



CERFUM

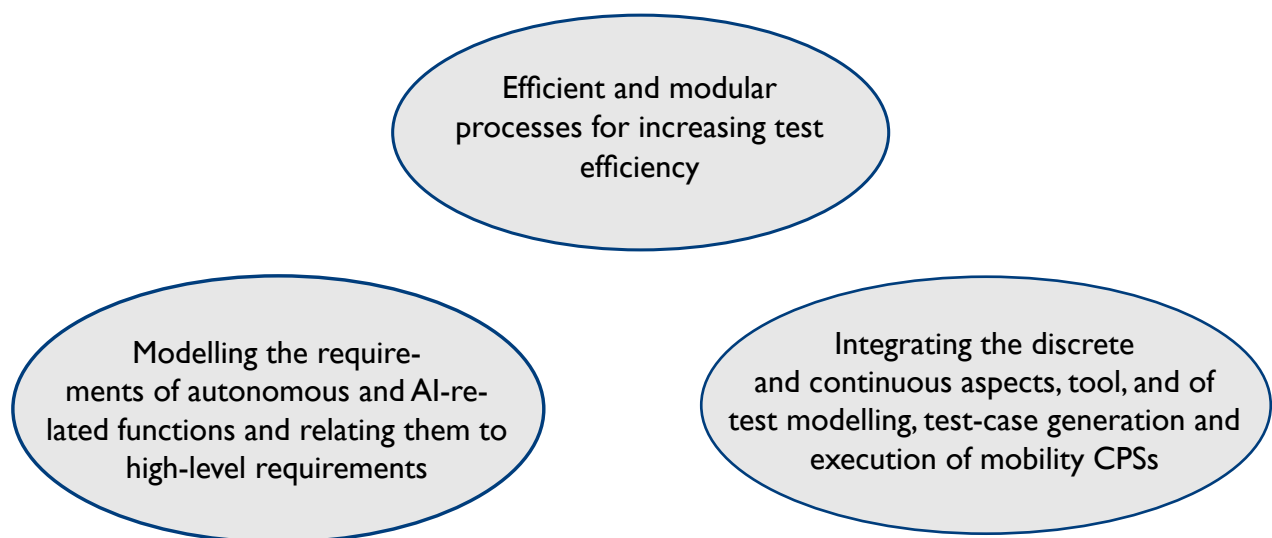
Project Proposal

CPS Test x 10

Project idea

Testing cyber-physical systems in the area of mobility is a complex and costly task. Fixing the requirements for various functions and their interactions and relating them to the system-level safety and non-functional requirements is not straightforward. This is intensified by the role of AI in autonomous functions. In this project, we aim at developing tools and processes to make the testing of CPS more efficient and effective (with an order of magnitude of reduction in effort and increase in fault detection).

Related Challenges



Possible application areas:

- Access control to vehicles and functions (e.g., in keyless and smart-card-based systems)
- Positioning and its interaction with other automated functions (e.g., lane departure and platooning)
- Processes, guidelines and benchmarks for efficient test modelling and testing CPSs



Call for partners

Halmstad University together with a number of partners will join to meet the challenges in the area. We are now looking for companies who want to take part in this work, and together with other companies and researchers from the university investigate the possibilities and challenges in Future Mobility Solutions.

Possible partners/industry sectors:

QuviQ AB, Gutec AB, Fidesmo AB, Fengco AB, Combitech AB, OEMs (Volvo Cars, Volvo AB, Scania, NEVs), Suppliers (Autoliv, Gutec), Technical Consultancy and Development (Combitech, Semcon), Transport and Logistics (Trasndev and Schenker)

Contact persons:

Academia:

Wojciech Mostowski, wojciech.mostowski@hh.se

Industry:

Thomas Arts, Quviq AB, thomas.arts@quviq.com

Centre for Future Mobility Solutions

Contact: Professor Mohammad Mousavi, m.r.mousavi@hh.se