

Breakout Session 2 (4 groups)

1. With all the information you have got during this workshop how would you redesign from scratch the EuroSDR Benchmark on Dense Image Matching?

Industry + NMA:

- (set) large scale
- Speed improvement
- Costs for processing
- Commercial software vs. open source
- Quality of results
- Time line

Academic:

- (standard) quantitative DSM comparison
- Good ground truth
- Types:
 - 3D City models
 - – forest
 - - mountains
- New software (in house)
- Small set
- 1. Quality, 2. Speed

.....

Aim:

- To define what is in and what is out of scope
- Provide guidelines, including reporting templates

How “Project Management”:

- Exact requirements
- Define representative datasets

What are we going to do? And not to do?

- Action plan
 - - schedule
 - - resource
- Who?
 - responsibilities
- Communication
 - progress / status tech tracing
 - active web page
 - Workshop regular
- Testing matrix
 - clear test areas required (area wide, city models, ...)
 - define testing parameters

- define outputs

.....

- Specification of result outcome
 - - criteria catalogue
- Splitting in different steps
 - stereo pairs
 - multi-pairs DSM
 - Different areas (few)
- Variety of flight parameters on one area
- Aerial / satellite sensors
- Communication / time line

.....

- different landscapes
- tabulated information
- standard deviations for analysis
- website allowing all users to access all data and images
- companies to be named and “famed”
- further exploration of the use of satellite imagery
- structure the sites:
 - landscape / resolution / image configuration / GSD ...
 - (user flexibility with overlays)
- Data criteria catalogue
 - ground truth should be user based
- how long should a benchmark run?
 - “rolling” and updated (on-line by defined time)
- different criteria for different landscapes
- bottom line is ground control points
- self evaluation should be transparent and easily available
- parameters should be clearly defined and admired to, or if not remarked on any “tweaking”
- Is completeness a stable criteria?
 - what does the floor think?
- How is it evaluated?
 - is a point cloud a good criteria?
- Potential assessment of software
 - is it affordable and practical
- Begin the benchmark today
 - keep it simple and develop it
 - set up a table of parameters to begin with

2. Are there more wishes for Workshops, Projects and Benchmarks EuroSDR should organize in near future?

- Include close range
- Filtering DSM ↔ DTM
- Change detection (geometry)

.....

- DTM filtering of point cloud
- Visualisation
 - Future
 - protocols
- Derived products
 - Standardised
 - useable
- Derived building models

.....

- Follow – up (value added products)
- Give recommendations
- Projects must be interesting for NMCAs & academia
- Getting industry in EuroSDR by projects

.....

- Accessibility of information
- On-line interaction (chat room)
- Make all data accessible on-line

Answer to questions for Dubling meeting in May:

- Ensure all 3 groups (AC, IND, NMCA) stay active in these workshops
- *Bigger buns at the coffee breaks*