

## Steps to run the correspondence code

### 1. Compile the code

### 2. Prepare folders of the matlab

- a) Add the path where “crestSide.m”, “downSide.m”, and “upSide.m” files stored to matlab search path; or copy them to matlab default searching path.
- b) Open each of these .m file, set the “*matlabScriptFolder*” to the path where “shapeStat\_crestSide”, “shapeStat\_downSide” and “shapeStat\_upSide” stored.  
e.g., `matlabScriptFolder='/work/ltu/Correspondence_Oct7/';`

### 3. Prepare the temp datas and results folders.

- a) Create 3 folder in the current folder: “crestSide”, “downSide” and “upSide”. These will be the working folder of each region.
- b) Create a “results” folder, which will storing the log file of each region.

### 4. Prepare input s-reps

- a) Copy s-reps to “/work/ltu/Correspondence\_Oct7/s-reps/” folder;
- b) List these s-rep filenames in file “/work/ltu/Correspondence\_Oct7/input\_sreps.txt”

### 5. Run

- a) For up region:

```
./corrOpt /work/ltu/Correspondence_Oct7/upSide /work/ltu/Correspondence_Oct7/input_sreps.txt 0 /work/ltu/Correspondence_Oct7/results/up/up.log
```

- b) For down region:

```
./corrOpt /work/ltu/Correspondence_Oct7/downSide /work/ltu/Correspondence_Oct7/input_sreps.txt 1 /work/ltu/Correspondence_Oct7/results/down/down.log
```

- c) For crest region:

```
./corrOpt /work/ltu/Correspondence_Oct7/crestSide /work/ltu/Correspondence_Oct7/input_sreps.txt 2 /work/ltu/Correspondence_Oct7/results/crest/crest.log
```