Thursday, 23 Nov 2017, 11AM, Chris’s Room

Present: Chris, Gib, Hashem, Jagir

**To do lists:**

- Based on the comments, Apply final updates of the Optimisation Report, deadline is tomorrow (Friday, Noon)

- Removing the small issues for the registration of the 4x4 meshes (Saturday).

- Trying to hpc2 for running. (Friday)

- We need three RMS errors for inner and outer nodes as well as length index (Wednesday).

Updating the optimization report with: RMS errors + new data set+ visualisation issues+ comparing B.Cs (Wednesday).

- Implementing a simple example of non-rigid registration with optimisation (Some ideas not applied yet).

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**Issues and topics discussed in meeting:**

Visualisation looks fine in the first glance, however, there are big differences on the nodes of the inner layer

* Which might be because of the number of growth variables the model has
* Maybe this is not the best answer
* These RMS errors might not be true for what have been visualised
* It is better to compare the results with the version on FSI branch installed on HPC2

Proper weights might be added to the objective function terms. All the components can have balanced share.

Non-rigid algorithms are developed a lot, we can use them in MATLAB or Python. Maybe we can find a new way to describe area and solve our problem by these algorithms.

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**Next Week’s plan:**

- Try to run the same rates and the same code on HPC2 and visualise the results + carry on finding rates for the rest of layers if it is true.

- We need to be sceptical using codes from different repositories and different versions.

- Power point presentation for the conference being created by not later than Monday

- Applying available non-rigid transformations in MATLAB on the normalised paints with all the regions.

Meeting closed 11.51