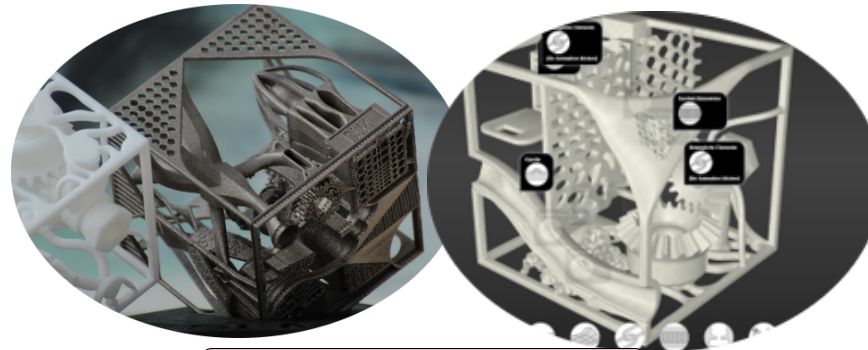
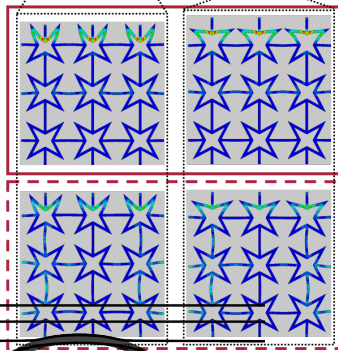
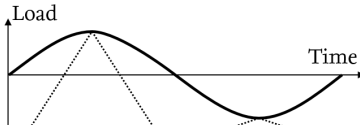
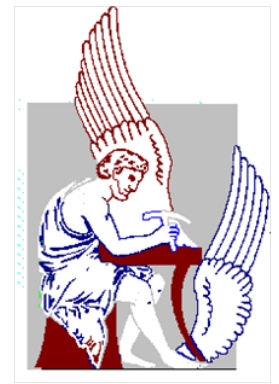
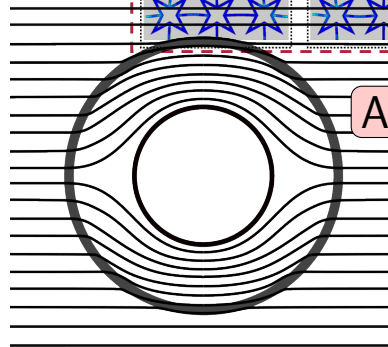


