UNIVERSITÀ DEL SALENTO
DIPARTIMENTO DI INGEGNERIA DELL'INNOVAZIONE
Via per Monteroni
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Declaration of Interest in Code_Aster Open source

General motivation

I started working with Salome-Meca and Code_Aster in 2017 for teaching purposes, as a tool to introduce students to the main principles and capabilities of Finite Element Method. At the same time, I suggested to use Salome-Meca and Code_Aster for the final project of several students, aiming at performing static and dynamic analysis of complex aeronautical elements made in CFRP. Nowadays, several PhD students and researchers use Salome-Meca and Code-Aster for non-linear analysis of composite structures, simulation of 3D printed metamaterials, and thermal simulation of composite panels subjected to NDT controls.

Person in charge:

prof. ing. Riccardo Nobile (Associated professor in Machine Design and Experimental Mechanics)
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Teaching courses

- Machine Design and Verification (Master Degree in Mechanical Engineering)
- Computer-Aided Design and Experimental Mechanics (Master Degree in Mechanical Engineering)

Main scientific and research interest

- Composite mechanical behaviour and simulation
- Fatigue analysis
- Mechanical behaviour of aeronautical composite elements
- Advanced damage models

IT configuration

Salome-Meca and Code_Aster is installed on 12 pc available in the teaching classroom LCA (Laboratory for Advanced Calculation) having the following characteristics:

- Processor: e Intel(R) Core(TM) i7-4790 CPU 3.60GHz, 8GB RAM, Operating system: Windows 10 Pro 64bit
- Virtual Machine: Oracle VM VirtualBox, Processor: CPU 4 core, 4GB RAM, Operating system: Ubuntu 16.04 LTS