CALL FOR APPLICATIONS

Job:

Job reference:	AE2019-0227 (HDR4RTT - CSIG)
	INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Position:	Research Grants (BI)
City:	Vila Real
Research field:	Main: COMMUNICATION SCIENCES,COMPUTER SCIENCE
	Sub: Programming

Job summary:

INESC TEC is accepting applications to award 1 Research Grant for MSC .

Project:	Real time Tracking and display of multiple objects in extreme lighting conditions
Scientific Advisor:	Maximino Bessa
Duration Grant:	from 2019-12-01 to 2020-02-29 (3) . The grant may be renewed for additional periods up to the maximum duration of the project or the duration of the grant for which the candidate was selected. It can also be renewed due to another project provided that it is entirely or partly related to the work area in the call and that it contributes to the ongoing training.
Location:	Vila Real

Job description:

Work Area: Real-time tracking using HDR

Project overview: Tracking multiple objects, in real time, using computer vision algorithms is a very demanding and challenging task especially when trying to accomplish it in extreme lighting conditions. This project researches and develops new high dynamic range (HDR) algorithms to robustly track and display, in real-time, multiple objects in extreme lighting conditions to deliver a step change in the quality of the information extracted from video data.

Objectives: The fellow will focus his efforts in the following research activities, contributing for the goals of the project: -Creation of capture to detection pipeline (real-time) with YOLO -Evaluation of real-time object detection of LDR and HDR videos using YOLO using Pascal VOC training -Write technical reports and scientific papers

Academic Qualifications:	MSc in Computer Engineering or related field
Minimum Profile required:	Experience in: -C++ -HDR technologies -MATLAB -Research and development
Preference factors:	Experience in: -C++ -Publications in international journals in computer graphics area. -Work experience on Research and Development environments
Monthly Grant:	€989,70 (MSC) according to the Stipends values of the grants awarded directly by the FCT, paid by bank transfer. The grant holder may also benefit from additional incomes in the sequence of a quarterly evaluation process (Clauses 12 and 13 of INESC TEC Grants Regulation and Annex II), up to a maximum of 50% of the monthly grant.

Project duration:	2016-09-30 a 2020-03-30
Funding Entity:	ONRG (N62909-16-1-2243)

The grant contract shall be submitted to the legislation concerning the Research Grant Holder Statute , approved by Law n 40/2004, dated 18 August, amended and republished by Decree-Law No. 202/2012 of 27 August and amended by Decree-Law No. 233/2012 of 29 October and by Law No. 12/2013, of January 29, and Decree-Law No. 89/2013 of July 9 as well as by INESC TEC Grant Regulation , approved by FCT - Fundação para a Ciência e a Tecnologia (Science and Technology Foundation) in 12 January 2011 and FCT current Grant Regulation. Additional information about INESC TEC Grants Regulation and relating annexes may be found at www.inesctec.pt/grants

Selection Criteria: Curriculum evaluation based on the criteria referred to in Clause 7 INESC TEC Grants Regulation and will include individual interviews in the final stage of the selection process, with its valuation: 75% curriculum evaluation (30% CV, 25% scientific domains and 20% Expertise) and 25% interview.

Selection Jury:	President of the Jury: Prof. Maximino Bessa; Member: Prof. Miguel Correia Melo; Member: Prof. Vitor Manuel Filipe;
Notification of results:	The results of the selection process will be disseminated to interested parties by mail, as referred to in Clause 8 of INESC TEC Grants Regulation.
Application period:	From 2019-10-22 to 2019-11-06
Application submission:	Fill in the electronic form in the section Work with Us at www.inesctec.pt, , attaching the Curriculum Vitae, certificate of qualifications and other supporting documents relevant to the final assessment.