

Symposium on Electric Machines, Drives and Power Electronics

Prague, 9 – 11 September, 2014

Organised by: the **Institute of Thermomechanics AS CR, v.v.i.** (Academy of Sciences of the Czech Republic) and the **Institute for Drive Systems and Power Electronics** (Leibniz Universität Hannover)

9 September

from	to	program	
9:15	9:30	<i>opening of Symposium</i>	
9:30	10:00	O. Korolova	Prediction of efficiency-optimized electrically excited synchronous machines' operating range using a coupled numerical-analytical method
10:00	10:30	V. Valouch, M. Bejvl P. Šimek, J. Škramlík	Power Control of Converter Connected to Unbalanced Grid
10:30	11:00	<i>coffee break</i>	
11:00	11:30	J. Jürgens, A. Brune, B. Ponick	Innovative Salient-Pole Synchronous Machine for Use as a Wheel Hub Motor in an EV
11:30	12:00	J. Škramlík, P. Šimek, M. Bejvl, V. Valouch	Analytical Closed-Form Solution of Current Responses of Multilevel Converter Connected to Unbalanced Grid
12:00	14:00	<i>lunch, Restaurant Lapák</i>	
14:00	14:30	J.-N. Weber	Rotary Transformer for Brushless Excitation of Synchronous Machines
14:30	15:00	L. Schreier, J. Bendl, M. Chomát	IM with Six-Phase Combined Stator Winding - Analysis and Experimental Verification
15:00	15:30	<i>coffee break</i>	
15:30	16:00	L. Schreier, J. Bendl, M. Chomát	Mathematical Description of Combined Stator Winding of Induction Machines
16:00	16:30	J. Koupeny, A. Mertens	Offline and Online Parameter Estimation of Controlled Electric Drives

10 September

from	to	program	
9:30	10:00	S. Lücke	Sensor-less Speed Estimation of Induction Machines
10:00	10:30	J. Gruber, J. Šonský, J. Hlína	Analysis of thermal plasma radiation by Fourier transform, wavelet analysis and phase portraits
10:30	11:00	<i>coffee break</i>	
11:00	11:30	R. Karimi, A. Mertens	Multi-Phase Interleaved DC/DC Converters for Electric Vehicle Applications
11:30	12:00	L. Musálek	Rotational Induction Heating Device with External Rotor
12:00	14:00	<i>lunch, Restaurant Lapák</i>	
14:00	14:30	M. John, P.A. Mendoza-Araya, G. Venkataramanan	Small Signal Impedance Measurement in Droop Controlled AC Microgrids
14:30	15:00	F. Quattrone	Design of Permanent Magnet Synchronous Machines for Self-Sensing Control at Low and Zero Speed
15:00	15:10	<i>closing of Symposium</i>	
15:10	15:40	<i>coffee break</i>	
19:00		<i>dinner, Restaurant Troja</i>	

11 September

10.00	Visit of the Public Transport Museum (Patočkova 460/4, Praha 6 – Střešovice *)
11.00	Sightseeing circuit tour in a historic tram
12.15	Lunch at Restaurant Bruska

* Ládvi 9.24 Metro C - 9.31 Vltavská
Vltavská 9.34 Tram 25 -9.46 Vozovna Střešovice