

Jerôme Bonelle (EDF R&D) - Polyhedral discretization in an industrial CFD code : case of CDO schemes in code_saturne

mardi 20 septembre 2022 16:00 (45 minutes)

“Compatible Discrete Operator”(CDO) schemes have been developed for a decade and integrated in code_saturne, the open-source and general-purpose CFD code of EDF.

The main goal of CDO schemes is to bring more robustness on distorted and/or polytopal meshes while preserving the efficiency requested by an industrial usage.

After having introduced the main features of CDO schemes, some V&V test cases will be presented along with two kinds of industrial applications : groundwater flows and solidification processes.