

SGN-41006 Signal Interpretation

Bonus Exercise: 25.2.2016 - 4.3.2016

This bonus exercise will study how regression tasks can be solved using scikit-learn. The exercise is based on an earlier competition of head pose estimation; see <https://inclass.kaggle.com/c/tut-head-pose-estimation-challenge>. The data can be downloaded from <https://sites.google.com/site/tutheadpose/>. The exercise will give you 5 points if fully solved by the deadline. These are bonus points, which are added on top of your score (so some students may exceed 100%).

1. **python** Watch the video at <https://youtu.be/T-36J1FXh0o>. Solve the two tasks worth 2+2 exercise points. Prepare a brief PDF report including possible figures and description of what you did (and what happened). Send the report to email scmatlab@cs.tut.fi (apologies for the misleading mailbox name) on 4.3.2016 at the latest.
2. **python** One more point for a solution that beats the winner ($MAE < 4.11$ for public and $MAE < 4.38$ for private).

Remember:

- Set the email title to "SGN-41006 Video Exercise"
- Include your name and student number in the first page of the PDF file.