

First edition ICT with Industry 2013

Introduction

Following the success of Mathematics with Industry and Physics with Industry the Netherlands Organization for Scientific Research (NWO) and Technology Foundation STW organized for the first time the workshop ICT with Industry from 11 to 15 November 2013 at the Lorentz Center in Leiden.

The aim of this workshop was to provide a platform for networking between computer scientists and industrial partners. About fifty computer scientists from a wide range of universities in the Netherlands worked together extensively on challenging problems proposed by the industry during a week. The workshop was expected to lead to a number of new papers and/or research initiatives and to establish new research collaborations between computer science and industry.

The industrial partners presented their urgent industrial problems and objectives on the first day. The following days the computer scientists started to brainstorming, programming and solving the problems in different groups closely guided by the industrial representative and supported by senior researchers. On the last day, all groups presented their findings and solutions with concrete next steps.

Outcome

New understanding of power smartphones: a safe way for cyclists to pass on information about road conditions

From 11-15 November 2013 22 computer scientists from different disciplines worked on 3 study cases submitted by Netherlands Institute for Sound and Vision (NISV), Seecr and Rijkswaterstaat. The study case of NISV resulted in a system design for scalable content querying of the NISV archive. Another group of computer scientists worked on the study case submitted by Seecr, which delivered a completely generic semantic clustering approach that can be further developed for real time queries. And finally, the study case of Rijkswaterstaat resulted into initial approach using off-the-shelf technology in combination with the datasets delivered by cyclists.

Below is a quote from the representative of Rijkswaterstaat, Marcel de Rink, who is account manager within ESRI Netherlands:

"It is promising that there is such a great result after one week. In the test rides we can already see that the sensors measure the differences in acceleration. This result is very promising and I expect this will make a change. There is certainly a market for this type of tools. Operators and companies with an appropriate business model can pick this up and capitalize the knowledge. ESRI should be able to link the measurements to the road network. A great and promising result so for this group."

NWO and STW will be publishing the proceedings of the workshop online soon.

In general, the participants were enthusiastically about the format of workshop, which gave them the opportunity to expand their knowledge and network by collaborating intensively on a real practical study case. The participating industrial and public partners attended the workshop by presenting the study cases. In the workshop the researchers were more than happy to assist the industrial partners in formulating the research questions. The organizers received positive feedback about the hospitality and facilities offered by the Lorentz Center.

To ensure the success and the embedding of the Workshop ICT with Industry in the Dutch research community it is essential to organize a second edition as part of the continuity process. The second edition of the workshop ICT with Industry will be organized 13 – 17 October 2014.

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For more information and papers please visit <http://www.nwo.nl/en/about-nwo/organisation/nwo-divisions/ew/events/2013+ICT+with+Industry+workshop>