

# Report of MIE STC 2002 Cyprus, Greece

## EFMI Working Group on Medical Image Processing

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### 1. Mission Statement

The working group will, step by step, establish a reference image database for medical image processing R&D groups within the EFMI member countries. The images shall be used in order to make the capabilities of different methods comparable.

In order to foster co-operation between R&D groups, and also in order to avoid redundant development work, the working group will establish a Web-based information system about European image processing groups and their current activities. The working group will provide the technical infrastructure. The R&D groups will have to enter and maintain their own data record by themselves.

The working group will also create and maintain a Working Group Website for to provide all information about the work and upcoming events relevant for interested colleagues and the public.

The working group will meet at least during the MIE congresses. It would invite representatives of other EFMI working groups in order to explore the following topics:

- Integration of Computer Assisted Diagnosis in clinical workflow (with WG-4 and WG-9)
- Representation of Medical Image Processing Results in the EPR (Blobel, Lloyd)
- Provision of Medical Image Processing services in telemedicine applications
- Image management (with newly proposed working group on Clinical Templates)
- The contribution of Medical Image Processing to Web-based education (with WG-6)

The working group will co-operate with IEEE, with standardization bodies, especially DICOM, as well as with the IMIA Working Group 07 Biomedical Pattern Recognition. Furthermore, co-operation with medical associations, especially from radiology and computer assisted surgery, will be part of the work.

The first official meeting of the working group will be during MIE 2002 conference.

It is planned to have at least one active member from minimum half of the EFMI member countries within the working group for achieving real international co-operation.

### 2. Current state of the work

Up to now (Feb 2002), members from the following EFMI countries have joined the WG:

- Austria (1)
- Finland (1)
- Germany (3)
- The Netherlands (2)

A preliminary Concept and a Roadmap for the Reference Image Database for Medical Image Processing R&D Groups (RID-MIP) have been worked out. They are under discussion and will be extended, step by step, toward their final version by contributions from the WG members interested in participating the RID-MIP initiative. It has been suggested to apply for early and/or later funding.

Furthermore, some preliminary datasets for the Reference Image Database are already in preparation.

### **3. Next activities**

The acquisition of members will proceed, and it is hoped to reach the quota (members from at least 50% of the EFMI countries, i.e. from 13 different countries) until summer.

The working group chair will give a status report to the WG members in the middle of March.

In March or April a meeting is planned between the WG chair and CEN TC251 EHRcom (definition of European EPR standard) task force leader Dipak KARLA in London.

It is intended to have a first personal meeting of the WG members in Munich in summer 2002. This meeting shall be of informal kind with emphasis on get-together and communication of personal interests and capacities to contribute to the WG work. For to start, the actual state of the WG efforts will be presented and thoroughly discussed. Then it is intended to agree in next steps and distribute work items for preparation of the first official WG meeting at MIE 2002.

As announced in the mission statement, the WG will have an official meeting at the MIE 2002 in Budapest.

In addition, the WG chair has submitted the proposal for a workshop on "Reference Image Datasets for Medical Image Processing Research and Development". At this workshop, the WG concept and roadmap as well as first datasets shall be presented and discussed. Then, after collecting and sorting ideas and comments among the workshop participants, a list of recommendations on further development of the reference image database shall be obtained as result.