

# Assignment description

- You need to develop an App for indoor localization using RSS signals from WiFi.
- NO motion sensors (IMU) need to be used for this assignment.
- You will need to gather training data from the 5<sup>th</sup> floor in EWI, according to the map provided in FF. Then, you will need to evaluate the accuracy of your method and provide a confusion matrix for at least half of the cells. Choose some office cells and some cells in the aisle.
- People are working in the offices so please be quite while you are in our floor and, in particular, when you enter a room to gather data.

## Guidelines for Report: Bayesian (max 1 page, except for confusion matrix)

- Name file with the same instructions as for the first assignment.
- Top part same as for report 1
  - group name, student names phone, android version, code used from somewhere else.
- Data collection (1 paragraph)
  - Sampling rate, sampling time per cell, etc
- Data Processing (1 paragraph)
  - Filters used for APs and RSS (if any)
- Radio Map (1 paragraph, \*\* 2 figures)
  - pmf examples for 2 cells that are similar and 2 cells that are different.
- Evaluation
  - Snapshot of App
  - Confusion Matrix (for at least half of the cells, you must test the cells in the 5th floor of our building, don't wait until the last minute to do this)
- Discussion (bulletpoints)
  - What is hard? What is novel? i.e. new methods, etc