

Researcher in Image and Signal Processing for autonomous driving applications



SMART ME UP
a Magneti Marelli company

Company

Smart Me Up is a start-up company designing the new generation of visual perception technologies for autonomous driving systems. The team (8PhD & 10 AI engineer) focus on scientific research taking a disruptive approach to tackle automotive industry challenges. Recently acquired by a major automotive supplier, we are beginning a period of rapid growth. So, we are glad to provide opportunities for any brilliant and friendly people, lovers of science, and motivated to reduce road fatalities for 1.3 million people per year down to 0 with mathematics.

Position

Smart Me Up is actively hiring signal and image processing experts to enhance its capabilities in the domains of sensor filtering and image pre-treatment. The goals will be two-fold:

- Implement data filtering and association to optimise downstream neural network performance
- Perform low-level analysis on the raw or filtered sensor data to provide rich input to neural networks and the wider autonomous driving system

The position would largely focus on lightweight algorithms rather than deep learning-based approaches, however, the work is necessarily tied to NN performance and therefore a strong degree of interaction with researchers in this area is anticipated.

The successful candidate would form part of a dynamic research group pushing the state of the art in autonomous driving, aiming to achieve more with a limited hardware resource budget on embedded platforms. The successful candidate will benefit from the full pipeline of experience from the academic to the tangible, owing to our position in a committed automotive supplier.

Profile

The successful candidate would operate within the Smart Me Up offices in Grenoble, France attached to the Perception research team. They should be able to demonstrate experience in signal or image processing (ideally both), and have knowledge of (if not experience of) the operating principles and data generated by sensors such as cameras, LiDARs, RADARs etc.

They should have familiarity with the Python programming language and ideally with the fundamentals of C/C++ and embedded programming.. Naturally, an aptitude for mathematical approaches in computer science is necessary.

Contact

Candidates should send their CV to jobs@smartmeup.io, and are free to contact the same address for any questions on the offer or Smart Me Up itself.