

HW #5

- Visit the following website and download the code:

- <http://webdiis.unizar.es/~neira/software/slam/slamsim.htm>
- <http://webdiis.unizar.es/~neira/software/slam/SLAM.zip>

- Do the followings:

1. Load `slam.m`, find where data association is done and try the nearest neighbour (**NN**) algorithm.
2. Complete **SINGLES** and try it:

You have `observations.m` observations, and `prediction.n` predicted features.

For every observation i , check whether it has only one neighbour feature, and whether that feature j has only that one neighbour observation i . If so, $H(i) = j$.

You will need to check the `compatibility.ic` matrix for this:

`compatibility.ic(i,j) = 1` if observation i is a neighbour of feature j .

3. Include people (`configuration.people = 1`) and try **SINGLES**
4. Try Joint Compatibility Branch and Bound (**JCBB**)
 - Compare the results of NN, SINGLES, JCBB and discuss them.
 - Please submit your matlab code (`singles.m`) also.
 - Due date: Nov. 27th, 1pm (upload to KLMS).