



## Research Grant (post-doctoral)

PTDC/CTE-SPA/110909/2009

A research grant of type BPD is now open in the framework of project ANIMAR - Automated annotation of images from the surface of Mars, financed by Fundação para a Ciência e a Tecnologia (FCT), under the following conditions:

1. **Activity duration:**

1 year starting from Mars 01, 2011, 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 IST grant regulations, with the possible extension for an equal period of time.

2. **Objectives and summary:**

The objectives of the work consist in the development of algorithms for the analysis of images from the surface of Mars and the detection and classification of structures: craters, dunes, dust devil tracks and polygons.

3. **Scientific supervision:**

This work will be done at IST, Lisbon, under the supervision of profs. Pedro Pina and Jorge S. Marques, researchers at CERENA and ISR.

4. **Qualifications and required educational level:**

The required educational level complies with the specified by FCT for post-doctoral grants. The applicant should have a doctoral degree, preferably within the last 5 years, in the areas of Engineering, Mathematics or similar with significant research work and publications in image analysis, pattern recognition and content based image retrieval.

5. **Evaluation criteria:**

Selection and ranking will be made according to the following criteria: 1) Ph.D. degree in Image Analysis and Pattern Recognition (25%); 2) publication record in top image analysis journals (25%); 3) publication record in top scientific conferences (25%); 4) global evaluation by the jury and research experience in content based image retrieval (25%). Candidates must fulfill the conditions to start the grant, in particular non-nationals must have a residence authorization at the time of proposal submission.

6. **Salary:**

According to the values stipulated by FCT "Regulations for Advanced Training and Qualification of Human Resources".

7. **Documents:**

Detailed curriculum vitae including degrees and list of scientific publications; motivation letter and copy of academic certificates.

8. **Application dates:** Applications should be sent by email from February 05 till February 20, 2011. Further information and proposal submission: Jorge S. Marques, email: [jsm@isr.ist.utl.pt](mailto:jsm@isr.ist.utl.pt), tel: +351-218418297.