DAAD-Online-School 2020

26. October to 20. November



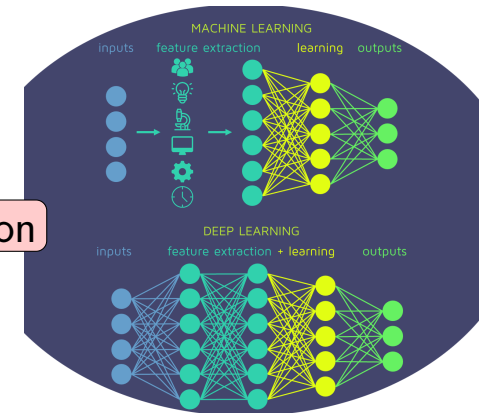
Additive Manufacturing



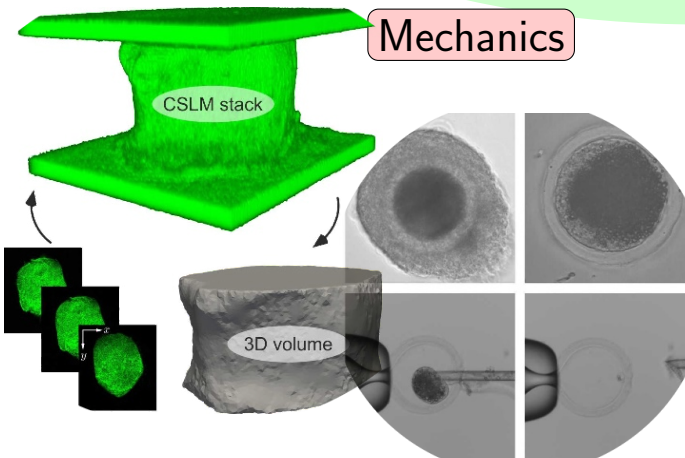
Acoustics

smARTerials

Smart Artificial Materials
digitally engineered

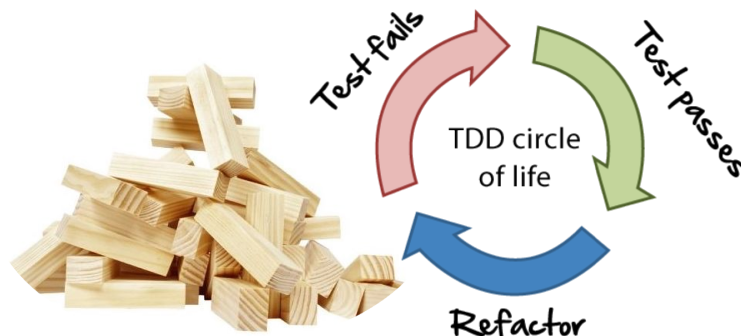


Simulation



Mechanics

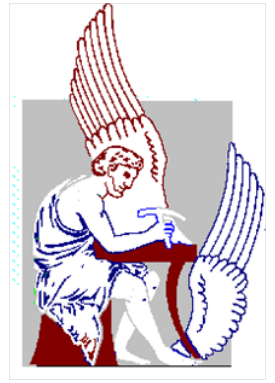
Software Development





DAAD–Online-School 2020

26. October to 20. November



TU Crete, Greece (TUC) & TU Braunschweig, Germany (TUBS)

Invite students from Informatics, Civil Engineering and Mechanical Engineering to the 2020 DAAD-Online-School for **Smart Artificial Materials – digitally engineered.**

The DAAD-Online-School will extend over a period of **4 weeks** with sessions of **3 hours**. Each week will have **2–3 days** with a session in the afternoon from **4 pm to 7 pm TUC**.

Program

Sessions:

TUC: 4 pm to 7 pm

TUBS: 3 pm to 6 pm

Acoustics

Prof. Sabine C. Langer (TUBS)

- Sound & Vibration
- Tailoring Acoustic Materials (Dr. -Ing. Tobias Ring)
- Acoustic Metamaterials (Aidin Nojavan, Lukas Outzen)

Additive Manufacturing (AM)

Dr.-Ing. Hagen Watschke (TUBS)

- Design for Additive Manufacturing (DfAM)
- Potentials and restrictions of AM (Sebastian Kuschmitz)
- Rapid Manufacturing (RM) (Raphael Freund)

Simulation

Prof. Georgios Stavroulakis (TUC)

- Data-driven neural network, direct and inverse analysis
- Digitizing Cultural Heritage: Technologies and Case Studies (Prof. E. Maravelakis HMU)
- Shunted piezocomposites (Dr. G. Tairidis)
- FEM for the estimation of insertion loss of noise barriers (Dr. N. Papadakis HMU)
- The effect of Topology Optimization in 3D printed furniture design process (Dr. I. Ntintakis HMU)
- Cognitive manufacturing, the role of process modelling and simulation (Asst. Prof. Arampatzis)

Mechanics

Prof. Markus Böl (TUBS)

- Biomechanics
- Experimental methods, especially related to biomechanics
- Material model development

Software Development

Dr.-Ing. Jan Linxweiler (TUBS)

- Research Software Engineering (RSE)
- Software Development
- Practices (SOLID Principles)
- Software Design Patterns
- Test Driven Development (TDD)

Workshop–Program

Wasiliki Sidiropoulou & Dr.-Ing. Jens-Uwe Böhrnsen (TUBS)

- Presentation of TU Braunschweig
- Erasmus Program
- DAAD Programs
- Intercultural Exchange

Registration

If you are a student from the **Technical University of Crete** the registration will be done by:
Prof. Georgios Stavroulakis and Dr. Maria Bakatsaki. (mariab@isc.tuc.gr. & gestavr@dpem.tuc.gr)

If you are a student from the **Technical University of Braunschweig** the registration will be done by:
Merle Süflow. (m.suelflow@tu-braunschweig.de)

There will be space for about 30 students to partake in this DAAD–Online–School.