Conclusions by Dieter Fritsch, EuroSDR VP Research

EuroSDR Workshop "High Density Image Matching for DSM Computation"
Vienna, February 16th – 17th, 2012

Sense image matching is a technology with huge potential for National Mapping and Cadastral Agencies (NMCAs) across Europe. Thanks to Marc Pierot-Designilly from IGN, Paris who proposed a benchmark on "Dense Image Matching for DSM Computation" to the EuroSDR delegates and actually brought us together for this workshop here in Vienna.

Marc and his team prepared 4 datasets and asked for active participation in Autumn 2009.

14 institutions showed their interest, but unfortunately their activities were finally not as expected.

So far the following five teams have processed the datasets

- IGN Paris
- DLR Oberpfaffenhofen
- ifp Stuttgart
- IPF Vienna
- Military Services / IGN Belgium.

The results were quite promising. In the first breakout session, 6 questions were answered each by 6 teams, which definitively will contribute to improve the current set-up of the benchmark. You have addressed problems like suitable ground control, computation time, suitability of the current datasets and much more. We have promised to put all your answers underneath the questions and publish it on the workshop web pages. Your answers will also be included in the official EuroSDR Workshop notes publication and used at the Dublin meeting to improve the objective of the benchmark.

On the morning of Friday February 17th, 2012 we extended the focus and have got presentations by more vendors, DLR photogrammetry, the Association of German NMCAs and an engineering service provider in Austria.

We learnt that there are about 10 software solutions for dense image matching available, offered by vendors and academia, which should really be benchmarked under the umbrella of EuroSDR.

The second breakout session discussed again the setup of the current benchmark. I hope that everybody could make a substantial contribution to this breakout and have enjoyed the open atmosphere. We will discuss your input and visions in a small group – consisting of Marc, Norbert, Michael and myself – to propose a new direction of the benchmark.

For me it is clear, that this benchmark is very important and we will recommend the EuroSDR delegates in the Dublin meeting to continue it and to allow for a second workshop at the end of this year, to discuss new results.

For your convenience we will put all presentations of this workshop as pdf onto the workshop web pages and EuroSDR web pages as well. You will get an email with the appropriate links.

Finally let me thank Norbert and Michael for their support to organize this workshop here at BEV Vienna. Michael, please give our thanks to President Hochwartner for hosting us during these two interesting days. Let me also thank all speakers for their excellent presentations. Finally let me thank all of you for your participation and your active contributions. I have enjoyed this workshop very much and I hope you did as well.

Let me conclude the workshop wishing you all the best and a safe trip back home. See you soon, most probably at the next workshop. Enjoy your weekend.