

Research Studentship (for students of a course that does not award an academic degree)

Applications are open for one Research Studentship (for students of a course that does not award an academic degree), within the framework of project MIA-BREAST, reference 2022.04485.PTDC, financed by national funds through FCT/MCTES, under the following conditions:

Scientific Area: Automation, Control and Robotics, Signal Processing.

Admission Requirements:

a) to hold a master degree and be enrolled at a course that does not award an academic degree and it is integrated in the educational project of a higher education institution, performed in association or cooperation with one or several R&D units;

b) not to exceed with this contract, including the possible renovations, an accumulated period of two years in this type of studentship, continuously or with interruptions.

Workplan: This work aims to develop a learning model in problems where the source and target domains are different. Specifically, obtaining a trained model in the source domain, where there are classified or annotated examples (images), and testing that same model in a target domain where only a few annotated examples are available and with different domains. The learning mechanism to be developed is placed in a context of semi-supervised learning with mastery of adaptation. This work intends to overcome a difficulty that results from the fact that a model is “dominated” by the source domain and when there are annotations in both domains. State-of-the-art works typically involve two models (classifiers) to solve this problem, however this proposal is innovative since it proposes the use of only one classifier.

Legislation and Regulations: Statute of Scientific Research Fellow, approved by Law nr. 40/2004, of August 18, as worded by Decree-Law nr. 123/2019, of August 28; FCT Regulation for Research Studentships and Fellowships, available on <https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2019.pdf> and <https://dre.pt/application/file/a/127230968>.

Workplace: The work will be developed at Institute for Systems and Robotics of Instituto Superior Técnico, under the scientific supervision of Professor Jacinto C. Nascimento.

Duration: The research fellowship will have the duration of **12** months. It’s expected to begin in **July/2023** and may eventually be renewed.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (<http://www.fct.pt/apoios/bolsas/valores>), the amount of the monthly maintenance allowance is € **1199.64**, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following: *Curriculum evaluation, individual interview*, with the respective weight of 60% and 40%, respectively. The jury will select the first five candidates for an interview, based on the curricular assessment.

Composition of the selection Jury: Profs. Jacinto Carlos Nascimento, João Paulo Costeira e Manuel Marques.

Announcement/ notification of the results: The final evaluation results will be communicated to all applicants by email.

Deadlines and procedures of complaint and appeal. A complaint may be lodged from the final decision within 15 working days, or an appeal to the Executive Board of IST-ID within 30 working days, both counted from the respective notification

Application deadline and formalization: The call is open from May 19 until June 1, 2023.

It is mandatory to formalize applications with the submission of the following documents:

i) B1 Form – Fellowship application (<https://ist-id.pt/concursos/bolsas/>);

ii) *Curriculum Vitae*;

- iii) Academic degree certificate;
- iv) motivation letter;
- v) declaration on honour that the applicant does not exceed with this contract an accumulated period of two years in this type of studentship, continuously or with interruptions.
- vi) proof of enrollment at a course that does not award an academic degree which must be presented at the time of contract signature;

Applications must be submitted to the email: **jan@isr.tecnico.ulisboa.pt**