Venue

[3D Imaging Centre](#)
Technical University of Denmark

Registration fee: € 100

Lectures and exercises will cover the full pipeline from data acquisition through reconstruction and segmentation to modelling based on real 3D data. There will be possibility of hands-on X-ray tomography during the school

The online Coursera course must be completed before arrival:
https://www.coursera.org/learn/cinemaxe

Accommodation nearby: https://www.zleep.com/en/hotel/lyngby/

Key dates

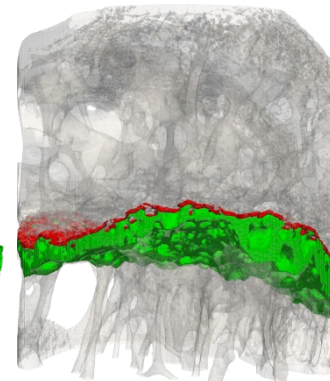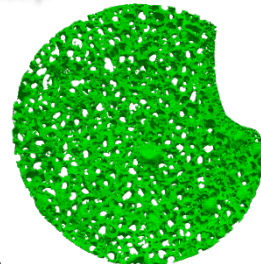**Registration deadline**: 15 July 2024
(limited number of participants, first come – first served)
Poster abstracts by: 15 August 2024

Technical University of Denmark present
The 9th International Summer School
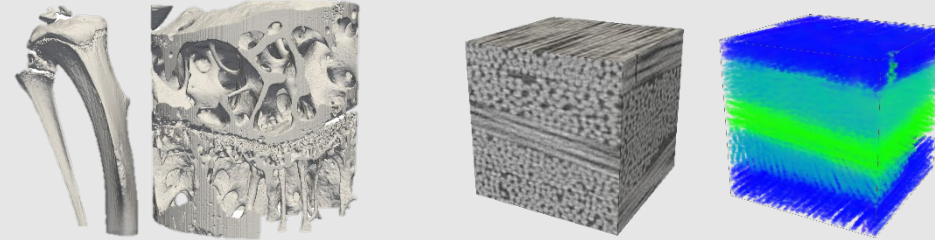
DTU

CINEMAX

First Announcement

26-30 August 2024

For PhD students, Post Docs and industrial researchers

3D imaging and modelling of natural and synthetic materials

Registration here:
https://www.conferencemanager.dk/cinemaxix/conference

You will work with real problems on your own laptop!
Please contact **Signe Dan Jensen <sidje@dtu.dk>** to receive further details directly.

Hands on exercise with 3D imaging on site!

	Monday	Tuesday	Wednesday	Thursday	Friday
9-10		9:00-9:05 Overview of the day Introduction to materials system and data for orientation analysis (Lars Pilgaard Mikkelsen)	9:00-9:05 Overview of the day Advanced methods for processing tomography data (Anders B. Dahl)	Short presentation of topics and identification of supervision needs.	Presentations by the students
10-11	10:00 Start of the summer school. Overview of the week and introduction to tomography and applications (Jens W. Andreasen)	Data acquisition with the "kitchen-based light tomography (KBLT)" (Emanuel Larsson)	Structure tensor analysis of tomography data (Vedrana Andersen Dahl)	Project work	Presentations by the students
11-12	Exercises with tomography data acquisition	Reconstruction of the data from KBLT (Emanuel Larsson)	Advanced topics in reconstruction (Jakob Sauer Jørgensen)	Project work	Presentations by the students
12-13	Lunch at DTU	Lunch at DTU	Lunch at DTU	Lunch at DTU	Presentations by the students
13-14	Tomography exercises at the DTU 3D Imaging Center	Segmentation and volumetric analysis (Vedrana A. Dahl and Anders B. Dahl)	Exercises in advanced reconstruction applications (Jakob Sauer Jørgensen)	Project work	Lunch at DTU
14-15	Tomography exercises at the DTU 3D Imaging Center	Exercises in segmentation and volumetric analysis (Vedrana A. Dahl and Anders B. Dahl)	Introduction to project topics	Project work	Closing of summer school
15-16	Getting started with the QIM platform	Introduction to structural modelling	Formation of groups	Project work	
16-17	Getting started with the QIM platform	Exercises in structural modelling (Lars Pilgaard Mikkelsen)	Initial work on projects	Project work	
17-18	Free time	Exercise and wrap-up	Initial work on projects	Project work	
18-19	Dinner at DTU	Free time	Dinner at DTU	Dinner at DTU	
19-	Poster session at DTU	Dinner outside DTU	Optional project work	Optional project work	