CITS5206 UniCoders (Group 5206_3)

Minutes of Meeting 3 held on August 06, 2020 (Week 2)

Present: Dr Ghulam Mubashar, Manpreet Kaur, Zhuojun Yang,
Hao Li, Yit Tsin Chooi, Kang Liu
Apologies:
Absent:
Meeting Started: 3:00pm

ACTION

1.1 Project Requirements and Details discussed with Mubashar

  - 3D Image of an object means :
    Two 2D images from two different angles

  - Image should be taken with Stereo Vision Camera

  - Samples of 3D Stereo Vision Images can be found online

  - 3D Images of deformed objects can be generated & found online

  - Digital Image Correlation (DIC) is used as the measurement
    of object deformation

  - 3D DIC calculation requires running 2D DIC algorithm twice
    before we can generate 3D DIC

  - All deformation must be continous & subpixel level

  - Image resolution can start with 300 x 300 pixels

  - Mubashar mentioned that the actual coding should not
    require too much time, 3 or 4 weeks should be enough

  - **However, the science behind DIC will most likely require one
    week for us to do research to attain enough understanding.**   Everyone

1.2 $100 test to understand Project Priority :

  - Mubashar said that this project is too hard to split into
    modules & features

  - This is due to the nature of the project having only one feature
    which is measuring deformation with Digital Image Correlation

1.3 Splitting project into small modules :

  - 3-dimensional deformation measurement in Python

  - Generating Samples for Testing

1.4 Other issues mentioned

  - Research Papers & Articles will be sent to us by Mubashar,
    where all of us much read and understand thoroughly.   Everyone

  - Mubashar suggested we should start with testing his codes for   Everyone
    2-D deformation measurement in Python.

1.5 Date of Next Meeting

  - Monday 03 August, 4:00pm - 5:30pm, REID library

    Meeting Closed: 3:30pm