Meeting Cardiovascular Biomechanics NL

Date: Wednesday, November 5th

Time: 13.45-18.00

Location: TU Delft, Building 34 (Mechanical Engineering), Lecture room C

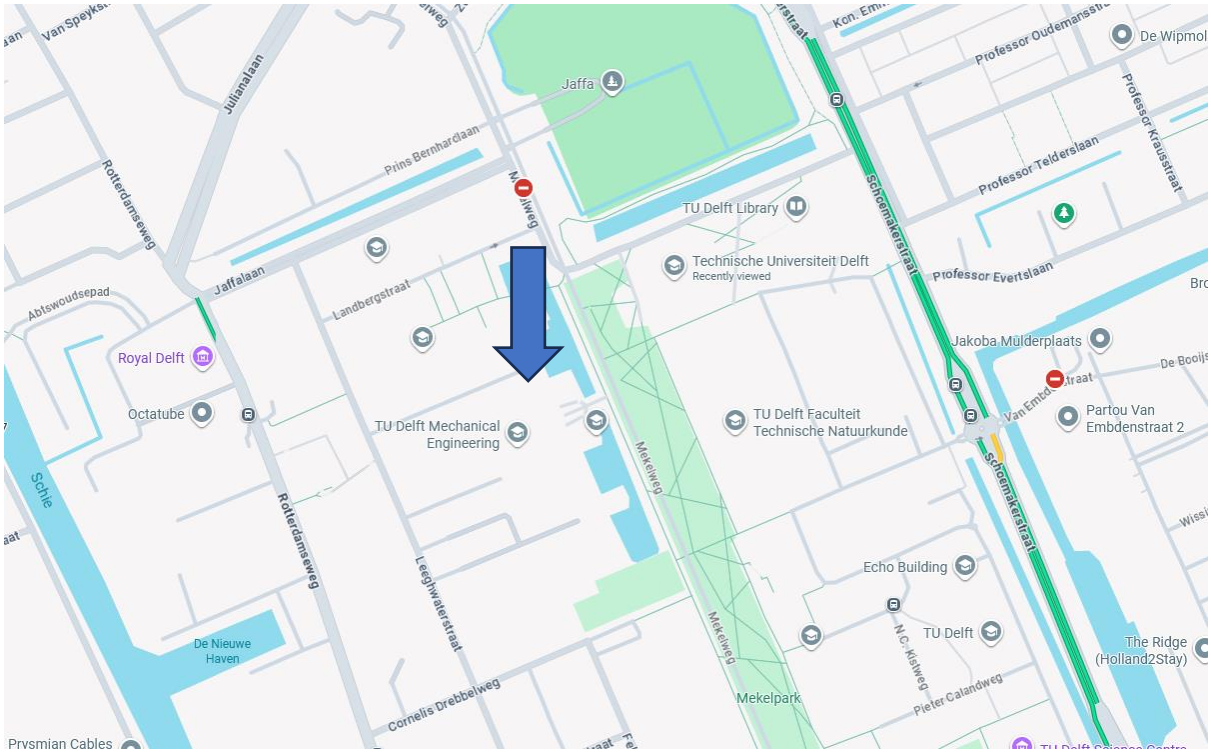
13.45-14.00: coffee

14.00-15.25: session 1

15.25-15.45: coffee break

15.45-17.00: session 2

17.00-18.00: networking and drinks



Preliminary list of speakers

Session 1:

14.00-14.05: *Frank Gijsen (TUD)* : Cardiovascular Biomechanics_NL: why?

14.05-14.25*: Frank Gijsen et al. (TUD):* Cardiovascular Biomechanics at the TU Delft

14.25-14.45: *Roel Meiburg (TU/e):* COMPUTE-HF: Digital Twins in Cardiac Electromechanics*.*

14.40-14.55: *Patryk Rygiel (UT):)* AI-driven surrogate models for flow estimation in abdominal aortic aneurysms

14.55-15.10: *Frank Otto (VU):* Virtual multi-coil treatment of cerebral aneurysms

15.10-15.25*: Cristóbal Bertoglio (UG):* data assimilation in 3D models from MRI

Session 2:

15.45-16.00: *Ali Akyildiz (TUD)*: Can Biomechanics Prevent the next Atherosclerosis-Triggered Cardiovascular Event?

16.00-16.15: *Nick van Osta (MUMC)*: Patient-specific mechanistic phenotyping of cardiovascular disease with the CircAdapt framework

16.15-16.30: *Marcel Rutten (TU/e)*: Data assimilation for ECMO applications: towards better weaning strategies*.*

16.30-16.45: *Sara Cardona (TUD):* Topology-driven modelling of soft tissue mechanics

16.45-17.00: *Pim van Ooij (AUMC):* Aortic Shenanigans:Hemodynamics and Biomechanics with MRI