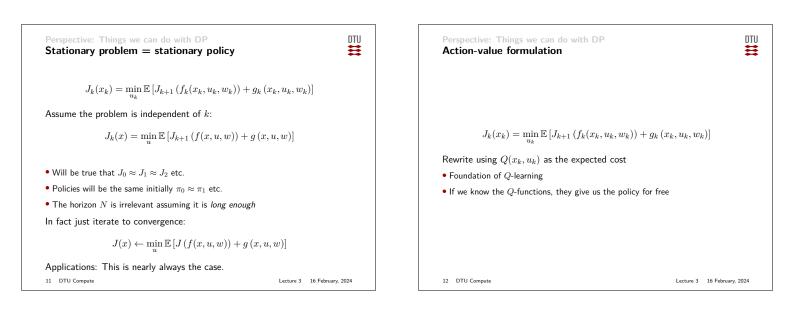
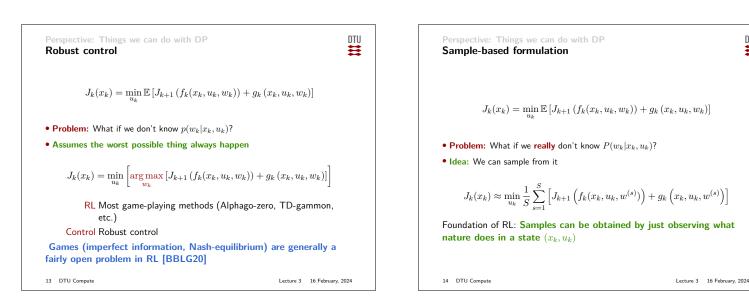
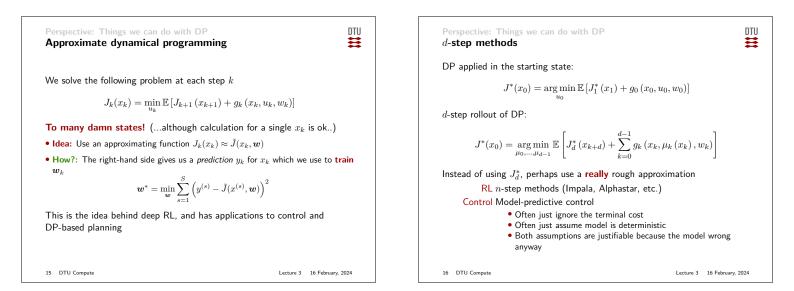


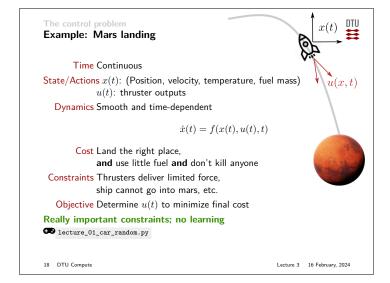
Ν	$J_0$	Win pct	Length	$ \mathcal{S} $
1	0.00	0.00	1.00	12.0
2	0.00	0.00	2.00	41.0
3	0.00	0.00	2.50	155.0
4	0.75	0.72	3.72	278.0
6	0.81	0.81	4.30	1098.0
8	0.82	0.82	4.33	3565.0
12	0.85	0.86	4.54	18956.0
16	0.85	0.84	4.51	37516.0
20	0.85	0.84	4.56	47811.0







