Unsteady Simulations: LES, DES, hybrid LES/RANS and Machine Learning

SCHEDULE EVERY DAY (SWEDISH TIME)

- Lecture: 13.00-13.45
- Lecture: 14.00-14.45
- Workshop: 15.00-15.45

- Lunch/dinner: 15.45-17.00

- Lecture: 17.00-17.45
- Workshop: 18.00-18.45
- Lecture: 19.00-19.45
- Workshop: 20.00-20.45

Schedule, Day 1

- Lecture: Turbulence, LES
- Workshop: Task 2a
- Lecture: Turbulence, LES

- Workshop: Task 2a
- Lecture: Turbulence, LES
- Workshop: Task 2a
- Lecture: DES, DDES, SAS

Schedule, Day 2

- Lecture: DES, DDES
- Workshop: Task 2b. Break-out room meetings (one-by-one)
- Lecture: PANS

- Workshop: Task 2b. Break-out room meetings (one-by-one)
- Lecture: URANS, SAS
- Workshop: Task 2b. Break-out room meetings (one-by-one)
- Lecture: Synthetic inlet fluctuations

Schedule, Day 3, Machine Learning.

- Lecture: Neural network. $k - \varepsilon$ model
- Workshop: Neural network, $k - \varepsilon$ model
- Lecture: Neural network, Wall functions

- Workshop: Neural network. $k - \varepsilon$ model, wall functions
- Lecture: Neural network. EARSM.
- Workshop: EARSM, PINN.
- Lecture: EARSM, PINN.