**1. Introduction**

The main program is called from the Matlab prompt by the line

**SIMP\_3D\_GNTO (**DL,DW,DH,nelx,nely,nelz,volfrac,rmin**)**

where DL is length of the design domain

DW is weight of the design domain

DH is height of the design domain

nelx is number of elements in x direction

nely is number of elements in y direction

nelz is number of elements in z direction

volfrac is volume fraction

rmin is the filter radius

**2. Example**

This example is the slender beam. You can run the main.m file directly, or paste the following line code into the MATLAB command window to call the SIMP\_3D\_GNTO function:

SIMP\_3D\_GNTO(80,4,20,80,4,20,0.2,2);

Finally, all the results for the slender beam are saved in the 'GNTO results' Folder. Please send your suggestions and comments to zuowenjie@jlu.edu.cn