Venue

Fuglsang Manor on Lolland in Southern Denmark

www.fuglsangherregaard.dk

Only € 825 all inclusive
Accommodation and all meals included.
(No additional course fee is charged)

Lectures and exercises cover the full pipeline from data acquisition through reconstruction and segmentation to modelling based on real 3D data.
The online Coursera course must be completed before arrival:
https://www.coursera.org/learn/cinemaxe

Full refund in case of cancellation due to COVID-19 restrictions.

Key dates

Registration deadline: 15 July 2022
(limited number of participants, first come – first served)
Poster abstracts by: 15 August 2022

Technical University of Denmark and University of Copenhagen present

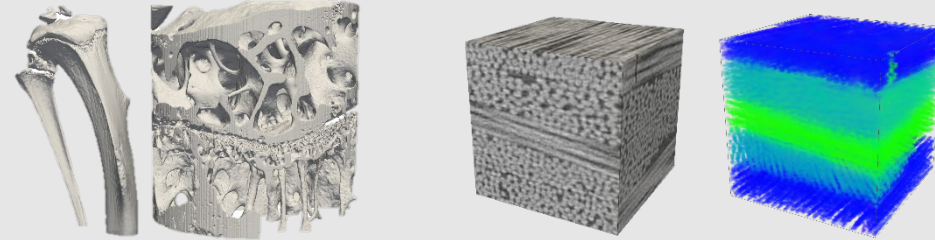The 7th International Summer School
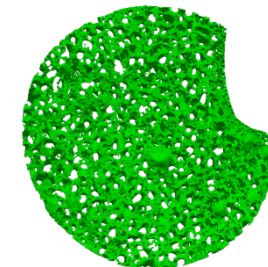
DTU

CINEMAX

2nd Announcement

22-26 August 2022

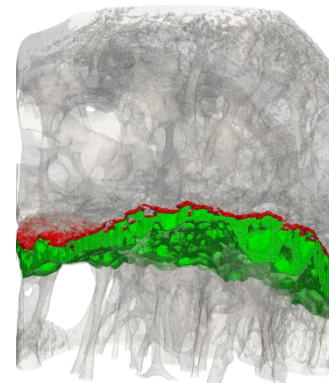**For PhD students, Post Docs and industrial researchers**

3D imaging and modelling of natural and synthetic materials

http://www.conferencemanager.dk/CINEMAXVII

You will work with real problems on your own laptop!
Please contact **Anne Heglingegård (aheg@dtu.dk)** to receive further details directly.

Hands on exercise with 3D imaging on site!

	Monday	Tuesday	Wednesday	Thursday	Friday
7.30		Breakfast	Breakfast	Breakfast	Breakfast, empty your room
9-9.45	9:45: The bus leaves from Copenhagen Central Station	9-9:05 Overview of the day. On site, hands on data acquisition with the "kitchen-based light tomography (KBLT)" (Emanuel Larsson) Introduction to materials system and data for tensor tomography (Vedrana Andersen Dahl)	9-9:05: Overview of the day. Data processing, artifacts encountered in tomography and how to deal with them (Vedrana A. Dahl and Anders B. Dahl)	9-9:05: Overview of the day Project output Short presentation of topics and identification of supervision needs.	Presentations by the students
10-10.45			Structure tensor analysis of Tomography data (Vedrana Andersen Dahl)	Project work	
11-12	11:45 The bus arrives at Fuglsang Manor. You get keys to your room.	Reconstruction of the data from KBLT with TomoPy python code implemented in Jupyter Notebooks. (Emanuel Larsson)	Advanced topics in reconstruction (Jakob Sauer Jørgensen)		
12-13	Lunch	Lunch	Lunch	Lunch	Lunch
13-13.55	Overview of the week and introduction to tomography and applications (Jens W. Andreasen)	Segmentation and volumetric analysis Spot quiz on the MOOC content (Vedrana A. Dahl and Anders B. Dahl) Q & A on the MOOC content	Exercises in advanced reconstruction applications (Jakob Sauer Jørgensen)	Project work	13.30: The bus leaves for Copenhagen
14-14.45	Spot quiz on content covered in the Coursera MOOC. Q & A on the MOOC content	Exercises in segmentation and volumetric analysis (Vedrana A. Dahl and Anders B. Dahl)	Guided tour to Fuglsang Museum of art		
15.15-16	Tomographic reconstruction introduction Q & A on the MOOC content (Jakob Sauer Jørgensen)	Structural modelling, introduction Spot quiz on topics covered in MOOC Q & A on the MOOC content			15.30: The bus arrives at Copenhagen Central Station
16.15-17	Introduction to "kitchen-based light tomography (KBLT)" and 3D reconstruction (Emanuel Larsson)	Exercises in structural modelling (Lars Pilgaard Mikkelsen)			
17-19	Dinner break	"Galla" dinner (no formal attire ☺)	Dinner break	Dinner break	
19-21	Introduction to JupyterHub and Jupyter notebooks (Aditya Shukla)	Musical soirée	Introduction to project topics Formation of groups and starting group work on presentation projects	Prepare presentations	
21-	Poster session	Free time	Group work on presentation projects		