Ph.D. student position in medical reconstruction

Objective	Work on medical reconstruction with deep learning

The Institute for Computer Graphics and Vision at Graz University of Technology, Austria, announces one new PhD student position in the research field of medical reconstruction, which is granted for two+ years. The designated start-date for the associated FFG-funded project will be end of 2018.

The focus of the project is on the automatic reconstruction of cranial defects. The primary task will be to conduct world-class research in reconstruction and visualization technology from patient computed tomography data.

Description

The applicants must have relevant background, which also must be sufficiently documented in the application, and their research interest should fit within existing activities in reconstruction. With this opening, we are primarily searching for a candidate in medical reconstruction with Deep Learning. If applicants can report experiences with related research, they should verbosely document this. Candidates are also encouraged to provide a short description of their research vision as well as letters of recommendation from their previous employers or university teachers. The project will also require excellent programming skills in C++ and Python. Knowledge of VTK and ITK libraries is also preferred. Furthermore, very good spoken and written English is essential for the position.

We offer a full-time work contract, including specified time to finish a Ph.D. Thesis, and good salary, according the in 2013 at Graz University of Technology valid collective agreement. The research will be carried out under Prof. Dieter Schmalstieg, who is full professor and head of the Institute for Computer Graphics and Vision at Graz University of Technology (TUG), Austria. His current research interests are augmented reality, virtual reality, real-time graphics, medical visualization and 3D user interfaces. The Institute for Computer Graphics and Vision at Graz University of Technology is the only Austrian academic group with the charter to address both Computer Vision and Computer Graphics, and is carefully nurturing a culture of Digital Visual Information Processing to resolve the artificial boundaries between computer graphics and computer vision. The research at ICG is focused on Computer Graphics, Visualization, Medical Computer Vision, Object Recognition, Object Reconstruction, Robotics, Virtual Reality and Augmented Reality.

If interested, please send an introductory letter and CV to Jan Egger, egger@icg.tugraz.at

Team	Computer Graphics
Contact	Egger Jan, Schmalstieg Dieter
Offered as	Dissertation
	2019
Duration	-
	2022