Novinky v oblastech grantových projektů s účastí IMA

Jiří Havlík Michal Kašpárek



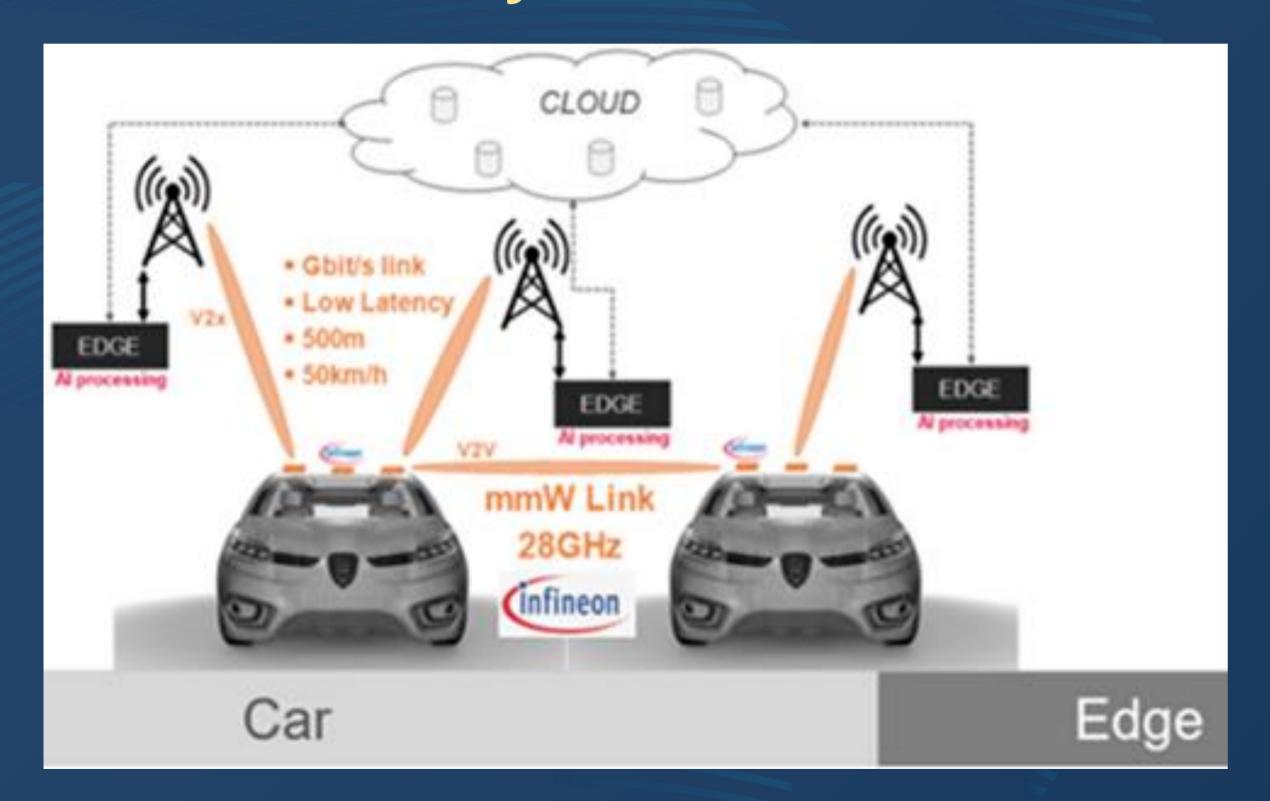


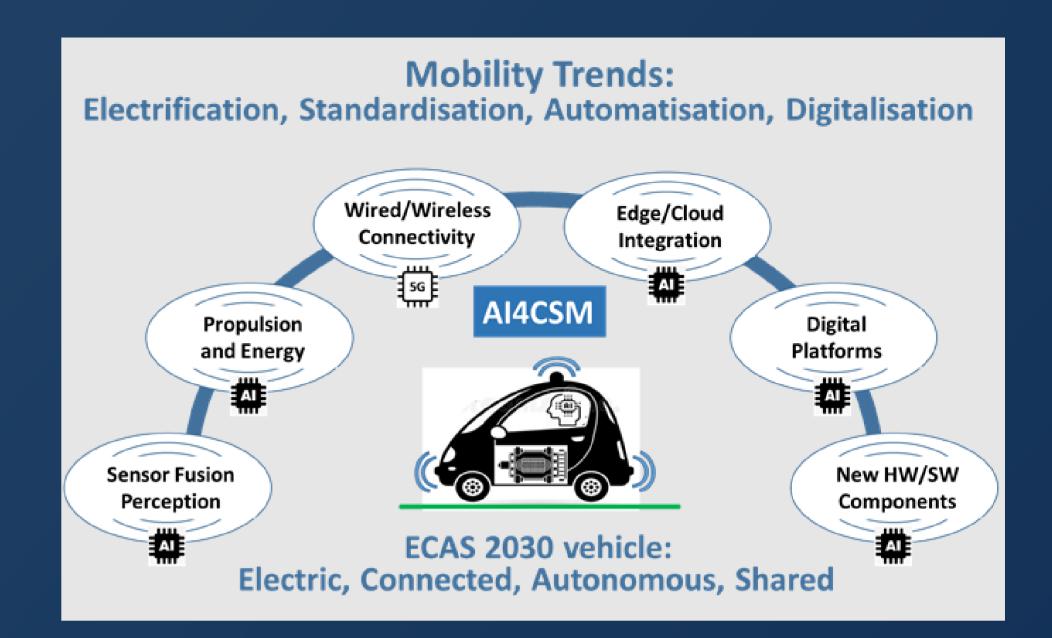
AI4CSM

Automotive Intelligence for Connected Shared Mobility

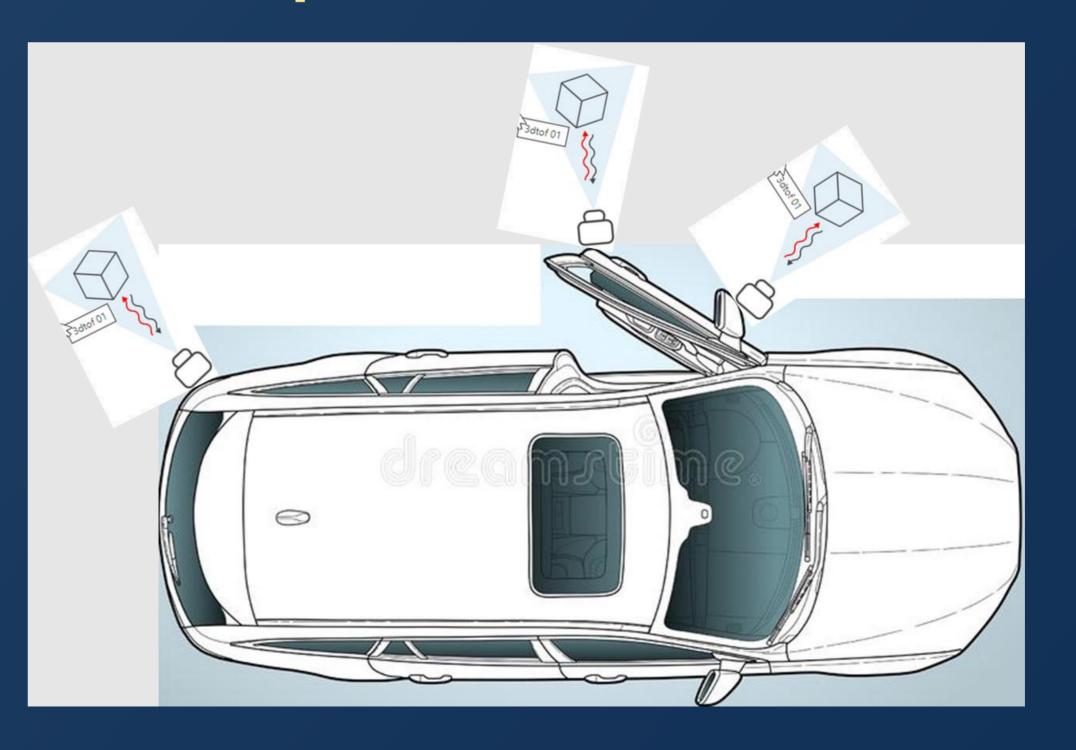


Connectivity & Communication





Perception, Sensor Fusion





ArchitectECA2030



- Robust mission-validated traceable design of electronic components and systems (ECS)
- Quantification of an accepted residual risk of ECS for ECA vehicles to enable type approval, and
- Increased end-user acceptance due to more reliable and robust ECS.

