Project Title: Prototyping, Simulation, and Evaluation of Machine Learning Algorithms for Classifying Objects on Point Clouds of LiDAR Sensors

Description of Tasks:

- Implementation of machine learning and deep learning algorithms for object classification
- Support in generation of training data
- Development of simulation scenarios and point clouds
- Prototyping of nonlinear feature learning, dimensionality reduction, and classification

Qualification: Strong mathematical and programming skills, motivation in learning new things, systematic and documented work style, demonstrated background in at least one of the following fields:

- Machine learning/deep learning,
- Differential geometry/manifold learning
- Strong programming skills: Python, Matlab, C++

Duration: 3 or 6 months

Begin: as soon as possible

Language: English or German

Supervisors: Dr. Sergio Fernandez and MSc. Faezeh Fallah at Valeo Schalter und Sensoren GmbH in Bietigheim-Bissingen

Application: Please send your CV and transcript of records of your bachelor and master studies to: sergio.fernandez@valeo.com