Venue

<u>3D Imaging Centre</u> Technical University of Denmark

Registration fee: € 150



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. All participants will present their project in a poster session at the first day of the summer school.

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

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

Key dates Registration deadline: 15 July 2025 (limited number of participants, first come – first served) Technical University of Denmark present The 10th International Summer School



CINEMAX First Announcement

25-29 August 2025

For PhD students, Post Docs and industrial researchers

3D imaging and modelling of natural and synthetic materials





Registration here: https://www.conferencemanager.dk/cinemaxx

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 Topics in reconstruction (Jakob Sauer Jørgensen)	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)	Advanced topics in reconstruction (Jakob Sauer Jørgensen)	Structure tensor analysis of tomography data (Vedrana Andersen Dahl)	Project work	Presentations by the students
11-12	Introduction to materials system and data for orientation analysis (Lars Pilgaard Mikkelsen)	Exercises in advanced reconstruction applications (Jakob Sauer Jørgensen)	Exercises in structure tensor analysis of tomography data (Vedrana Andersen Dahl)	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 and getting introduction to the QIM platform	Segmentation and volumetric analysis (Vedrana A. Dahl and Anders B. Dahl)	Introduction to project topics	Project work	Lunch at DTU
14-15	Tomography exercises at the DTU 3D Imaging Center and getting introduction to the QIM platform	Exercises in segmentation and volumetric analysis (Vedrana A. Dahl and Anders B. Dahl)	Formation of groups	Project work	Closing of summer school
15-16	Tomography exercises at the DTU 3D Imaging Center and getting introduction to the QIM platform	Introduction to structural modelling	Initial V ork on projects	Project work	
16-17	Tomography exercises at the DTU 3D Imaging Center and getting introduction to the QIM platform	Exercises in structural modelling (Lars Pilgaardawikkelsen,	Initial work on projects	Project work	
17-18	Poster Pizza and Beer	Exercise and wrap-up	Initial work on projects	Project work	
18-19	Poster Pizza and Beer	Free time	Dinner at DTU	Dinner at DTU	
19-	Free time	Dinner outside DTU	Optional project work	Optional project work	