2018-00690 - Planning / Control for autonomous driving (PostDoc)

Contract type : Public service fixed-term contract
Renewable contract : Oui
Level of qualifications required : PhD or equivalent
Fonction : Post-Doctoral Research Visit

Context
We are looking for a candidate to take over a research position of planning/control for autonomous vehicle navigation. The candidate will conduct research activities, be involved in applied research projects, and will have people under his/her responsibility, mostly interns and possibly PhDs.

Our current research activities cover local/global planning, speed planning, vehicle control (fractional order controllers, plug-and-play control, close loop identification). These techniques are validated on platooning (both Adaptive Cruise Control and Cooperative ACC) and maneuvers execution.

Assignment
The candidate is supposed to work on current research activities and projects and help on the supervision of existing researches. The candidate will work on both theoretical and applied research. RITS team has autonomous vehicles and the candidate should be involved in dissemination and demonstration activities.

Main activities
The job is located in very center of Paris (France), at the INRIA national research institute. RITS team (Robotics and Intelligent Transportation System) with approx. 30 people working on planning/control, computer vision, decision, and modeling. The environment is lively, with people from worldwide origins.

Inria RITS team is a worldwide known team working on mobile robotics and autonomous navigation. RITS team is looking to reinforce its research staff and to extend researches to more complex environments: highly dynamic environments, roundabouts, cooperative driving, robust driving…

Skills
The candidate must have a PhD in either autonomous driving, mobile robotics, control or planning, and must have a strong publication record in top conferences ICRA / RSS / IROS / IV / ITSC and/or top journals.

Experience in local planning, real-time dynamic planning, CACC, as well as previous experience in real prototypes demonstrations will be highly appreciated.

- Good knowledge of autonomous driving
- Excellent records in planning and/or control
- Interest for supervision
- Experience with real prototypes

Benefits package
- Subsidised catering service
- Partially-reimbursed public transport
- Flexible working hours
- Sports facilities

General Information
- Theme/Domain : Robotics and Smart environments
- Software engineering (BAP E)
- Town/city : Paris
- Inria Center : CRI de Paris
- Starting date : 2018-09-01
- Duration of contract : 12 months
- Deadline to apply : 2018-05-31

Contacts
- Inria Team : RITS
- Recruiter : Nashashibi Fawzi / fawzi.nashashibi@inria.fr

About Inria
Inria, the French National Institute for computer science and applied mathematics, promotes "scientific excellence for technology transfer and society". Graduates from the world's top universities, Inria's 2,700 employees rise to the challenges of digital sciences. With its open, agile model, Inria is able to explore original approaches with its partners in industry and academia and provide an efficient response to the multidisciplinary and application challenges of the digital transformation. Inria is the source of many innovations that add value and create jobs.

Conditions for application
Defence Security : This position is likely to be situated in a restricted area (ZRR), as defined in Decree No. 2011-1425 relating to the protection of national scientific and technical potential (PPST). Authorization to enter an area is granted by the director of the unit, following a favourable Ministerial decision, as defined in the decree of 3 July 2012 relating to the PPST. An unfavourable Ministerial decision in respect of a position situated in a ZRR would result in the cancellation of the appointment.

Recruitment Policy : As part of its diversity policy, all Inria positions are accessible to people with disabilities.

Warning : you must enter your e-mail address in order to save your application to Inria. Applications must be submitted online on the Inria website. Processing of applications sent from other channels is not guaranteed.