



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

## WIDTH Newsletter

June 2012

Edition: 5

### Visiting Pisa University, Italy

The visit from Beijing Capital University of Medicine to the University of Pisa took place in May when Miss Lu Zhang, a researcher arrived at Pisa.



Her project concern with the “*Study and development of a model to determine the deformations of vessels to integrate in guidance systems for endovascular interventions, based on volumetric angiographic images, using in particular intra-operative 2D and 3D US images.*”

The project activities involve:

- 1) Study of the state art on the problem (month 1).
- 2) Elaboration of 2D and 3D US images to determine vessels centerlines (month 3).
- 3) Development of a model for deforming the static 3D arterial tree (VRML, STL,...) using centerline information (month 5).
- 4) Integration of other intraoperative information to improve deformation model performances (month 10).
- 5) Final testing and research work report (month 11).

The research activity will be carried out in the context of the Micro-VAST project. The research fellow will must attend research meetings and take into account

the work of the other researchers involved in the project.



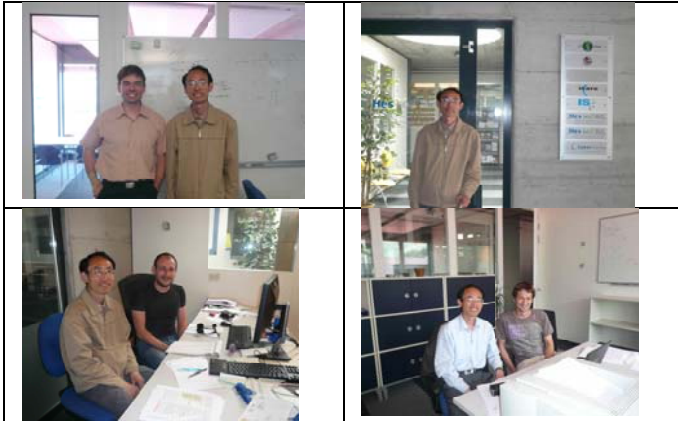
### Visiting University of Applied Sciences Western Switzerland

The second visit to the University of Applied Sciences Western Switzerland is seconded by Dr. Chang Lin from Fuzhou, China. Dr. Lin is a clinician and specialised in Otolaryngology and is widening his experience by working joining in a number of research projects that are carried out at the university. Visiting several hospitals also took place.





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Two visitors from Norway have been working with Dr. Lianyi Wang's ECHO research lab working on 4D echocardiography. They are Mr. Hallvard Andreas Eriksen and Dr. Jan Stormer.



**Visiting Tsinghua First Affiliated Hospital, China**

On the other hand, staff exchange from Europe to China has been actively executed.

<p>(a) A2C (Apical 2 Chamber)</p>	<p>(b) A3C (Apical 3 Chamber)</p>	<p>(c) A4C (Apical 4 Chamber)</p>	<p>(d) A5C (Apical 5 Chamber)</p>
<p>(e) PLA (Parasternal Long Axis)</p>	<p>(f) PSAA (Parasternal Short Axis of Aorta)</p>	<p>(g) PSAP (Parasternal Short Axis of Papillary)</p>	<p>(h) PSAM (Parasternal Short Axis of Mitral)</p>



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## DIARY DATES

July to September, 2012

✓ European partners will visit Chinese partners.

## CONTACT INFORMATION

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