IMA challenges w.r.t. standards

- How to collect Req on the test code (TC) & code review
- (CR)
- How to set up methodology and criteria for TC development and CR
- How to apply CR methodology
- How to perform validation test
- How to evaluate test results





NewControl



Integrated, Fail-Operational, Cognitive Perception, Planning and Control Systems for Highly Automated Vehicles

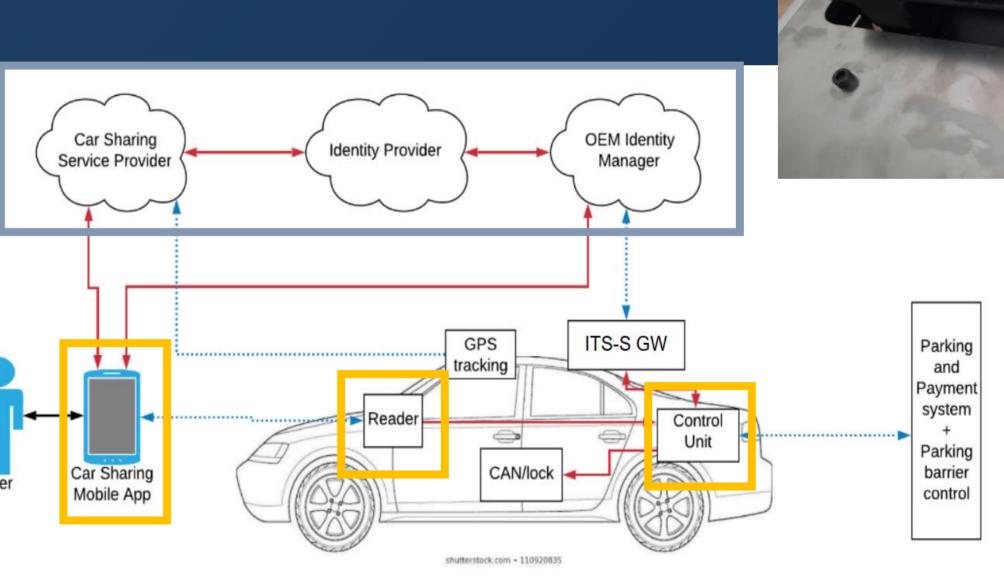
IMA CAS development

Car Access System based on contactless door handle unlocking with online+ofline autentication

- Door handle reader / sensor development
 - Form factor completed
 - Antenna optimisation in progress
 - Functional integration (NFC, BT, MC, Secure element)
 - in progress
- Server authentication functionality in progress
- Communication gateway completed
- Android app not started





