JÁRMŰIPARI KUTATÓKÖZPONT
RESEARCH CENTER OF VEHICLE INDUSTRY

NEW SZÉCHENYI PLAN

2nd Workshop on Design, Simulation, Optimization and Control of Green Vehicles

22-23 September, 2014

Széchenyi István University, Győr

	Bridge 1	Bridge 2
	22 September, 2014	
08:30-15:00	Registration	
	Chairman: Zoltán Horváth	
09:00-09:10	József Bokor *Opening*	
09:10-09:50	Rizzo Gianfranco *Energy Management of Hybrid and Hybridized Electric Vehicles*	
09:50-10:30	Dieter Bestle *Robust Design of Velocity-adaptive Control for an All-wheel Steering Car*	
10:30-10:50	Break	
	Chairman: Dieter Bestle	Chairman: Imre Czinege
10:50-11:10	Béla Lantos *Time optimal control of four-in-wheel-motors driven electric cars*	Tamás Haidegger *Kinematic Design of Traceable Trajectories for Caster Supported WMRs Having Two Active Wheels*
11:10-11:30	Balázs Németh *Analysis and Control of Nonlinear Actuator Dynamics Based on the Sum of Squares Programming Method*	Krisztián Kósi *Simulation Tests of an RFPT-Based MRAC Controller for an Electric Cart for Various Trajectory Tracking Approaches*
11:30-11:50	Tímea Fülep *Robust Control of In-Wheel Electric Vehicles*	Gergely Bári *Conceptulaization of hybrid-electric vehicle drivetrain control*
11:50-12:10	*József Tar K.* *Generalized Dynamic Model of DC Motors Driven WMRs for RFPT-Based Order Reduced Adaptive Control*	Balázs Trencséni *Enhancement of hybrid-electric driveline control using predictive algorithms*
12:10-13:10	Lunch break	
	Chairman: Zoltán Horváth	
13:10-13:50	Johannes Schlöder *Energy conservation in vehicle operation by solution of mixed integer optimal control problems*	
13:50-14:30	Luigi Glielmo *Robust Vehicle Stability Control via Set-Based Methods*	
14:30-14:50	Break	
	Chairman: Gianfranco Rizzo	Chairman: Johannes Schlöder
14:50-15:10	Zoltán Varga *The role of the transmission in electric driven vehicles*	Miklós Kuczmann *Electrical Machine Analysis by the Help of the Finite Element Method*
15:10-15:30	Imre Czinege *Mass Optimization of Gearboxes for BEVs*	Abdelhakim Lotfi *Multiphysics simulation of PMSMs*
15:30-15:50	Dávid Czeglédi *Development of an electric driven city car*	Péter Zsebők Fast 3D simulation of PMSMs
15:50-16:10	István Szénásy *Some actual questions at the development of up-to date PMSM motors*	Márton Kuslits *Simulation and optimization framework for PMSMs*
16:10-16:30	Break	
	Chairman: Luigi Glielmo	Chairman: Alexandros Soumelidis
16:30-16:50	Zoltán Szabó *All full-state robust qLPV controllers*	Péter Kőrös *Driver assistant algorithm for power loss reduction in light electric vehicles*
16:50-17:10	Csaba Gáspár *Some regularized versions of the method of fundamental solutions with applications*	Zoltán Szeli *Some possibilities for reducing energy consumption of electric-powered vehicles*
17:10-17:30	Tihamér Kocsis A. *Vehicle control with numerical methods*	Bettina Kollár *Development of an automated high performance electric motor test bench*
17:30-17:50	Zoltán Horváth Set *invariance of dynamical systems with applications*	Ádám Bakos *Designing system architecture and control of a small-scale electric vehicle*
18:30-21:00	Conference Dinner	

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