MATLAB and Simulink Italian Academic Forum

Insegnare con MATLAB e Simulink

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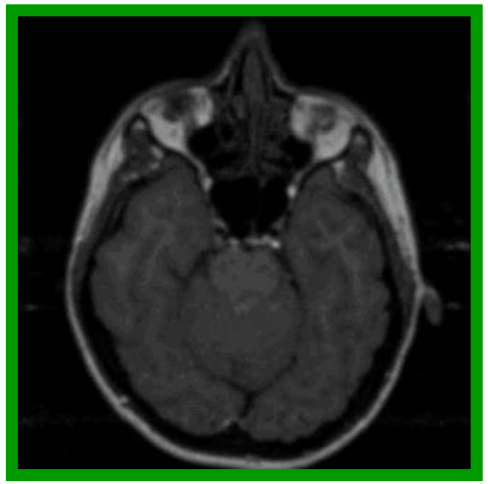
Numerical Methods - Ingegneria Elettronica/Civile - Civil Engineering

Matlab interface is user-friendly

We can understand Mathematics

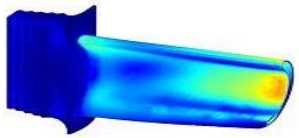


We can simulate real problems

A lot of Toolboxes for many applications.

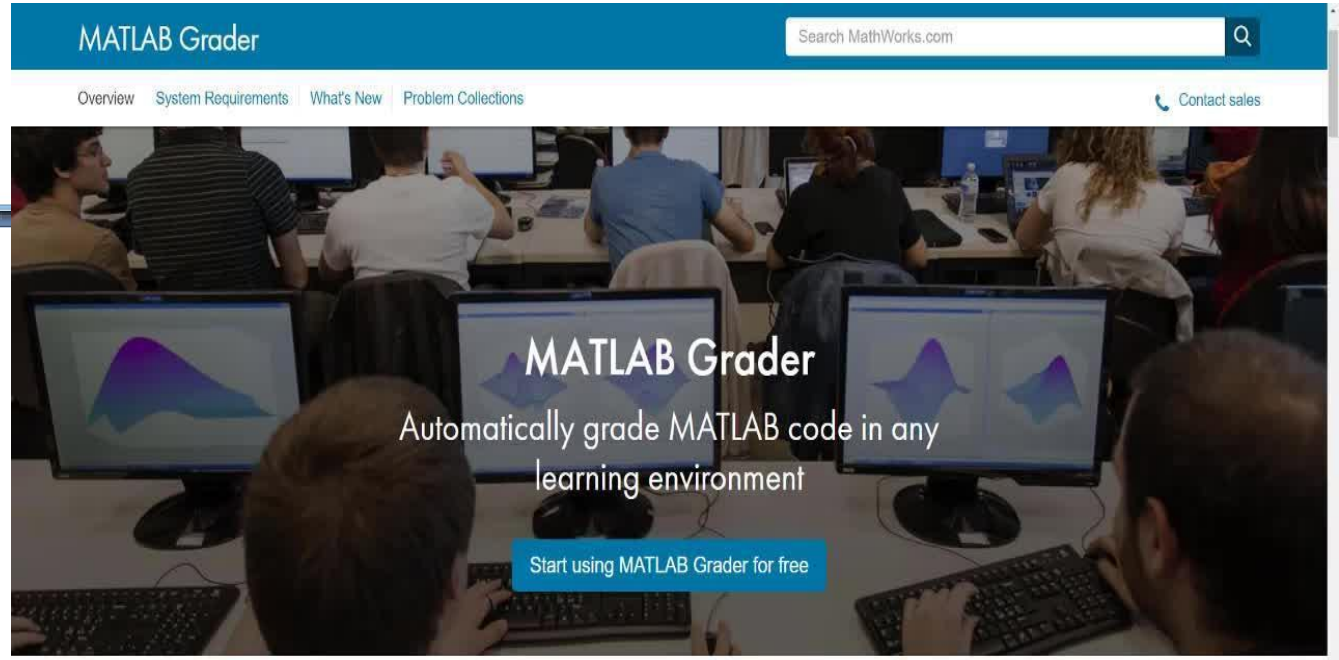
Campus Licence

Stuctural Analysis using
Finite Element Method
in MATLAB



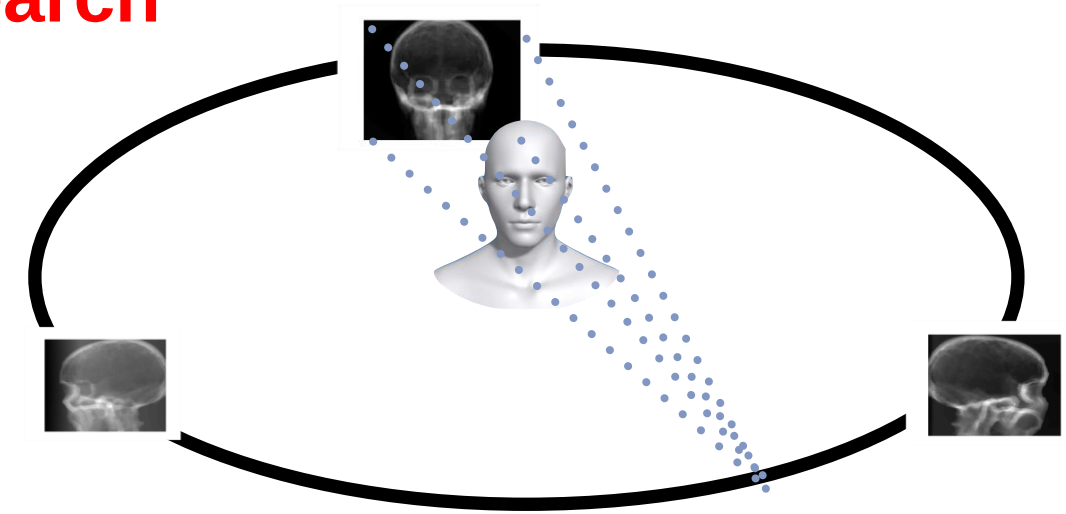
Partial Differential Equation Toolbox

Numerical Methods - Ingegneria Elettronica/Civile - Civil Engineering



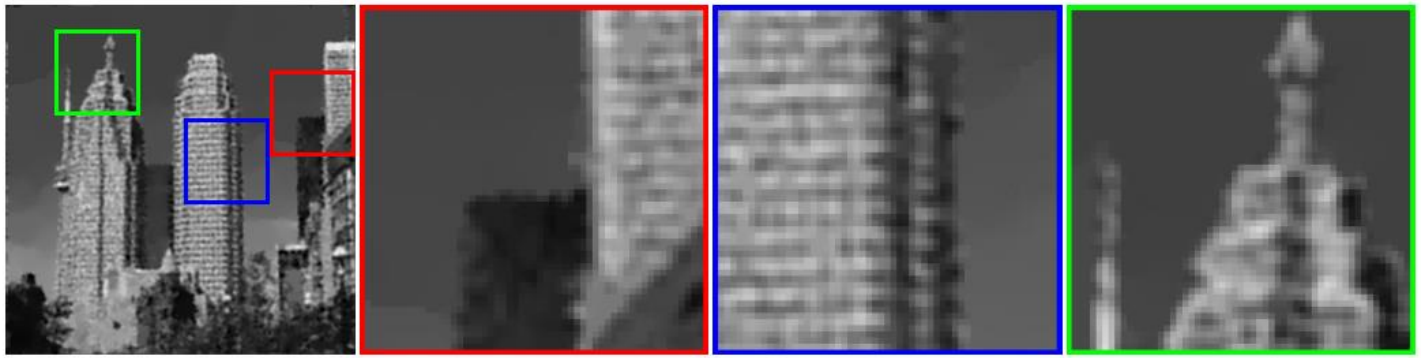
For PhD Students - Post Docs - Research

- **3D Cone Beam Computed Tomography**



- **Industrial Applications**

- **Research**



Teaching Numerical Methods with MATLAB

MATLAB is useful tool for teaching numerical methods because it allows for robust data analysis, **data visualization** and exploration, **modeling**, and **working with real data sets.**

If the use of MATLAB is scaffolded in a course or curriculum, it is a tool that can help students develop **computational skills** and **build self-efficacy**. When combined with collaborative learning techniques and effective assessments, MATLAB can be an effective and powerful tool for **teaching scientific computing**.

Thanks for your attention !