DAFoam Workshop 2024

v3.1.2

Ping He

July 25, 2024

Objectives

In this workshop, we will

- Introduce DAFoam's new features.
- Have DAFoam users present their latest research.
- Discuss how to promote a more interactive community.

Schedule (Morning)

09:00–09:30	Ping He, Iowa State University. “Introduction to DAFoam’s latest features"
09:30–10:00	Chengyu Wu, Tsinghua University. “More generalizable data driven turbulence models based on FIML using DAFoam"
10:00–10:30	Bernardo Pacini, University of Michigan. “Multidisciplinary design optimization of propeller-driven aircraft"
10:30–11:00	Omid Bidar, University of Sheffield. “Data-driven turbulence model augmentation using DAFoam: sparse sensor placement, and aerodynamic shape optimisation"
11:00–11:30	Uttam Padmanaban, University of Southampton. “Data assimilation of stalled airfoils using experimental reference data"
11:30–12:30	How to promote a more interactive DAFoam community
12:30–01:30	Break

Schedule (Afternoon)

01:30–02:00	Jeongbin Park, University of Michigan. “Ducted hydrokinetic turbine design optimization using DAFoam"
02:00–02:30	Hossein Negahban, University of Quebec in Montreal. “Aerodynamic shape optimization for morphing wing technology using DAFoam"
02:30–03:00	Karim Ahmed, Iowa State University. “Field inversion of RANS modeling for transition flows"
03:00–04:00	Free discussion