2018-01130 - Perception / Computer Vision R&D engineer for autonomous driving applications

Contract type : Public service fixed-term contract
Renewable contract : Oui
Level of qualifications required : PhD or equivalent
Other valued qualifications : Computer vision or Robotics or signal processing
Function : Tempary Research Position

Context

RITS team in Inria Paris is a research team working on autonomous driving. The group Computer Vision in the team is looking for a research engineer with excellent programming skills and very good research knowledge to be part of the team.

The purpose of the position is to fill the gap between research works in the team and real experiments on our prototypes. The position will include research and engineering. R&D topics will cover traditional: sensors calibration (camera, single/multilayer laser sensors), obstacle/objects and road detection, multi-sensor data fusion...

Some of the developments will also be integrated in the framework of a national project in collaboration with Tier-1 Company. Thus, all developments will be integrated on real autonomous platforms belonging to RITS team and probably to partners of the projects.

Assignment

Assignments :
With the help of the other team members, the recruited person will be taken to work on the real autonomous platforms in Rocquencourt.

Collaboration :
The recruited person will be in connection with the national project’s research and private partners but also with the research environment of RITS team.

Responsibilities :
The person recruited is responsible for the development of innovative solutions in image processing and perception and will take initiatives for the development and the implementation of the developed solutions on embedded architectures. He will also be in charge of documenting and very probably publishing some of the activities.

Main activities

Main activities :
- Propose scientific solutions for perception/detection modules
- Develop programs/applications/interfaces related to the perception modules
- Write documentation on the conducted work and possible dissemination by publishing related articles in conferences and journals
- Test, change up until validation on real mobile platforms
- Present the works’ progress to the team members and project partners

Skills

Technical skills and level required :
- Good / excellent knowledge of computer vision
- Good / excellent knowledge of deep learning
- C++, Python are required,
- knowledge on RT-MAPS developing platform is a real advantage.
- Willing to implement and integrate on real platforms

Driving license is appreciated but not mandatory.
Languages : English is a must, Good French is highly appreciated
Relational skills : open-minded and professionally cooperative and curious
Benefits package

- Subsidised catering service
- Partially-reimbursed public transport