

4th Doctoral Workshop on Port-Hamiltonian Systems

11-13 October 2023



Time	Wednesday, 11/10/23	Thursday, 12/10/23	Friday, 13/10/23
09:00	Opening : Sören Hohmann, Felix Strehle (IRS, KIT) «Port-Hamiltonian Systems as a Tool for Future Energy Systems ! ?»(tentative)	Peter Betsch (IFM, KIT) «GENERIC and port-Hamiltonian formulation of coupled thermomechanical systems»(tentative)	Muhammad Zakwan (EPFL) «Towards dependable machine learning : A port Hamiltonian approach»(tentative)
10:00	Coffee break		
10:30	Najmeh Javanmardi (U Groningen) [15+5 min] «Contraction-based Tracking Control of Electromechanical Systems» Wasif Haider Syed (BTU Cottbus) [15+5 min] «Power Management System for Hybrid-Electric Aircraft » Dorothea Hinszen (TU Berlin) [15+5 min] «Discrete time scattering passive port-Hamiltonian systems» Antoine Bendimerad-Hohl (ISAE) [15+5 min] «Structure-preserving discretization of the Cahn-Hilliard equations recast as a port-Hamiltonian system»	Interactive session	Nelson Cisneros (FEMTO-ST) [25+5 min] «Model identification, control and fabrication of a HASEL actuator» Jonas Kirchhoff (TU Ilmenau) [25+5 min] «A behavioural approach to nonlinear port-Hamiltonian systems» Merlin Schmitz (U Wuppertal) [25+5 min] «A System Node Approach to Port-Hamiltonian Systems»
12:00	Lunch		
13:30	Marcus Popplow (ITZ History, KIT) «Competition or cooperation ? Technology as a factor of European integration in historical perspective »	Lab tour (IRS, KIT)	Closing
14:30	Interactive session		
15:30	Photo session + Coffee break	Coffee break	
16:00	Information on the doctoral college and mobility	Cristobal Ponce (FEMTO-ST) [25+5 min] «Port-Hamiltonian modeling of flexible multidimensional mechanical systems defined by linear elastic relations» Markus Lohmayer (FAU) [25+5 min] «Exergetic Port-Hamiltonian Systems for Multibody Dynamics»	
16:15	Mario Spirito (U Lyon) [15+5 min] «Singular Perturbation for Implicit port-Hamiltonian systems» Volker Mehrmann (TU Berlin) [40+5 min] «Robust representation of port-Hamiltonian systems»		
17:00			
17:20			
19:00			
19:30	Social Activity : Bowling	Workshop Dinner @ Kulturküche	