

Program DISC Winter Course on Numerics and Control

Eindhoven University of Technology March 16-18, 2020

Monday, March 16, 2020

10.00	Welcome and Introduction
10.00 - 12.00	Introduction to port-Hamiltonian systems (pHs)
12.00 - 13.00	Lunch
13:00 - 15.00	Boundary control of PDEs in one space dimension
15.00 - 15.30	Break
15.30 - 17.30	Lab-1 in Matlab
18.30 - 20.30	Winter Course dinner

Tuesday, March 17, 2020

09.00 - 10.30	Boundary Control of PDEs in higher space dimension
10.30 - 11.00	Break
11.00 - 12.00	Partitioned Finite Element Method in higher space
	dimension
12:00 - 13.30	Lunch
13.30 - 15.00	Lab-2 in Python (1)
15.00 - 15.30	Break
15.30 - 16.30	Lab-2 in Python (2)

Wednesday, March 18, 2020

09.00 - 10.30	Discrete formulation of conservation laws
10.30 - 11.00	Break
11.00 - 13.00	Exterior calculus representation of pHs and geometric finite elements
13:00 - 14.00	Lunch
14.00 - 16.00	Discrete time pHs for simulation and control
16.00	Closure and farewell drinks