ICPE 689 - SPTP: Recent Trends in Process Modeling and Control

Spring 2023

Homework 2

Name:

1. Please pick one system and elaborate how you would apply the hybrid modeling framework, which we learned in class, to this system in detail. More specifically, you may want to explain (1) why the hybrid modeling approach would be suitable for your system of interest, (2) which (uncertain) variables or parameters would be predicted by a deep neural network (DNN), and (3) how the DNN would be integrated with your first principle model.