



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

# WIDTH Newsletter

November 2012

Edition: 10

## A successful story

Science and Technology, whereas the supervisor was Dr. Xiaohong Gao, who also participates in the online viva at the beginning and the end.

One of the WIDTH early stage researchers, Mr. Sergey Anishchenko, from Middlesex University, UK, has successfully defended his PhD viva on November 26, 2012 and become Dr. Sergey Anishchenko.

During his visit in China, GNH-SMMU, Sergey set up the experiment and conducted his simulation study, forming an important missing part in his thesis.

He visited China, General Navy Hospital, a year ago to collect data in order to evaluate his developed model on motion correction for PET scanners via digital video cameras. He had created a theoretical model but lacked real data to evaluate it. The WIDTH project came as the perfect drive force to enable him to complete his work.

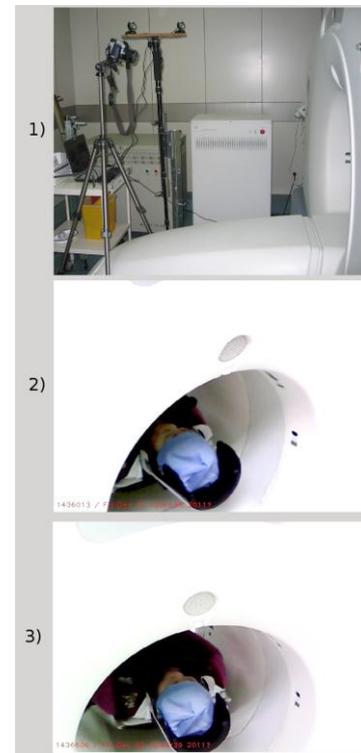


Fig. 1: Sergey (left) is shaking hands with the internal examiner, Dr. Roman Belavkin from Middlesex University, UK.

Fig. 2. (1) experimental setup: PET-scanner equipped with one camera and one stereo rig to monitor patient's head during scanning; (2) patient's photo taken from left camera of stereo rig, (3) right camera photo.

The viva was performed using modern telecommunication technology of internet video links, WebEx, and took place between Rostov, Russia where Sergey currently works, Sierre, Switzerland, home to the WIDTH partner, Henning Müller, who acted as an external examiner, and England, UK, the host place where Sergey was registered as a PhD candidate. Although there were a few hiccups during the early connection stage when it was 5:00am in the UK, 6:00am in Switzerland and 9:00am in Russia, the viva went smoothly and successfully. The Chair person was Prof. Balbir Barn, the Deputy Dean of School of

This successful story has demonstrated the significant benefit that EC Marie Curie People Programme on the career development of individual researcher, especially for young and less experienced who are working on a cross-disciplinary subject.



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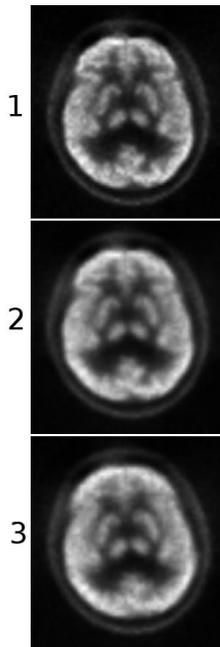


Fig. 3. PET brain images: (1) initial, (2) created using simulation of movement correction, (3) created using head rotation simulation without correction. It is obvious that the uncorrected image has more artifacts and is more blurred.

**DIARY DATES**

December, 2012

✓ **WIDTH first interim report due.**

**CONTACT INFORMATION**

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