



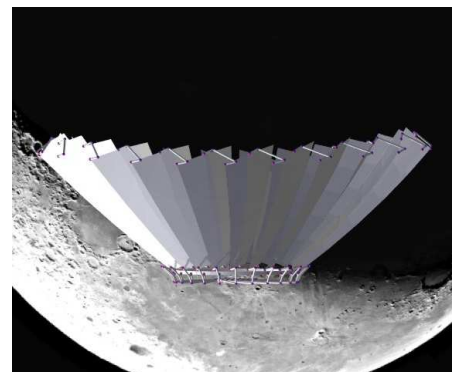
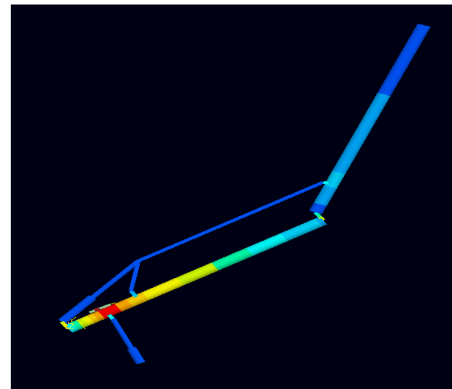
# UNIVERSITY OF LIÈGE AEROSPACE AND MECHANICAL ENGINEERING DEPARTMENT LTAS - Structural Dynamics

The Aerospace and Mechanical Engineering Department conducts research in the areas of Computational and Experimental Mechanics and more particularly in the fields of Solid Mechanics and Materials, Fluid Mechanics, Energetics and Applied Thermodynamics.

In the Aerospace and Mechanical Engineering Department, the Structural Dynamics Research Group carries out research on the modelling, simulation, control and experimental testing of mechanical systems. Recent activities focus more particularly on the following topics :

- Simulation and control of mechanisms with flexible components (e.g. large manipulators and high-speed machines)
- Experimental modal analysis of mechanical structures
- Structural damage detection and health monitoring
- Active vibration control
- Nonlinearity in structural dynamics
- Vibration testing and fatigue analysis of mechanical structures

With a strong experience in the field of modelling, simulation and control of flexible mechanisms, the Aerospace and Mechanical Engineering Department can provide technical expertise for the development of remote handling technologies.



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