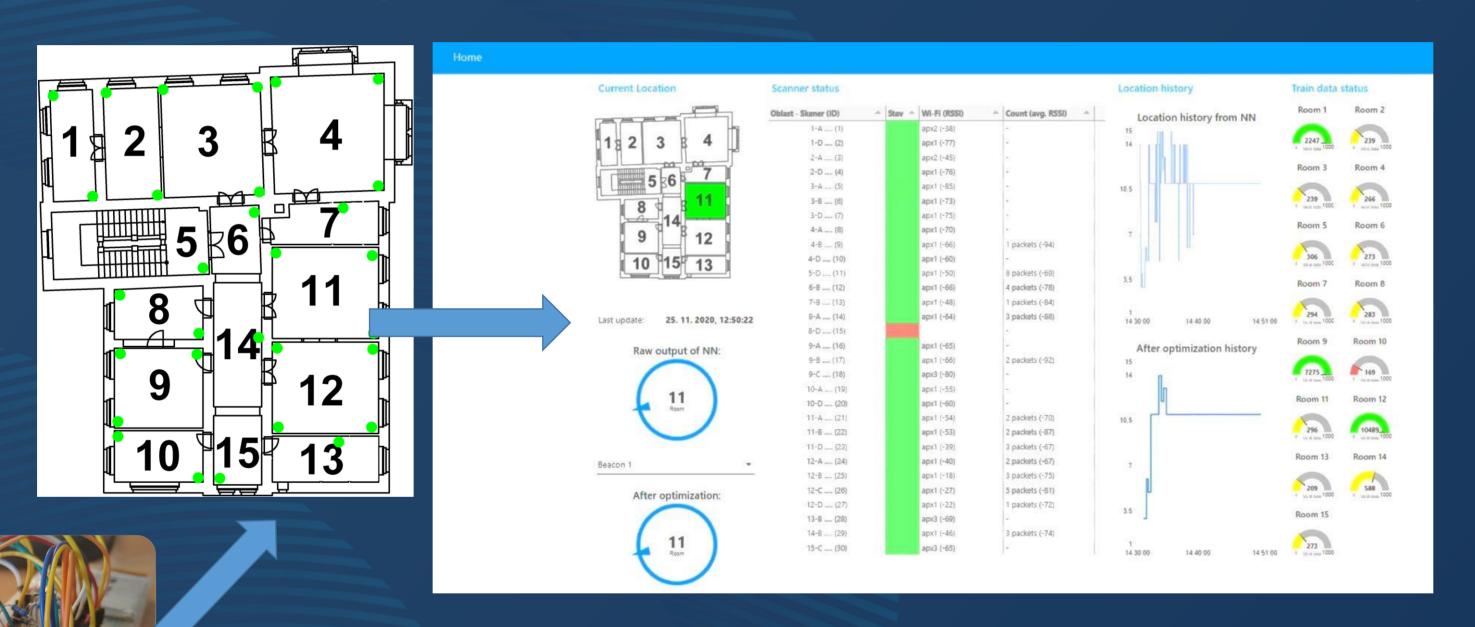




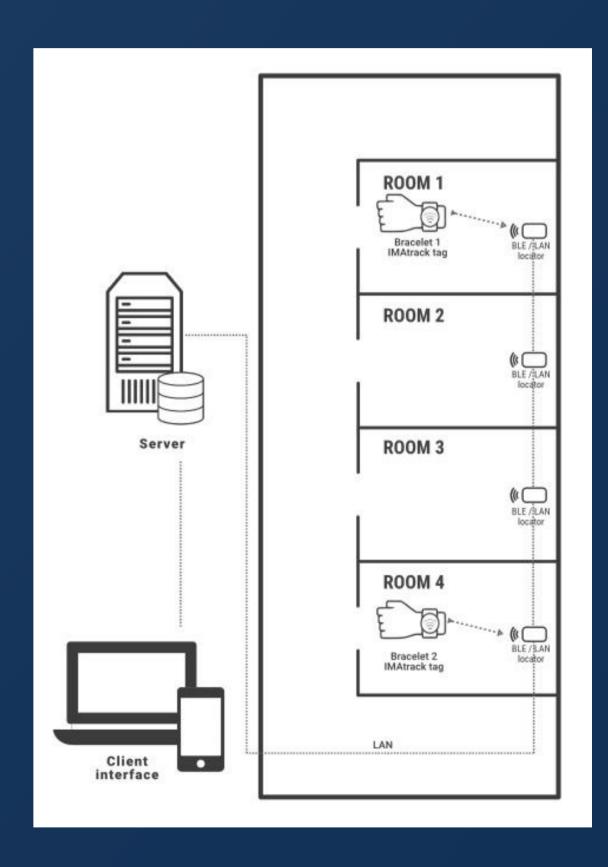
AI4DI

Artificial Intelligence for Digitalizing Industry

Development of an Indoor asset tracking system based on BlueTooth Low Energy devices with Al based positioning engine.







