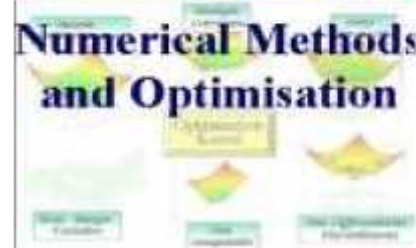


CENAERO, the Centre of Excellence in AEROnautical research, is an applied research centre with focus on the development of multidisciplinary simulation technologies for Aeronautics

- *Virtual Manufacturing*: simulation of welding (fusion or friction processes, in particular Friction Stir Welding, Laser and Electron beam welding), machining, forming, etc.
- *Multiscale Material Modelling*: fatigue and rupture analysis by integration of new numerical methods capable of propagating cracks inside of 3D parts and composites. Development of models for fatigue of bonded joints, micro-meso-macro modelling
- *CFD-multiphysics*: simulation of large scale turbulent unsteady flows with emphasis on aero-acoustics and fluid-structure interaction. Large mesh generation around very complex geometries
- *Multidisciplinary Optimisation*: Parallel, multi-objective, multi-constrained optimization. Typical application : turbomachinery blade shape optimization. Our MAX tool provides native access to CAD systems such as CATIA V5 or Unigraphics



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