Friday 13 January 2012

Object: Program description of the ERASMUS MUNDUS Masters Vibot
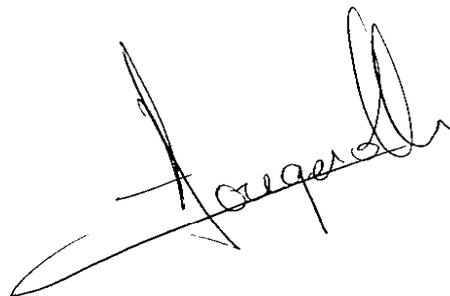
To whom it may concern,

The VIBOT Master (VIsion and roBOTics) is the only Erasmus Mundus Master program in computer vision and robotics, awarded by the European Commission, and aims at recruiting the best students all over the world. The program started in 2006 and has been renewed in 2011 for five more years. The VIBOT Master is a four semester educational program, supported by three universities: Heriot-Watt university in Edimburg, Scotland, the University of Girona, Spain, and the University of Burgundy (coordinator) in Dijon and Le Creusot, France. The students spend one semester in each university, then pick up a research topic for the fourth semester, which can be spent either in university research labs or in industry. All the classes are taught in English. At the end of the program, the students have acquired a strong and wide background on artificial vision with direct applications for image processing (from calibration, acquisition, non conventional imaging techniques, up to image interpretation and advanced processings). Some other important skills also include deep knowledge in autonomous robotics and medical imaging. It should also be noticed that the acceptance rate in the Vibot program is extremely low (more than 500 applications for approximately 20 grants). Each semester corresponds to 30 ECTS (European Credit Transfer).

In detail, the program for the academic years 2010-2012 is as follows. Semester 1 takes place in Scotland. The modules are Digital Signal Processing, Software Engineering, Data Mining and Learning, Writing in English and Cultural Studies, Image Compression Communication, and Introduction to Image Processing. The second semester takes place in Spain. The modules are Fundamentals of Robotics, Autonomous Robots, Scene Interpretation and Segmentation, Visual Perception, Real-Time Image Processing, and Local Culture. The third semester takes place in France. Its modules are Pattern Recognition and Statistics, Image Analysis, Infrared Imaging and Physics, Human Vision Psychophysics, 3D Digitization, Medical Imaging, Biological Basis of Medical Imaging, and Local Culture. The fourth semester corresponds to a 4-6 month research training period.

The three university partners belong to European countries which do not share a common grading system for students. As a consequence, each semester transcript delivered by each university uses its own scale, which makes difficult the global understanding of the marks. Nevertheless, at the end of the fourth semester, all the marks will be gathered and reexpressed in the three grading systems. If you had any question regarding this letter or need further information for Vibot students evaluation, please, do not hesitate to contact me.

Sincerely.
Dr Yohan FOUGEROLLE
yohan.fougerolle@u-bourgogne.fr
Masters ERASMUS MUNDUS VIBOT
Course Director
12 rue de la Fonderie, 71200 Le Creusot,
France
(33)-(0)3-85-73-11-37