

Trajectory Optimization for Model Scale Cars

Supervisors: Carlos Cardeira and Paulo Oliveira

Hobbyist
Human
drive.

Autonomous
Drive:
Phase 1.

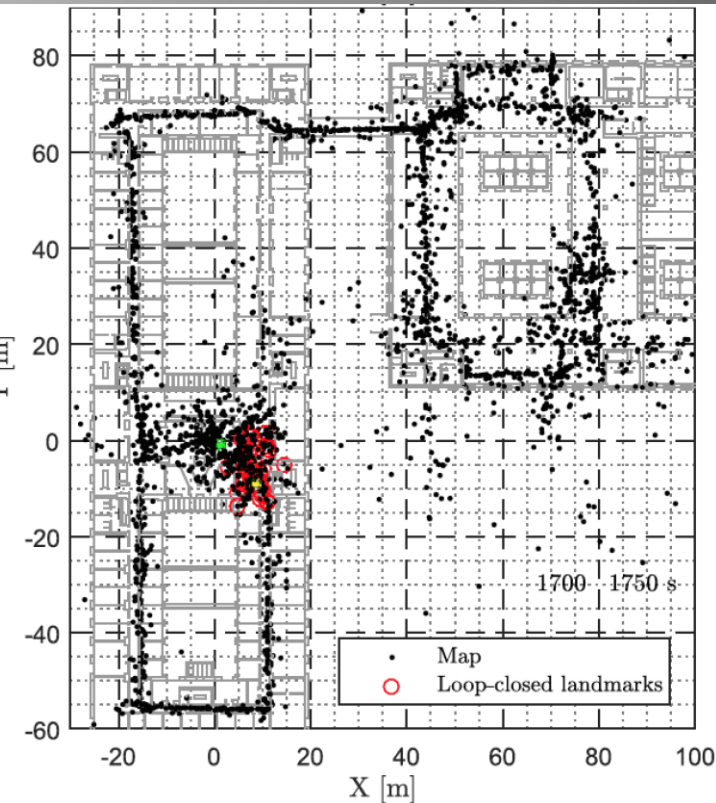
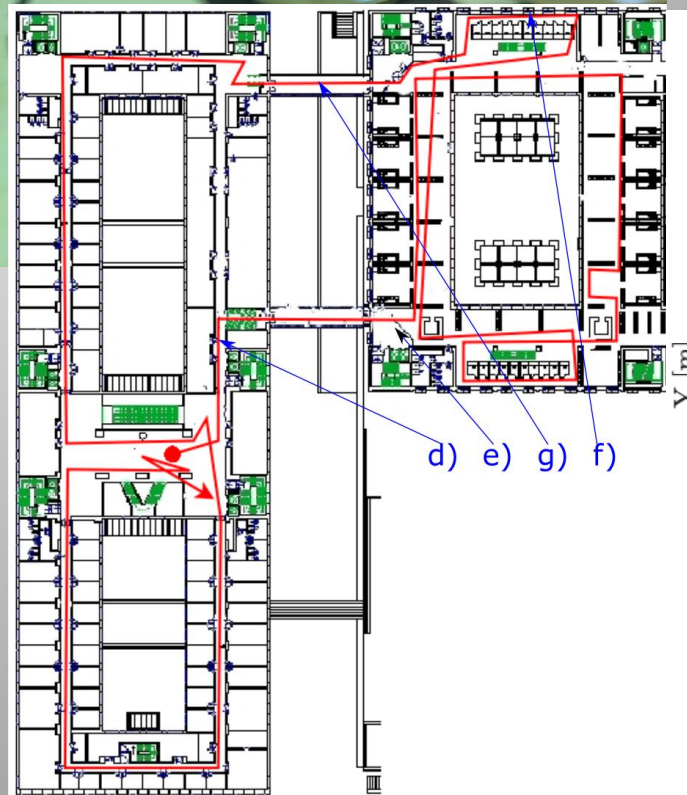
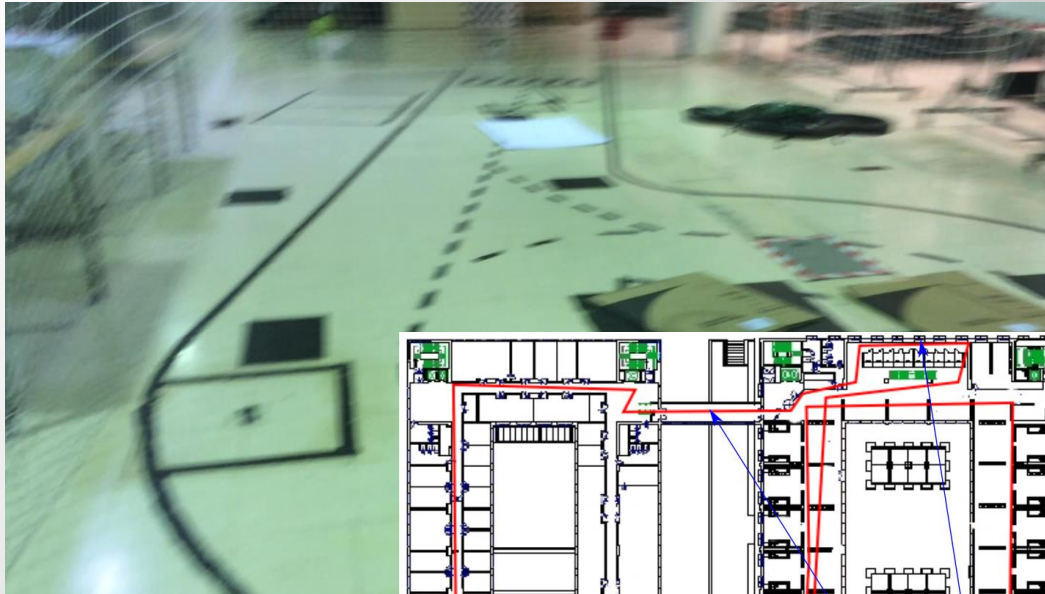


Objective of Phase 2:

Continue to bridge the gap.

Simultaneous Localization and Mapping for UAVs in Unstructured Environments

Supervisors: Paulo Oliveira and Carlos Cardeira



Inertial and Vision Sensors Fusion for Navigation of UAVs

Supervisors: Paulo Oliveira and Carlos Cardeira



And with a drone:

can we do the same in real time?

Decentralized Cooperative Control and Navigation of Heterogeneous Vehicles

Supervisors: Paulo Oliveira and Carlos Cardeira



Leader Following



And with our vehicles?