

POST-DOC POSITION IN PERCEPTION AND DATA FUSION FOR AUTOMATED AND CONNECTED VEHICLES (M/F) AT VERSAILLES (78)
DESCRIPTION OF THE INSTITUTE
<p>The VEDECOM Institute is a French research and training institute dedicated to decarbonized and sustainable individual mobility that brings together public (universities, engineering schools, etc.) and private partners (manufacturers, equipment manufacturers, service companies, etc.). It has been selected as the Institute for Energy Transition (ITE) under the French Program of Investments for the Future (PIA).</p> <p>VEDECOM aims to become a European leader in innovation in the areas of decarbonated, autonomous and connected vehicles.</p>
ACTIVITIES
<p>As part of the research activities of the delegated driving team, we are launching new topics dealing with multi-sensor, multi-vehicle and vehicle / infrastructure data fusion.</p> <p>In collaboration with the infrastructure and vehicular communication teams, the main objective of this research is to adapt or design data fusion algorithms taking into account data exchanged between vehicles and road infrastructure.</p> <p>The research tasks can be divided as follows:</p> <ul style="list-style-type: none"> • Study of the state-of-the-art fusion methods and more specifically those taking into account communication means (V2X). • Adapt and enrich the data fusion algorithms already developed in VEDECOM. • Analyze in a unitary way the perception algorithms and the means of communication and estimate their noise and latencies, in order to enrich the fusion models. • Define plans for testing and validating the studied algorithms • Write research papers and intermediate reports. <p>Key word : Perception, data fusion, robotics, vehicular communication</p>
REQUESTED PROFIL
<p>Needed qualifications:</p> <ul style="list-style-type: none"> • Phd Diploma in Robotics or signal processing • 1 to 5 years of experience as Post-Doc, Researcher or young PhD. • Strong knowledge of software development and integration on embedded platforms • Strong knowledge of perception approaches for the autonomous vehicle • Comprehensive knowledge of automotive engineering <p>Technical skills</p> <ul style="list-style-type: none"> • C/C++, Matlab/Simulink, Java • Knowledge of software development processes and tools: version management (GIT, SVN ...) <p>Personnal and relationnal skills :</p>

<ul style="list-style-type: none"> • Autonomy, synthesis, rigor. • Ability to work in a team and to be proactive. <p>Linguistic skills</p> <ul style="list-style-type: none"> • French, English (spoken written) 	
Contract	Limited term contract of 18 months
Localisation	77 Rue des Chantiers, Versailles
Manager	Mohamed-Cherif RAHAL
Start	September 1st
Your profile matches? Send a CV to the following address : apply.26458-KbKiyO@apply-talentedetection.com	
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