



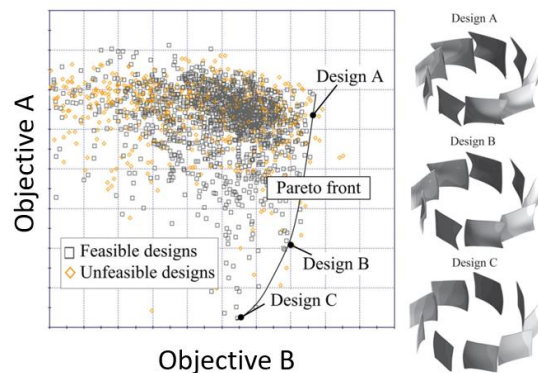
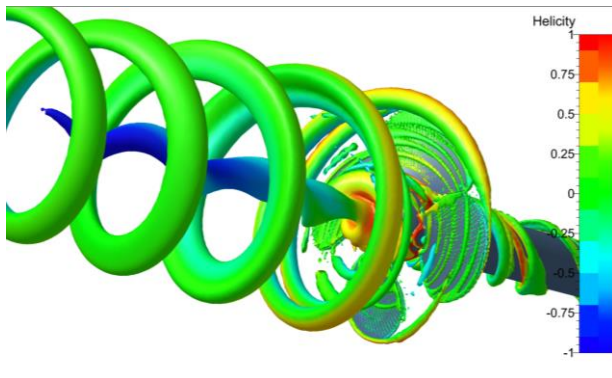
SPLIT SUMMER SCHOOL STSS2020

COURSE: Numerical optimization with engineering and CFD examples

Contact person: Boris Ljubenkov; boris.ljubenkov@fesb.hr

Main topics:

- Practical applications of Computational Fluid Dynamics (CFD)
- Engineering optimization models for decision making
- Computer Aided Design (CAD) methods for engineering optimization
- Constructing a numerical optimization workflow for the optimization



Programme structure:

- 5-day course
- Sample files will be provided for practice
- Lecture notes will be available both in on-line and printed forms

Important dates:

Course dates: 31/08/2020 – 04/09/2020
Deadline for application: 01/08/2020
Confirmation of the course: 15/08/2020
Payment due by: 24/08/2020

Price of the course: 300 € (tax included)

Programme plan:

- Day 1
- Introduction to engineering optimization (3h)
 - Examples of engineering optimization problems (1h)
 - Individual work/exercise (1h)
- Day 2
- Basics of CAD in engineering optimization(1h)
 - Application of CAD in engineering optimization software (3h)
 - Individual work/exercise (1h)
- Day 3
- Fundamental basis of CFD (1h)
 - Engineering application of CFD with examples (3h)
 - Individual work/exercise (1h)
- Day 4
- Setup of a numerical workflow for shape optimization (4h)
 - Individual work/exercise (1h)
- Day 5
- Students' final projects (4h)
 - Final presentations (1h)

Programme lecturers:

- Prof. dr.sc. Damir Vučina
Full professor at the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
- Doc.dr.sc. Ivo Marinić-Kragić
Teaching/research assistant at the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
- Dr.sc. Josip Bašić
Teaching/research assistant at the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture