

POSTDOCTORAL POSITION IN ARTIFICIAL INTELLIGENCE

Two engineering positions on conversational agents for Audio Mobility 2030

Advisor (s): Nicholas Asher – asher@irit.fr

Net salary: according to experience

Duration: 12 months

DESCRIPTION

These positions on conversational agents are proposed in the framework of the Audio Mobility 2030 (AM2030) project, which started in April 2023. AM2030 aims at enabling car manufacturers to have their own in-car audio application, regardless of the operating system. They will be able to deploy a global audio experience and offer the best content and proactive services to drivers. It is positioned as a true road companion that will help consumers adopt eco-responsible behaviors: vehicle self-diagnosis and maintenance reports, advice on driving and the use of on-board equipment.

Project partners: ETX Studio (Lead), Continental Automotive FRANCE SAS, **Université de Toulouse - ANITI**, École Polytechnique de Paris

ANITI's role in the project is related to working on human-computer interactions, in particular on natural language understanding. This will include a conversational model that can exploit conversational structure as well as content provided by modern transformer-based models. The model will learn constraints on the user's preferences, from the conversation and from his previous choices.

The conversational assistant will go considerably beyond the art of current finite state dialogue systems but offering a transparency, guarantees and explainability that large transformer models by themselves cannot. It will interact with voice based components as well as a recommendation model for actions based on the information acquired by the conversational assistant.

REQUIRED SKILLS

Applicants should have good programming skills. English communication skills are also required.

APPLICATION PROCEDURE

Formal applications should include detailed cv, a motivation letter and reference letters.

Samples of published research by the candidate will be a plus.

> applications should be sent by email to: asher@irit.fr

More information: <https://aniti.univ-toulouse.fr/>