GNC Mini-Projects

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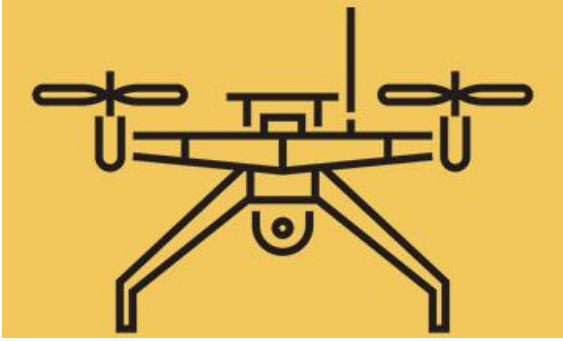
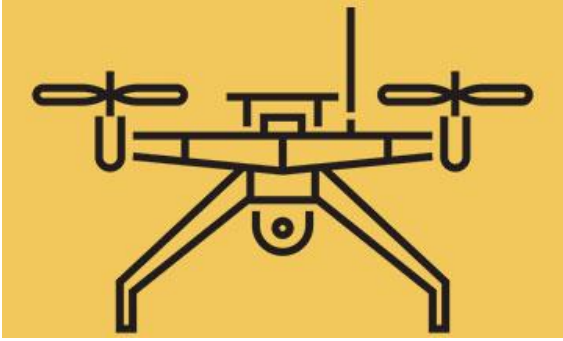
SDU

Project organization



- Organize by groups of 2 (2 students max)
- Pick one of the proposed projects (all topics should be allocated) or propose your own (validated by the teacher)
- Your project should be implemented in Matlab/Simulink with 3D visualization (eg. 3D Animation, FlightGear, etc.)
- Your project should be controllable in real-time by a gamepad or joystick

Deliverables



- Good report: paper format (6 pages, double column) with references, written in Latex (IEEE format), reproducible!

- Report contents: intro, mathematical modelling, FCS description (with precise equations for the different algorithms), simulation results

- Short video recording of your working animation

- Matlab/Simulink files organized in a zipped folder

LATEX

IEEE

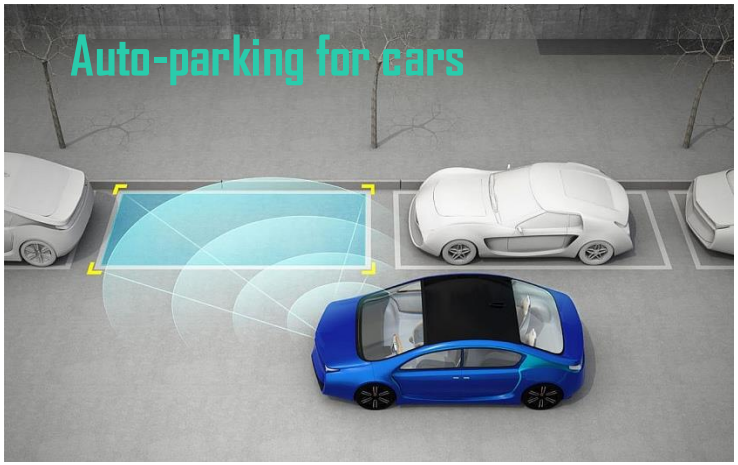
MATLAB
SIMULINK

Projects

Choose one of these 4 projects...

UAV + USV synchronization

Auto-parking for cars



Underwater glider

Helicopter

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