



CAD Demo Workshop and Business Meeting

Saturday, 27 June 2009, 09:00-13:00
CARS, Berlin, DE

REPORT AND MINUTES

TOP 1: Achievements of the working group so far

- At the welcome to the demo workshop, the WG's achievements have briefly been summarized by the WG chairs. In particular, the efforts towards raising awareness among CAD researchers and developers for the need of good validation and evaluation were mentioned, e.g. by setting up publically available reference image databases.
- On behalf of Larry Clarke from NIH, a related current funding opportunity announcement "designed to promote research on quantitative imaging of tumor response to cancer therapies in clinical trial settings, with the overall goal of facilitating clinical decision making" was briefly introduced. Details can be found on: <http://grants.nih.gov/grants/guide/pa-files/PAR-08-225.html>

TOP 2: Report on the CAD Demo Workshop

- Around 50 highly interested participants visited the workshop (scheduled until 12:00, discussions went on until 13:00), with its 11 demonstrators which covered a wide range of applications for various diagnostic problems and imaging modalities. Part of these applications were research prototypes, (pre-)products or modules for commercial products.
- Concept of the workshop was:
 - to be open for a broad range of CAD application domains, from radiology and nuclear medicine to pathology and biology;
 - to provide an open platform for intense, individual communication between makers and users of CAD systems, and among developers;
 - to support professional networking in the CAD domain.
- Feedback from both the presenters and the visitors was very positive. Especially the intense individual discussions of the live demos and the new contacts which could be established were appreciated by the participants. Considering the fact that this was the first attempt to have such kind of workshop at CARS, the feedback was encouraging.
- Several ideas for improvement have been communicated throughout the workshop, in order to increase attractiveness, e.g.:
 - to schedule the next workshop in the late afternoon after the CAD track of the conference;
 - to involve more academic and industrial presenters;
 - to ask presenters to hand in regular CARS papers about their CAD solutions and demonstrators;
 - to invite users, i.e. medical doctors, to visit the demonstrations and meet researchers and companies;
 - to give a nice name to the workshop, e.g. "CADdemo@CARS" or "CARS EuroCAD", in case it shall be regularly organized at CARS;



- to include a challenge on one specific problem and invite participants to compete;
- to include continuing 5-minutes presentations in a loop of all demonstrators in order to attract people.

These ideas will be discussed within the working group during the next months. Some of the above listed ideas require a separate budget, which could be acquired via sponsoring from companies.

TOP 3: Brainstorming on possible future directions of the WG

- The issue of reference image datasets and support of good practices for validation and evaluation of image processing methods and systems shall further be worked on within the WG.
- After the good initial experience, further CAD demonstration workshops should be organized at CARS, taking the feedback of the visitors into account. Close collaboration with the CARS CAD conference track is considered essential.
- The use of our new online collaboration platform at www.3helix.org, which was very helpful during the preparation of the demo workshop, shall be intensified. Invitations to join the working group on this platform shall be sent to workshop participants who showed interest in collaboration. The static website www.efmi-wg-mip.net will be maintained for finalized results.

TOP 4: Next concrete activities

- The feasibility of a workshop at MIE 2009 end of August in Sarajevo shall be explored in the short term.
- For CARS 2010 in Geneva the working group will propose the next CAD demo workshop.

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