

## A GENERIC APP GUI FOR OpenFOAM® AND VARIANTS

<sup>1</sup>Sebastian Geller, <sup>2</sup>Jacques Papper

<sup>1</sup>ICON Technology & Process Consulting GmbH, Germany

<sup>2</sup>ICON Technology & Process Consulting SAS, France

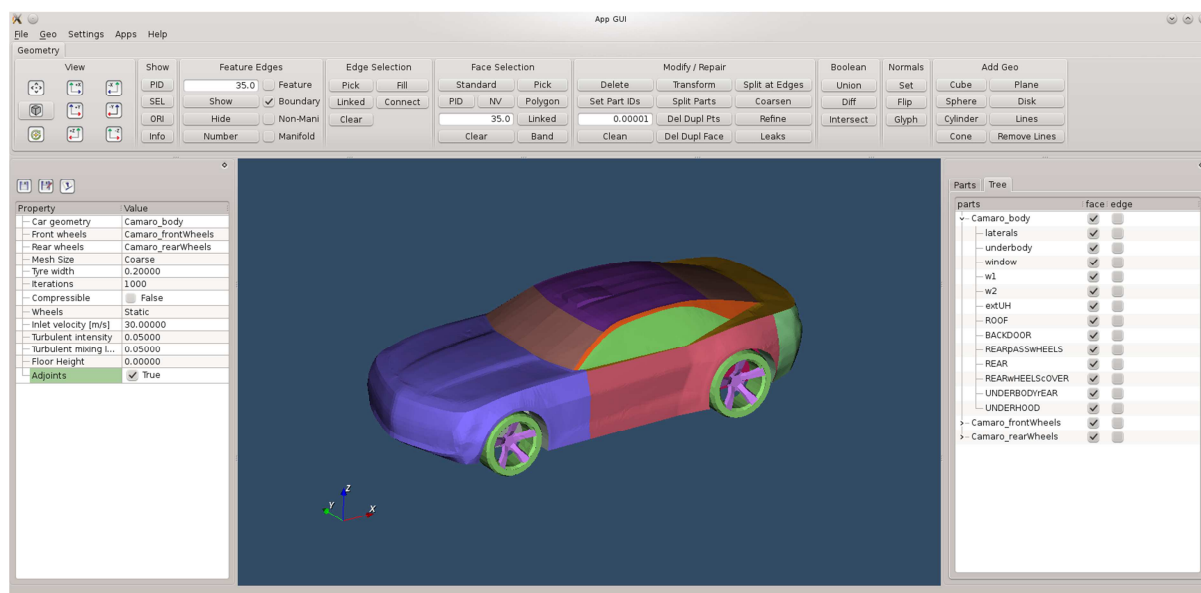
{s.geller,j.papper}@iconcf.com

Keywords: OpenFOAM /GUI/Apps /Automated Processes

### Abstract:

Today's graphical user interface (GUI) tools to setup Computational Fluid Dynamics (CFD) processes are designed to match all possible options of the provided solvers. For a generic App GUI the goal is to keep the huge number of possible settings hidden and provide the user an interface for his specific application with a limited number of settings necessary to setup a case. The specific case created apps offer different types to set input parameters necessary to run the case. The app creates an automated process from setup via meshing, running the solver integrated with post processing, which delivers the different result formats. For the complex setup of an OpenFOAM process this tool is a nice alternative for the daily setup of cases.

In the following example a specific wind tunnel application integrated into a geometry modification tool is shown.



OPENFOAM® is a registered trade mark of OpenCFD Limited, producer and distributor of the OpenFOAM software.