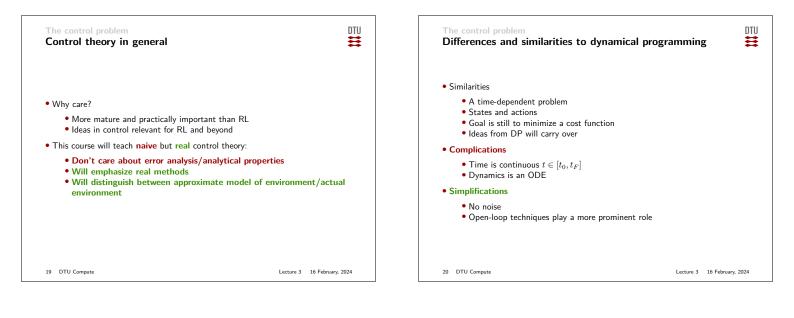


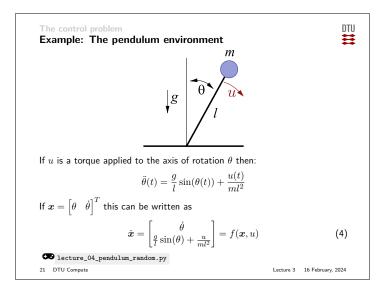


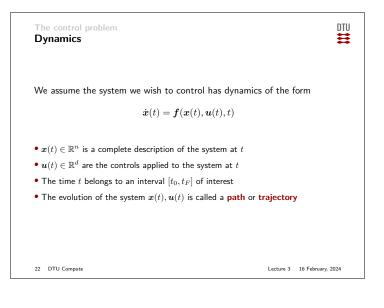
DTU

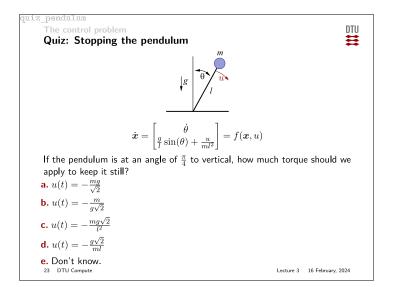
≡

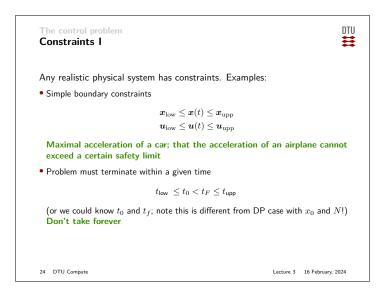
17 DTU Compute

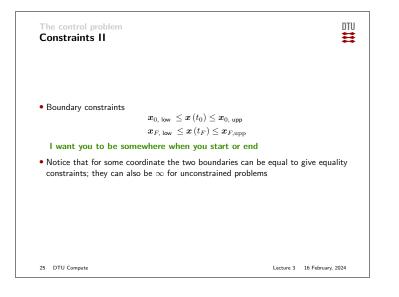


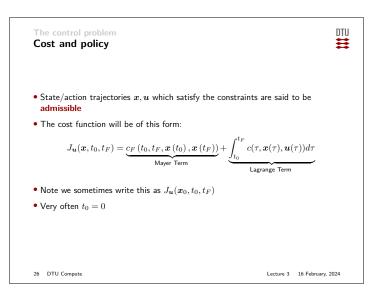


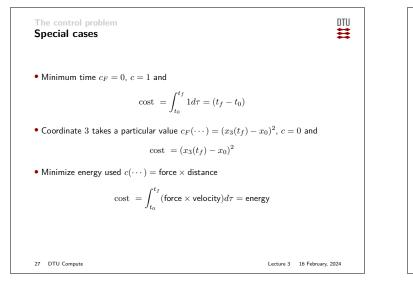


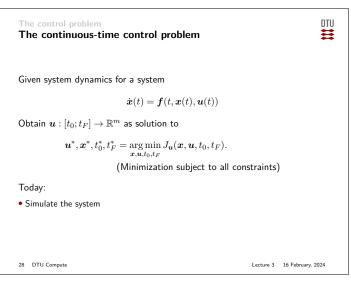


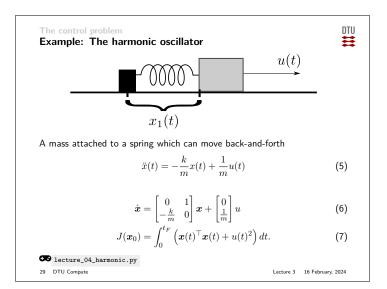












The control problem Simulation: Euler integration		DTU
Apply a Taylor expansion:		
$oldsymbol{x}(t+\delta) = oldsymbol{x}(t) + \dot{oldsymbol{x}}(t) \delta + rac{1}{2} \ddot{oldsymbol{x}}(t) \delta^2$	$+ O(\delta^3)$	
Define $\Delta = rac{t_F - t_0}{N}$ and introduce		
$t_1 = t_0 + \Delta$ $t_2 = t_0 + 2\Delta$ $t_k = t_0 + k\Delta$		
$t_N = t_0 + N \Delta = t_F \label{eq:tN}$ Then we can iteratively update:		
$oldsymbol{x}_{k+1} = oldsymbol{x}_k + \Delta oldsymbol{f}(oldsymbol{x}_k,oldsymbol{u}_k,t_k)$	)	
30 DTU Compute	Lecture 3	16 February, 2024

