

Student Thesis Project (Master thesis / Studienarbeit)

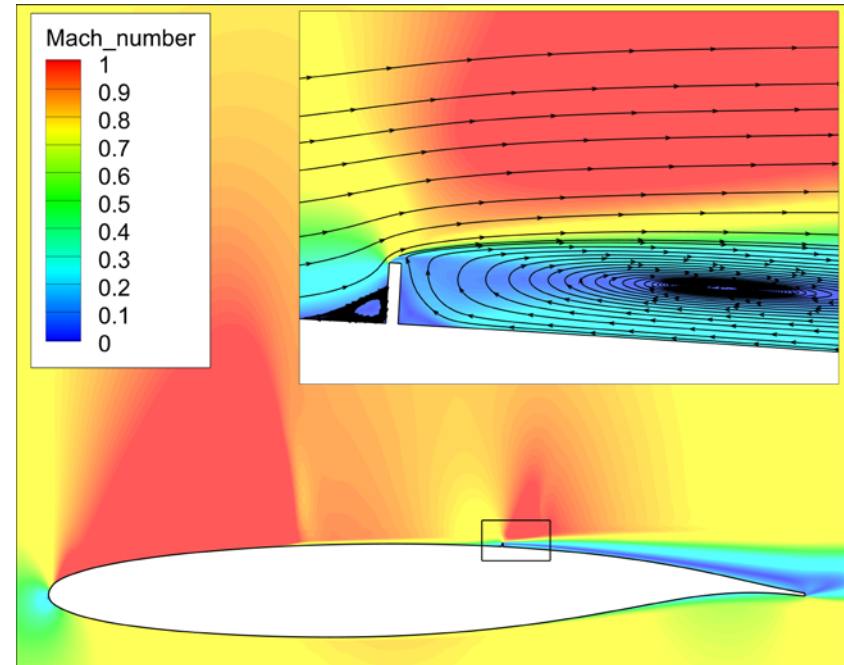
Goal: Numerical investigation of a micro tab actuator system for lift control during quasi-steady maneuvers and unsteady gust encounters

Tasks:

- Literature survey active gust load alleviation and numerical simulations (CFD)
- Automatic mesh generation for different parameterized actuator geometries
- Setup and execution of steady and unsteady CFD simulations using overset grid techniques (Chimera)
- Evaluation of actuator performance and required control rates for low response times

Requirements:

- Good knowledge in aircraft aerodynamics
- Interest in practical application of numerical methods



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