



Training position at Michelin Company & LAAS (Laboratoire d'analyse et d'architecture des systèmes)

Embedded detection of road roughness properties by innovative laser interferometric approach

Description

Michelin is a worldwide leader company in manufacturing and developing tyres with a strategy largely based on innovative research. Grip or friction is one of the most important performances of tyres because it guarantees the safety of passengers. Onboard real-time detection of road properties could help to improve the efficiency of active safety system as ABS or ESP.

The objective of the project is to develop new type of vehicle sensors and algorithms able to detect and analyze the road properties with unprecedented accuracy. Validation of approach will be made through several experimental measurements on laboratory and on vehicle at LAAS and Michelin Center of Technology.

Requirements

The successful candidate will be integrated in an existing team involving PhD students, professors and engineers. Knowledge and skills required are:

- Specialization in signal processing preferably for sensors design
- Past experiences in profilometry or interferometric measurements would be appreciated
- Good analytical thinking & problem solving capabilities.
- Excellent communication and interpersonal skills.
- Ease for team work, autonomy.

The candidate will be hosted by the LAAS, Laboratoire d'Analyse et d'Architecture des systèmes-UMR 8001 at Toulouse, France, under the supervision of Professor Thierry Bosch. A part of the work will be also made at the Michelin Center of Technology of Clermont-Ferrand (France).

Details and contacts

The position is available from **March 2017 for a period of 6 months**, possibly extended by a PhD. Interested candidates should submit a CV, names and addresses of references to

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