

PhD \ Postdoc position in 3D Graphics

Work environment

The **Electronics and Informatics department (ETRO)** belongs to the Faculty of Engineering Sciences at the Vrije Universiteit Brussel (VUB). ETRO performs research on the representation, processing, transmission and visualization of multidimensional signals. ETRO has built a large international collaboration network with a wide variety of academic institutions, industrial partners and R&D centres, and participates in numerous fundamental, strategic and applied research projects in these domains.

Research area

The research focuses on the generation of highly accurate static and dynamic 3D models based on multicamera systems. Research topics include the design of new methods for point cloud processing in multicamera systems, such as point cloud denoising, point cloud registration, 3D surface generation for non-rigid point clouds, surface registration, 3D pose estimation, 3D animation. Research in these areas aims at providing live accurate modelling and rendering of static and dynamic 3D scenes, and finds numerous applications in domains such as multimedia, robot vision and automotive industry.

Besides scientific challenges, this research position provides a great opportunity to work closely together with experienced ETRO researchers active in image, video and 3D graphics processing as well as to closely collaborate in running projects with prestigious academic and industrial partners active in these fields.

Prerequisites

Candidates for a PhD position (4 years) should prove strong academic record in engineering, mathematics, physics or computer sciences. Relevant work in 3D graphics is a must.

If you are candidate for a postdoc position, you must already have extensive experience in computer graphics and an excellent track record with relevant publications in renowned journals and conferences. The postdoc position is planned for 2 years, and it may be extended to 3 years.

In both cases, the selected candidate must have strong mathematics / digital signal processing background coupled with good programming skills (C/C++ and MATLAB). You have excellent oral and written communication skills. Fluency in English is a must, given the international character of the department.

Interested candidates should submit their application, including a motivation letter, a CV, BSc and MSc transcripts of grades, the MSc thesis, the PhD thesis for the postdoc candidates, a list of projects and publications, and the names of two people who could provide references.

The application should be sent to:

Prof. Dr. Ir. Adrian Munteanu
Email: acmuntea@etrovub.be
Web: www.etro.vub.ac.be

