

For MIE 2002, Budapest, Aug 25-29, 2002

Proposal for a Workshop

Reference Image Datasets for Medical Image Processing Research and Development

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1 Topic summary

Medical Image Processing and its applications in Computer Assisted Diagnoses (CAD) and therapy (e.g. Computer Assisted Surgery – CAS) are of increasing importance in modern medicine. However, up to now, results of R&D work are usually not or hardly comparable due to the fact that each R&D group uses its own datasets for to develop and evaluate their methods. Furthermore, the datasets themselves are often insufficient or too small for clinically sound evaluation studies. There is an urgent need to establish, step by step, a reference image database providing numerous high-quality datasets for medical image processing R&D groups from different domains. In September 2001, with the EFMI WG an initiative has been started to begin this work.

2 Goal of the workshop

During the workshop, the existing concept and roadmap for to create such a database, as well as first available datasets shall be presented and discussed. In the end of the workshop, a list of recommendations for a revision of both concept and roadmap shall be agreed on. Furthermore, interests can join the efforts of EFMI WG MIP.

3 Agenda

- (1) Presentation of concept, roadmap and first datasets
- (2) Discussion of the presented material
- (3) Collection (brainstorming) and sorting of ideas for improvement
- (4) Selection and final agreement on a list of recommendations

4 Professional interests of the intended audience

The intended audience are colleagues working in the field of medical image processing, either on methodological research or on development of clinical applications like CAD or CAS. Possible motivations for to join the workshop can be:

- to get information about existing material and how to get it for the own work
- identification of possible own contributions to the database
- for to get up-to-date information about the subject
- for to meet experts in this field

5 Expected outcome

A list of recommendations on further development of reference database.
New contacts between the WG and potential participants in the development.