

151-0566-00 **Recursive Estimation** (Spring 2021)

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**Programming Exercise #1-2**

Topic: Filtering

Issued: May 5, 2021

Due: **June 2, 2021**

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**Deliverables**

*Note: Your submission has to follow these instructions exactly. Submissions that do not conform will have points deducted.*

Up to three students are allowed to work together on the programming exercise. They will all receive the same grade.

As a group, you must read and understand the ETH plagiarism policy here:

<http://www.plagiarism.ethz.ch/> – each submitted work will be tested for plagiarism. You must fill out the *Declaration of Originality*, available here:

<https://tinyurl.com/ETHDeclarationOriginality>.

Hand in a single zip-file, where the filename contains the names of all team-members according to this template (note that there are no spaces in the filename):

`RE21_Firstname1Surname1_Firstname2Surname2_Firstname3Surname3.zip`.

The zip-file contains the `RE21_Firstname1Surname1_Firstname2Surname2_Firstname3Surname3` folder (with the correct names as in the zip filename), that you find among the material provided.

This folder contains two subfolders:

1. The subfolder `P1_EKF` contains only two files:
  - Your implementation of the EKF in the single file `Estimator.m`, which has the exact same function definition as in the provided template.
  - A scan of the *Declaration of Originality* (for the first problem), signed by all team-members.
2. The subfolder `P2_ParticleFilter` contains only two files:
  - Your implementation of the PF in the single file `Estimator.m`, which has the exact same function definition as in the provided template.
  - A scan of the *Declaration of Originality* (for the second problem), signed by all team-members.

Send your zip-file in a single email:

- Use this *exact* subject: `programming exercises submission`
- In the email body, include a list of all team-member names.
- Send the email to `recursiveestimation@ethz.ch`.

You will receive an automatic reply confirming receipt of the email. A human will not look at the email before the deadline expires, and you are ultimately responsible that we correctly receive your solution in time. **Late submissions will not be considered, nor will submissions where the attachment was forgotten.**