Program instruction

1. Add path
2. Open and run testActorCritic.m script
3. During the script runtime, a plot of value and critic function will be viewed and updated in every trial. At the end of the code, a fast-forwarded animation will be shown.
4. Most of the parameters can be changed in loadParams.m

The description of the functions/scripts:

1. testActorCritic.m   : [script] run an actor critic controller for 1-DoF inverted pendulum
2. loadParams.m   : [script] declare parameters
3. critic.m   : [function] calculate the value function of a certain state
4. actor.m   : [function] calculate the action at a certain state
5. rbf.m   : [function] evaluates the radial basis functions of a certain state
6. plotrbf.m   : [function] plot the rbf with defined parameters
7. calcCost.m   : [function] calculate the immediate reward for a certain state
8. actSaturate.m   : [function] calculate the saturated value of control input