

Table 1. List of image reconstruction tools and CFD software for iCFD

Tools	Applications	Source
<i>Image Reconstruction Software</i>		
Image J	Graphics software that defines point and line data; primarily useful for two-dimensional model construction. Reads TIFF, PNG, GIF, JPEG, BMP file formats.	Open(Rasband, 2011)
ITK-SNAP	Software application used to reconstruct medical images into computational maps.	Open(Yushkevich et al., 2006)
VTK	Software library for visualization and reconstruction of medical images.	Open(Schroeder et al., 2006)
Mimics	Medical image reconstruction software; 3D prototyping of complex biological shapes.	Materialise, Corp. Belgium (Materialise Inc, 2011)
Analyze	Biomedical imaging software for reconstruction of medical images.	AnalyzeDirect, Inc.(AnalyzeDirect, 2010)
<i>Mesh generation software</i>		
ICEM CFD	A semi-automated meshing module which provides rapid generation of multi-block structured or unstructured volume meshes	ANSYS, Inc.(ANSYS, 2011)
Gambit	Geometry creation and mesh generation with structured and unstructured volumes.	Fluent, Inc.(Gambit, 2006)
<i>Rigorous CFD Simulation Software</i>		
Elmer	Finite element software for the solution of multi-physical problems.	Open (Elmer, 2011)
FOAM CFD	Finite element software with fluid-structure interaction modules.	Open (OpenFOAM, 2011)
STAR CD	Flow, thermal, and stress simulation software for performing powerful multi-physics simulations.	CD-adapco (CD-adapco, 2010)
COMSOL	Multi-physics simulation and finite element software; fluid-structure interaction capability; also solves thermal and electromagnetic problems.	COMSOL, Inc. (COMSOL, 2011)
ADINA	Finite element analysis software for structural, thermal, fluid-structure interaction analysis; robust for 3d simulations of complex geometry.	ADINA R&D, Inc. (ADINA, 2010)
ANSYS FLUENT	Finite volume and flow modeling software; fluid-structure interaction capability.	ANSYS, Inc. (ANSYS, 2011)