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Our Sign

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Declaration of Interest re. Code_Aster Professional Network (ProNet)

Institution

Munich University of Applied Sciences (Hochschule München)

<https://www.hm.edu>

Department of Applied Sciences and Mechatronics

<http://fk06.hm.edu>

Laboratory for Modeling & Simulation

<http://www.fb06.fh-muenchen.de/fb/index.php/de/labhome.html?labid=63>

Person in charge

Prof. Dr.-Ing. Ulrich Wagner

Motivation

In our research, we use the finite element method to obtain a deeper understanding of physical processes and products. For this, a stable, validated and high-performing solver that is scriptable and allows the implementation of user routines is required.

Our students should be able to solve complex problems during their career without being dependent on specific and often expensive commercial products.

Code_Aster fulfills both aspects and is therefore our preferred FEM tool.

Applications

While our research focusses on the simulation of micro- and nanostructures, i.e., the performance and reliability of microelectromechanical Systems (MEMS) like sensors including their packaging, Code_Aster is also employed in teaching and various project studies.

Fields of interest

Material modelling, failure models, optimization

IT configuration

Local workstations running Ubuntu 16.04

Server: 12 nodes, each with 28 cores and 504 GB RAM