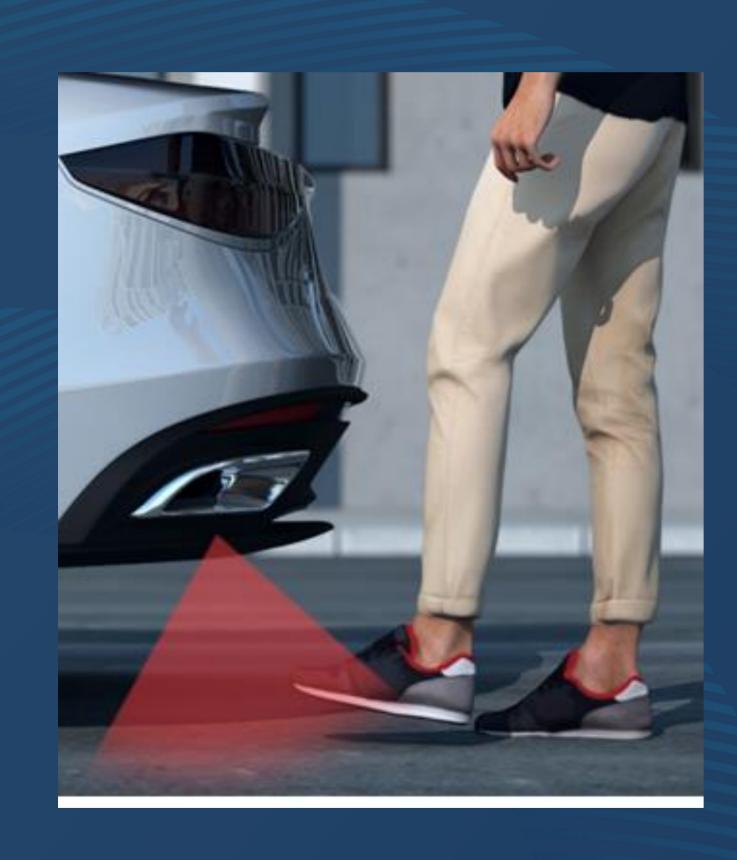


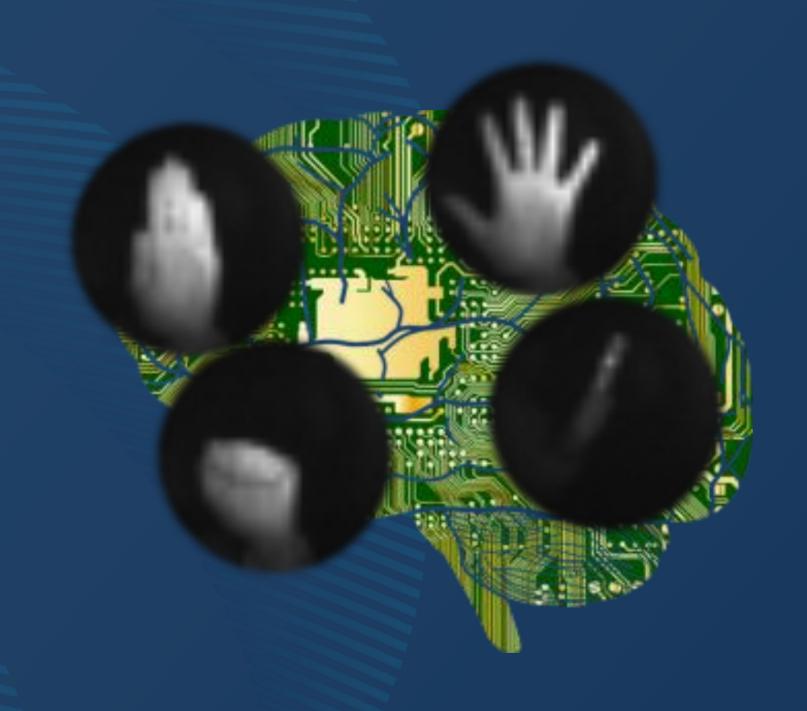
STORAIGE

Embedded storage elements on next MCU generation ready for All on the edge



Low resolution Time of Flight sensor matrix gesture recognition











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