

## Research Grant (BI type)

**1 research grant of type BI** is now open at *INESC-ID – Instituto de Engenharia de Sistemas e de Computadores, Investigação e Desenvolvimento em Lisboa* in the Framework of the Project ARGUS -- *Activity Recognition and Object Tracking Based on Multiple Models* financed by Fundação para a Ciência e Tecnologia (FCT) through the contract PTDC/EEA-CRO/098550/2008, under the following conditions:

### 1. Activity duration

6 months starting from December 1, 2010 under an exclusivity contract according to the FCT “Regulations for Advanced Training and Qualification of Human Resources”

( <http://www.fct.mctes.pt/pt/apoios/formacao/ambitoprojectos/> ) and INESC-ID grant regulations. The grant may be renewed depending on the candidate's performance.

### 2.Objectives and summary

The objectives of the work consist in the development of algorithms and software for object tracking based on multiple model techniques in a computer vision framework. Specifically, the work in this grant will concentrate on recursive estimation methods applied to parametric multiple models. More information about the project can be found at

<http://users.isr.ist.utl.pt/~jsm/ARGUS/index.html>

### 3.Scientific supervision

This work will be performed at INESC-ID under the supervision of professors João Miranda Lemos and Miguel Barão, researchers at INESC-ID. The student will be integrated at INESC-ID in the research group on Control of Dynamic Systems ( <http://ramses.inesc.pt> ).

### 4.Qualifications and required educational level

The required educational level complies with the specified by FCT for BI type grants. The student should have at least a baccalaureate or *Licenciatura* degree in the areas of Electrical Engineering, Mechanical Engineering, Mathematics, Biomedical Engineering or similar with a solid training in signal processing and control of dynamic systems. The admission of candidates with *Licenciatura* is conditioned on FCT approval.

### 5.Evaluation criteria

Selection and ranking of the candidates will be made according to the following criteria: Degree grade (20%); Master grade (10%); Grade of courses followed in the area of the grant (20%); Evidence of knowledge in the area of the grant (20%); Publications and previous works in the area of the grant, performed in the past 5 years (10%), Overall appreciation of the candidate (20%).

Candidates must fulfill the conditions to start the grant, in particular non-nationals must have a residence authorization in Portugal, at the time of proposal submission.

### 6.Salary

According to the values stipulated by FCT in the “Regulations for Advanced Training and Qualification of Human Resources” and INESC-ID grant regulations.

### 7.Documents

Detailed curriculum vitae including grades of all the courses followed; Motivation letter; copy of academic study certificates. Optional: name of two personal references.

### 8.Application dates

Applications must be sent by email from February 1<sup>st</sup> till February 15, 2011.

### Further information and proposal submission:

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