Scientific Program

09:15 Welcome & Coffee

09:45 Philippe Cresta (Airbus Group Innovations) :
Industrial applications of NURBS : case of helicopter blade design.

10:30 Thomas Elguedj (LaMCoS, INSA de Lyon) :
Isogeometric Analysis suitable trivariate models from cuboid decomposition quadrangulation

11:15 Gregory Legrain (GeM, Centrales Nantes) :
High-order Finite Element method for image-based and structural analysis
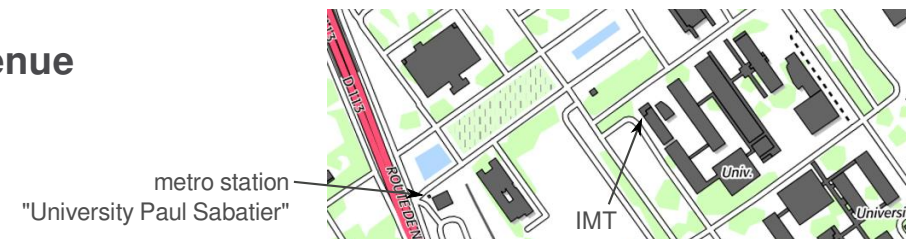
12:00 Lunch

14:00 Dominik Schilinger (University of Minnesota, USA) :
Seamless Geometry-through-Analysis Paradigms in Computational Mechanics

14:45 Robin Bouclier (IMT, INSA de Toulouse) :
Non-intrusive Coupling for the local enrichment of NURBS Patches

15:30 Discussions and Prospects

Physcale Workshop

NURBS and **High Order Finite Elements** in
Multiscale Computational Structural Mechanics :

How to overcome mesh constraints?

Toulouse, France, January 7th, 2016

Scope

The objective of this workshop is to gather academic and industrial members with interest in the field of high-order finite element and isogeometric analyses for mechanics of materials and structures. These promising numerical approaches still have a number of scientific challenges, including the adaptation and refinement of the mesh. The presentations will review newly developed methods to address this issue.

Registration

There are no fees, but the registration is required to get access to the lunch and coffee breaks. To register, please send an email to Robin Bouclier (bouclier@insa-toulouse.fr) before december 11th, 2015.

Venue

metro station "University Paul Sabatier"

IMT

The workshop will be held at the "Institut de Mathématiques de Toulouse" (IMT, building 1R3) at University of Toulouse 3. From city center, take Metro Line B up to "Université Paul Sabatier" station.

Organising committee

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