Warehousing Images in the Digital Hospital: Interpretation, Infrastructure, and Integration

WIDTH *Newsletter*

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Visiting Germany from China

By Yuanyuan Wang

From Jul. 1st to Sept. 10th, 2013, Mr Yan ZHANG and Mr Xinzhou XIE, both Ph.D students under the supervisor of Professor Yuanyuan WANG at Medical Ultrasound Lab of Fudan University, visited Rheinisch-Westfälische Technische Hochschule Aachen (RWTH-Aachen) under the EU WIDTH-project.

During their stay in Germany, they went to the division of medical image processing in RWTH-Aachen. There, they had communications with the researchers and students. In addition, by attending seminars and lectures organised by the German partner, they had a clear picture of the scientific research work carried out in their medical image processing lab. As part of exchange programme, they also gave oral presentations to report their own work to the Aachen researchers. As a result, they got to know each other very well, leading them to feel that this exchange experience was quite precious.

They also took part in the research project on a remote ECG therapy system in Germany. The project is in charge of the automatic thumbnail generation for big signal and image data, which is integrated into OpenClinica electronic case report forms (eCRF). The project researchers have developed a software in which the data on the server side can be processed instantly and the ECG thumbnail can be automatically generated with the patient ID and data quality included. The work has been successfully accomplished and a manuscript has been submitted to the conference of SPIE Medical Imaging 2014.

While in RWTH-Aachen, both students from China attended the professional course on the medical image processing. In the course, they systematically learned the classical medical image processing methods and got familiar with the Java programming by ImageJ in medical image processing.

In conclusion, this exchange project is very successful. It helps Mr Yan ZHANG and Mr Xinzhou XIE to enhance their knowledge. Furthermore, it provides a better platform in understanding different cultures. More importantly, it opens the channel of communications between different labs and creates better opportunities for further cooperation.

Visiting uniklinik in RWTH-Aachen.

Visiting Uniklinik in RWTH-Aachen.

Visiting Italy from China

From July 10th to July 24th, Prof. Yuanyuan Wang and Dr. Yu Ma from Fudan University visited Europe for two weeks.

Visiting Pisa, EndoCAS LAB.

Visiting Athens.

In the first week, they visited Greece and discussed the recent research progress with Prof. Theodore Kalamboukis in Athens University of Economics. During that time, they also participated in the WIDTH workshop held in Athens University of Economics from July 15th to July 16th. In the following week, they visited Italy with the invitation of Prof. David Caramella. They firstly went to Endocas Lab at Cisanello Hospital, Pisa, giving two presentations there, and communicated with the lab members. Then they went to Santa Chiara Hospital, Pisa, for a visit and had discussions with the doctors.

Visiting a hospital in Pisa.

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