

PhD Scholarship at Université Paris 13 France

Robust Transmission of 3D Video

A joint research project entitled **Robust Transmission of 3D Video** between Laboratoire de Traitement et Transport de l'Information, Université Paris 13 and Centre for Digital Home, Multimedia University is looking for a PhD candidate. The aim of this PhD research is to improve the performance (in terms of QoE) of a 3D video transmission over unreliable communication networks, with the specific objectives given below:

1. Low Complexity Cross Layer Optimization. The first objective is to propose a novel low complexity semi-optimized cross layer optimization for heterogeneous networks and devices, which takes into consideration the limited monthly usage quota of a typical wireless broadband.
2. Distortion Model. The second objective is to come out with a mathematical relationship between the perceived 3D video quality and packet loss ratio. In other words, the work will involve estimation of Quality of Experience (QoE) of the user, based on measurable Quality of Service (QoS) metric and no reference subjective 3D video quality test.

The ideal candidate should possess:

1. A Master's degree in Electronics/Telecommunications engineering or related field. Candidate with Master's degree in IT/Computer Science will be considered as well.
2. Background knowledge or prior experience in digital video compression and digital communications
3. Excellent command of English.
4. Independent and self-motivated.

There is a dual PhD program, which means the candidate will spend 14 months at Université Paris 13 under the supervision of Prof. Anissa MOKRAOUI and 22 months at Multimedia University under the supervision of Assoc. Prof. Dr. CHANG Yoong Choon. The candidate will receive PhD degrees from both Université Paris 13 and Multimedia University. The thesis will be written fully in English.

The scholarship will cover tuition fees, living expenses and accommodation at Université Paris 13 for 14 months, with the remaining 22 months expenses at Multimedia University to be covered by MyPhD grant from the Ministry of Education Malaysia.

Interested applicants are requested to submit their resumes through email to Assoc. Prof. Dr. Chang Yoong Choon (ycchang@mmu.edu.my)