thu 1 December - Snellius Drinks
- Fri 9 December - Excursion Airbus

Want to stay up2date with all our activities? Subscribe to our calendar via Google Calendar or the direct ICS link

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