14th World Congress on Computational Mechanics (WCCM XIV)
8th European Congress on Computational Methods in Applied Science and Engineering (ECCOMAS 2020)
July 19–24, 2019, Paris, France

MODELING AND NUMERICAL APPROXIMATION OF COMPLEX FLOWS
TRACK NUMBER 700

S. DEL PINO*, Ph. HOCH† AND E. LABOURASSE‡

CEA, DAM, DIF
F-91297, Arpajon, France
* stephane.delpino@cea.fr
† philippe.hoch@cea.fr
‡ emmanuel.labourasse@cea.fr

Key words: Modeling, Numerical Analysis, Computational Mechanics, Fluid Dynamics

ABSTRACT

This mini-symposium will focus on recent advances in the simulation of complex flows.

It aims at bringing together modelists and numerical analysists from universities and industrial laboratories to exchange on recent advances with regards to complex flows, including fluid structure interaction, thermal conductivity, surface forces, multi-constituent flows,...

Presentations will discuss mathematical modeling aspects as well as numerical methods and their analysis. The covered field will include linear and non-linear systems of Partial Differential Equations, model coupling and numerical methods including Galerkin methods as well as Finite Volumes schemes.

A special interest will be paid to problems arising from industrial applications.