

Advanced Robotics -- Week 11 Workshop

Task 1: Learn Inverse Dynamics Model of the Baxter Robot

For this task we will use the sickit-learn package for Gaussian Processes and the provided dataset of Baxter robot to learn the inverse dynamics.

1. Download and extract the code and data. You will find the zip file under the workshop material
2. You can use the provided python code as template. You can add or remove methods. Following the template is not obligatory
3. Import data
4. Create k-folds for training the model
5. Evaluate the model following a k-fold cross validation approach
6. Compare various kernels such as: Linear, RBF, Polynomial.
7. Evaluate and report on their performance. Which one would you use and why?