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Gabriel is a senior researcher at the European Center for Research and Training in Scientific Calculus (CERFACS) in Toulouse France. As a member of the Algo Coop Group he is currently involved in the technology watch mission , preparing CERFACS's and its partners codes for the exascale era. The objective is to maintain these state of the art tool at the spearhead of High Performance Computing and benefitting whole communities. In addition of the code modernization aspects, he is involved with the support and training in HPC for the open Science code AVBP community. A member of the PRACE support group and is involved with various EU projects (EXCELLERAT, COEC, RAISE, EPEE C, SCALABLE) and article review groups in Europe.

The simulation of the energy transition and energy of simulation

With the timely focus on energy transition simulation is poised as the perfect tool to analyze alternatives to current energy production using hydrocarbons.

This presentation will focus on center of excellence's and European projects examples of ongoing efforts towards understanding combustion alternatives but also how to minimize energy consumption for HPC.