

# Venue

Five days summer school at Fuglsang Manor on Lolland, southern Denmark  
No registration fee! You only pay for the accomodation (€473, all inclusive).

[www.fuglsangherregaard.dk](http://www.fuglsangherregaard.dk)

Lectures and exercises covering the full pipeline from data acquisition through reconstruction and segmentation to modeling of real 3D imaging data

# Key dates

Registration By: July 30, 2017

Poster Abstracts By: August 15, 2017

[www.conferencemanager.dk/CINEMAXIII](http://www.conferencemanager.dk/CINEMAXIII)



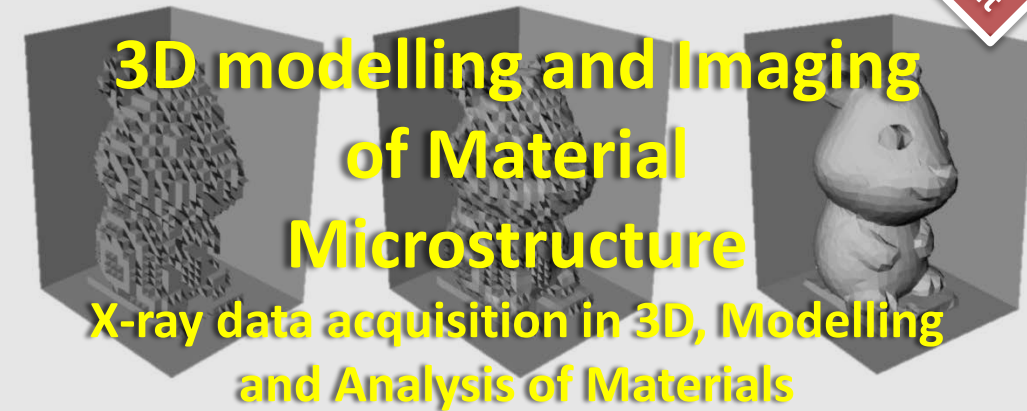
**CINEMA** – the alliance for imaging and modelling of energy applications, presents:

The 3<sup>rd</sup> International PhD Summer School

# CINEMAX III

August 28 – September 1 2017

Second Announcement



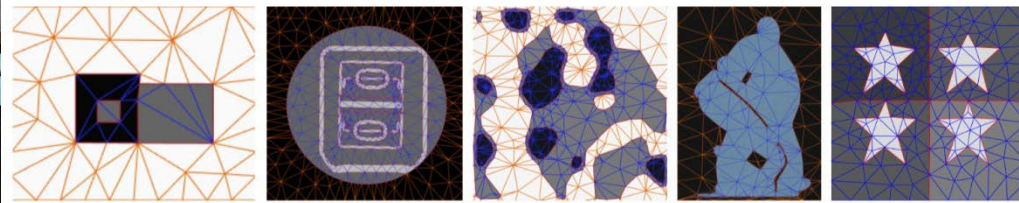
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Please email [lenc@dtu.dk](mailto:lenc@dtu.dk) to receive further details directly

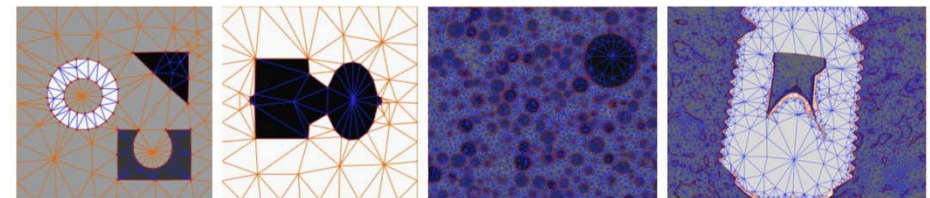
**Interreg**  
Öresund-Kattegat-Skagerrak  
European Regional Development Fund



ESS & MAX IV:  
Cross Border  
Science and Society



(a) Square (b) Sound device (c) Fuel cells (d) Toy (e) Stars



(f) Four phases (g) Single object (h) Cement (i) Dental implant

	Monday	Tuesday	Wednesday	Thursday	Friday
7.30		Breakfast	Breakfast	Breakfast	Breakfast
9-9.45	9.15: The bus leaves from Copenhagen Central Station	<b>9-9:05: Overview of the day.</b> Introduction to tomographic reconstruction (Jakob Sauer Jørgensen)	<b>9-9:05: Overview of the day.</b> Introduction to Finite element modelling (Anders Logg)	<b>9-9:05: Overview of the day.</b>	Presentations by the students
10-10.45		Advanced topics in reconstruction (Jakob Sauer Jørgensen)	Finite element modelling with FEniCS (Anders Logg)	Group work on presentation projects	
11-12	11.30: The bus arrives at Fuglsang Manor.	Exercises in reconstruction (Jakob Sauer Jørgensen)	Hands on exercises with FEniCS (Anders Logg)	Computational scaling and automatization (Brian Vinter)	
12-13	Lunch	Lunch	Lunch	Lunch	
13-13.55	<b>13-13.10 Overview of the week (Jens W. Andreassen)</b> Basics of X-ray tomography (Manuel Guizar-Sicairos)	Volumetric segmentation: principles, challenges and strategies (Vedrana Dahl, DTU Compute and Anders Dahl, DTU Compute)	Hyperelasticity (Anders Logg)	Social Event	13.30: The bus leaves for Copenhagen.
14-14.45	Imaging contrast modalities and length scales (Manuel Guizar-Sicairos)		Exercises on a finite element based material stiffness prediction using FEniCS (Anders Logg)		
15.15-16	Discovering materials microstructure and function using X-ray tomography. (Rajmund Mokso)	Volumetric segmentation strategies with hands-on exercises (Vedrana Dahl, DTU Compute and Anders Dahl, DTU Compute)	Flow modeling Stokes + Navier-Stokes (Anders Logg)		
16.15-17	Imaging life with an X-ray microscope. (Rajmund Mokso)		Exercises on a finite element based flow parameter prediction using FEniCS (Anders Logg)		
17-19	Dinner break	Dinner break	Dinner break	Dinner break	
19-21	Introduction to JupyterHub	Group work on reconstruction using Jupyter Notebooks	Group work on presentation projects	Prepare presentations	
21-	Poster session	Group work on segmentation and meshing using Jupyter Notebooks	Free time, that you can use to work on your group presentations		