



## Assessed Coursework

Course Name	Web Science (M)			
Coursework Number	Geo Localisation			
Deadline	Time:	4:30PM	Date:	18 March 2022
% Contribution to final course mark	20%			
Solo or Group ✓	Solo	x	Group	
Anticipated Hours	20			
Submission Instructions	Submission through Moodle Report and Python codes			
Please Note: This Coursework cannot be Re-Assessed				

### Code of Assessment Rules for Coursework Submission

Deadlines for the submission of coursework which is to be formally assessed will be published in course documentation, and work which is submitted later than the deadline will be subject to penalty as set out below.

The primary grade and secondary band awarded for coursework which is submitted after the published deadline will be calculated as follows:

- (i) in respect of work submitted not more than five working days after the deadline
  - a. the work will be assessed in the usual way;
  - b. the primary grade and secondary band so determined will then be reduced by two secondary bands for each working day (or part of a working day) the work was submitted late.
- (ii) work submitted more than five working days after the deadline will be awarded Grade H.

Penalties for late submission of coursework will not be imposed if good cause is established for the late submission. You should submit documents supporting good cause via MyCampus.

**Penalty for non-adherence to Submission Instructions is 2 bands**

You must complete an "Own Work" form via <https://studentltc.dcs.gla.ac.uk/> for all coursework

# Individual Assessment: Geo-Localisation

Coursework is due on Friday, March 18, 2022, 430 PM

CW is marked out of 100 marks & Weighted 20% to the final marks

All submissions are through Moodle

1. Assume that you are hired by the Transport for London (TfL). TfL manages the London's buses, London Underground, Docklands Light Railway, London Overground and London Trams. Your first task is to create a transport alert system exploiting Twitter data. It is assumed that there are enough social media data discussing transport related issues. Given this context, answer the following questions.

Around 2000–5000 tweets from London/UK is in the Data directory on Teams. It is in json format.

- (i) A data set will be given to you (In the Data folder teams). Develop software to organise tweets into grids of 1km x 1km. Draw charts or figures to analyse the distribution of data.  
The coordinate system we used is  
London = [-0.563, 51.261318, 0.28036, 51.686031]

[40]

- (ii) You will be given a set of high-quality tweets and low-quality tweets. Develop newsworthy scoring method based on this dataset.

[30]

- (iii) Use the above newsworthy scoring techniques to analyse the geo-tagged data set given above and discuss the results

[30]