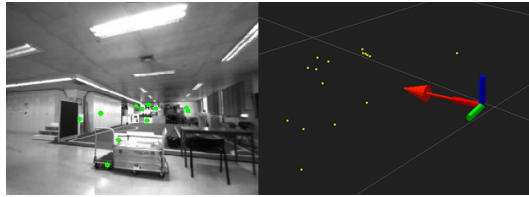
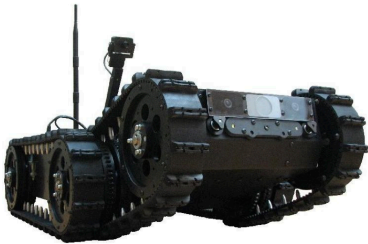


(BL 470/2011)

Open position for Research Assistant (BI)



Instituto Superior Técnico (Lisbon, Portugal) seeks applicants for 1 Research Grant (BI) for MSc within the project **Human-robot interaction with field robots using augmented reality and interactive mapping** (PTDC/EIA-CCO/113257/2009), in collaboration with Madeira Interactive Technologies Institute (Madeira, Portugal), and financed by national funds through FCT/MCTES (PIDDAC).

1. **Job description:** This position involves research and development of an interactive vision-based SLAM-6D algorithm, first in simulation, and then on the RAPOSA platform. This algorithm will fuse sensory data not only from a stereo camera pair, but also from inertial data and odometry. A depth camera will also be used for an accurate 3D reconstruction of the environment. Other tasks will include software integration of interaction elements (e.g. visualizations or control schemes) with the RAPOSA platform, and participation in system evaluations. Requirements include a Master degree, a strong background on robotics, and preferably experience with probabilistic methods in robotics.
2. **Legislation and regulations:** Law N.º. 40/2004, from the 18th of August (Research Grant Holder Statute); FCT Regulations for Advanced Training and Qualification of Human Resources 2011.
3. **Workplace:** The work will be conducted at the Institute for Systems and Robotics (ISR/IST) under the scientific supervision of Prof. Rodrigo Ventura with the support of Prof. Ian Oakley (M-ITI).
4. **Grant duration:** The grant will have a duration of 12 months, extendable up to 27 months, with estimated start in January 2012.
5. **Monthly stipend:** 980 EUR, according to the table of values of the grants awarded by FCT, I.P. (<http://alfa.fct.mctes.pt/apoios/bolsas/valores>). Voluntary Social Security (SSV) and accidents insurance are also provided.
6. **Evaluation and selection:** The selection of the applicants will be done taking into account: evaluation of curriculum (50%), and interview (50%).
7. **Application:** Send Curriculum Vitae, degree certificate, and recommendation letters (optional) to rodrigo.ventura@isr.ist.utl.pt; **deadline:** 16th of December 2011.

(further information can be found at the project webpage: <http://aurero.isr.ist.utl.pt>)