

### **Instructions to use the code for profiles validation:**

1. Run the code for the new FDM (follow the given instructions to run the code for the new FDM)
2. Copy the folder: '**...\Code for profile validation**' to '**...\MATLAB 7\work**'.
3. Rename the files in '**...\PROFILE VALIDATION\PROFILE PREDICTION**' if necessary.
4. Save the files (.txt) of the actual profiles to be compared to in the '**...\PROFILE VALIDATION\PROFILE ACTUAL**'. The files of the actual profiles contain the 3D coordinates of the actual profiles.
5. Rename the files for the actual profiles (in the '**...\PROFILE VALIDATION\PROFILE ACTUAL**') to match the name of the files in the '**...\PROFILE VALIDATION\PROFILE PREDICTION**'.
6. Open and run **profile\_validation\_code\_FDM\_phase\_1.m**
7. The result of the comparison is saved in the '**...\PROFILE VALIDATION**'.

### **NOTE:**

The steps above are required to validate profile prediction for a new participant's data. To use data from the existing participants of the thesis, simply copy the folder '**...Accuracy review of the new FDM\Code for profile validation**', '**...Accuracy review of the new FDM\INITIAL INPUT**' and '**...Accuracy review of the new FDM\PROFILE VALIDATION**' to '**...\MATLAB 7\work**'.