

Group Meeting #3

Date: Wednesday 12-6-2019. (5:30 to 6:30 PM)

Location: Chair of Computational Mechanics (Room: N2620)

In attendance: Ani Khaloian, Michael Richter (Project supervisors)

Ammar Khallouf, Gavallas Panagiotis, Yasuyuki Shimizu (Group members)

1. Feedback on 1st Assessment presentation:

- The supervisors have provided the group members their feedback on last software lab presentation. The feedback on group level included reducing the text content of the presentation slides and relying more on images, charts and interactive animations for illustration of concepts.
- The supervisors also stressed the importance of time management and abstraction for the next assessment presentation in July.
- The supervisors asked the group members about their self-evaluation for first presentation and provided individual feedback for each member to be considered in the next presentation.

2. Provision of cloud access to ABAQUS in the BGCE Room:

- The supervisors have secured two PC devices in compute lab room, in order to have access to the full version of ABAQUS for the development of the user defined material subroutine UMAT.
- Ms. Khaloian have resolved the issue of connecting to the host computer by reading in the correct IP address of the reserved PC's, she also advised to change the login credential after first successful login in Remote desktop connection.

3. Review of Current Progress and Future Activities:

- Mr. Khallouf have discussed his progress by reviewing the architecture of the provided UMAT by supervisors for 3D orthotropic material, and implementing it in ABAQUS, then comparing the results to the standard built in engineering constants definition in ABAQUS. He also modified the provided UMAT such that it also works for transversely isotropic material with five independent constants.
- The group members have agreed to start with the development of the maximum stress/maximum strain criteria for its simplicity.

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-The supervisors answered the questions of group members on the implementation of material degradation for the failure criteria and provided some technical suggestions.

-The group members stated that for the next meeting, they will provide more information on how the tasks are being distributed for better group management.

4. Next Meeting:

-The next meeting with the supervisors will be held on Wednesday, July 3rd at 17:30 (Room N2620). Instead of July 10th based on the request of Mr.Richter.