

*UNIVERSITE CATHOLIQUE DE LOUVAIN (UCL-[www.uclouvain.be](http://www.uclouvain.be)) is the largest French-speaking university in Belgium, with about 30800 students and 5800 academic and administrative staff. UCL offers complete master programs for all possible disciplines. R&D activities of particular strength are organized in programs in order to promote research-based education.*

**Louvain Interaction Lab, Louvain School of Management Research Institute, has one open position for PhD research fellows in 2D/3D gestural interaction.**

The PhD research fellows will be part of the research group Louvain Interaction Lab, under the supervision of Prof. Jean Vanderdonck jointly with the research group Institut de Recherche en Mathématique et Physique (IRMP-<http://www.uclouvain.be/irmp>), under the supervision of Prof. Paolo Roselli. The first research group is conducting research, development, and consultancy services in the area of Human-Computer Interaction (HCI), more precisely in the area of engineering of interactive computing systems (EICS), which is located midway between information systems, software engineering, and human-computer interaction.

The PhD is aimed at conducting a research towards more usable and natural gestural interaction with a variety of devices (ranging from small devices to large surfaces), in a variety of environments (e.g., office vs domestic) according to various gesture recognition techniques. The ultimate goal is to develop new algorithms for efficient 2D/3D gesture recognition, independently of the context of use, so as to seamlessly support end users in their gestural interaction. The PhD will be co-supervised by Prof. Jean Vanderdonck for the HCI part and Prof. Paolo Roselli for the mathematical part.

The PhD research fellows covers a full-time researcher employment of two years, renewable once for two more years. The renewal is conditioned by the significant progress of the PhD towards the goal.

**Qualifications**

The successful applicant must have earned a master's degree or equivalent in computer science, informatics, information systems, software engineering or in a closely related field, or have submitted the master's thesis before the application deadline. In the latter case, it is required that the master's degree be awarded within 3 weeks after the application deadline.

A solid background in computing science or software engineering is required. Good knowledge of human-computer interaction (HCI) in general and/or in gestural interaction combined with practical software development skills and experience will be considered an advantage when candidates are ranked. A mathematical background will be also appreciated.

In addition to the required educational background, the following criteria will be evaluated: competence and grades on completed course work, quality of the master's thesis, publications (if any), research and teaching experience, practical software engineering skills and experience. A possible outline of a research plan for a potential PhD project will also be taken into account.

The candidate must be diligent and display the ability to work independently, supplemented with regular guidance, and is expected to carry out high-quality research and to publish the results in international workshops, conferences, and journals.

The PhD research fellow must enroll in the PhD programme in Computer Science, Louvain School of Engineering (<http://www.uclouvain.be/en-31498.html>) and must meet the formal admission requirements for admission into the PhD program. The employment period may be reduced if the

successful applicant has held previous employment as a research fellow. The candidate must be enrolled as a PhD student within 3 months from the start of the employment.

Certified English or French translations of supporting documentation, such as diplomas and transcripts, are required. **The transcripts must specify the topics of the course work and grades on the bachelor and master's level.**

### **Application procedure**

Applications will be evaluated by an expert panel of two members. Applicants are asked to submit their application and CV into an archive file via [transvol.sgsi.ucl.ac.be](mailto:transvol.sgsi.ucl.ac.be) to the following email: [jean.vanderdonckt@uclouvain.be](mailto:jean.vanderdonckt@uclouvain.be). The application should include:

- Master thesis (PDF or PS)

- Copies of selected academic publications (no more than 15)

- A CV with a complete list of academic publications

- Diplomas and certificates

Applicants should indicate which publications or parts of publications should be given special consideration in the evaluation. If the documents submitted are not in a French or in English, the applicants must submit certified translations of these. The transcripts must specify the topics, the course works, and the grades at the bachelor's and master's degree levels.

Applicants should note that the evaluation will be based on the application submitted electronically within the submission deadline. The applicants are responsible for ensuring that all the documentation is submitted before the closing date of **February 6<sup>th</sup>, 2017**. It is of utmost importance that all publications to be considered in the evaluation are included in the application, since these are sent electronically to the expert panel. If no application submitted for this deadline is selected, this position will be reopened.

### **Contact:**

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