Parametrization of the centrifugal fan segment

Authors: Gášpár R.

Affiliation: University of West Bohemia, Plzeň, Czech Republic

Keywords: Software, parametric model, fan

Summary:

This post deals with the PARAMETRIC fan software. Nowadays the design process of the any turbomachine takes a long time. Especially in case of the optimization problems which are provided by CFD. For CFD processes there is necessary to design a geometry, use a CAD software to create a model, create a mesh, set boundary conditions, calculation itself and evaluation of the calculation results. This software is able to create complex geometry of the impeller segment according to design process rules. It's able to affects almost all parameters of the fan's impeller. The software is also able to parameterize volumes and parts of the segments which are necessary for CFD calculation. This post describes used programming languages, using of the software and its

options and limitations.