

1 Research Studentship for PhD students

Applications are open for 1 Research Studentship for PhD Students, within the framework of project Responsible.AI (Contrato nº 12 - IST-ID) financed by national funds PRR (Plano de Recuperação e Resiliência), through IAPMEI - Agência para a Competitividade e Inovação, under the following conditions:

Scientific Area: Electrical, Computer and Information Engineering

Admission Requirements: To be enrolled at a PhD, at the starting date of the grant contract.

Workplan: Interaction with humans and other robots is an important component that all robots part of a human/robot team should include. To achieve a natural interaction the robot needs to be aware of the intentions of the other agents in its environment, whether they are human or robots. This is where cooperative perception is relevant, by making use of a sensor network based on a group of robots that can make use of their mobility and multiple sensors to better perceive not only their static environment, but to predict human and robot intentions. This prediction will facilitate the robot decision making, as well as its human-aware navigation and cooperation in a heterogeneous multirobot team. This thesis will fit this need by proposing new human and robot intention prediction methods allied to static environment perception to create a novel approach to cooperative perception to predict human intentions and learning the reaction of a robot team to the human intentions.

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 / LARSyS of Instituto Superior Técnico, under the scientific supervision of Professor Pedro Manuel Urbano de Almeida Lima.

Duration: The research fellowship will have the duration of 12 months. It's expected to begin in March 2024, and may be eventually renewable.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (<https://ist-id.pt/concursos/bolsas/>), 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, namely background in the research area defined in the workplan, with the respective weight of 100%.

Composition of the selection Jury: Professors Pedro M. U. A. Lima, José A. R. Santos-Victor and Luis M. M. Custódio.

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 January 24 until February 6, 2024.

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) official academic degree certificate, where applicable;
- iv) proof of enrollment in a doctoral program;
- v) motivation letter.

Applications must be submitted to the email: pedro.lima@tecnico.ulisboa.pt