

Prof. Fabio Nobile Mathematics Institute of Computational Science and Engineering - MATHICSE

SEMINAR OF NUMERICAL ANALYSIS

WEDNESDAY 12 FEBRUARY 2014 - ROOM MA A1 10 - 16h15

Prof. Antonio FALCO (Universidad CEU Cardenal Herrera, Valencia / Spain) will present a seminar entitled:

"Geometric structures and tensor based algorithms"

Abstract:

Tensor formats based on subspaces are widely used in scientific computation.

Their constructions are usually based on a hierarchy of tensor product subspaces spanned by orthonormal bases, because in most cases one needs representations which are fitted to the special structure of the mathematical object under consideration. In this talk we introduce a general class of tensor formats based in subspaces and its geometric properties. We explain using these geometric structures the Proper Generalized Decomposition and the Dirac-Frenkel variational principle.

Lausanne, 17 January 2013/FN/cr

TI MATURES : Living to the control of the control o