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News

General

Mar 8, 2011

SLED Symposium 2011

Category: General

Posted by: sled_bekki

Welcome to the SLED Symposium 2011 website! Please note that the dates for digest submission have changed. Go to the "Home" and "Important Dates" pages for more information.

Sponsors



Program



Technical Program for SLED'2011

Thursday 1st September

14.00-16.00 Registration - delegates will receive their dinner tickets and a current programme of lectures.

*****Please note that speakers should upload their papers from 15.30-16.00. A technician will be on hand in the Kingston Theatre to assist*****

16.00-16.05 Welcome

16.05-16.45 Keynote

The Opportunity and the Frontier: Designing Electrical Machines for Self-Sensing and Power Conversion

Bob Lorenz, University of Wisconsin-Madison, USA

16.45-18.35 Session 1: PM machine drives with hf injection I

P22 Autonomous Position Estimation for PM Synchronous Motors

Roberto Leidhold

Technische Universität Darmstadt, Germany

P10. FPGA-based implementation of sensorless AC drive controllers for embedded Electrical Systems

I. Bahri, A. Maalouf, L. Idkhajine, E. Monmasson

SATIE-IUP GEII and Thales-AES, France

P11. Sensorless Direct Torque and Flux Controlled IPM Synchronous Machine Fed by Matrix Converter over a Wide Speed Range

D. Xiao and M. F. Rahman, Energy Systems Research Group

University of New South Wales, Australia

P21 Online Identification of Load Angle Compensation for Anisotropy based Sensorless Control

Peter Landsmann, Dirk Paulus and Ralph M. Kennel

Technical University of Munich, Germany

P29 Sensorless Estimation in PMSMs under Open-phase Fault

Alberto Gaeta, Giacomo Scelba, Alfio Consoli, Giuseppe Scarcella

University of Catania

Dinner to follow

Friday 2nd September

07.45-08.20 Arrival and Coffee

*****Please note that speakers should upload their papers from 07.45-08.20. A technician will be on hand in the Kingston Theatre to assist*****

08.20-10.15 Session 2: Saliency-based sensorless methods (not hf signal injection)

P02 Using switching transients to exploit sensorless control for electric machines

Peter Nussbaumer and Thomas M. Wolbank

Department of Energy Systems and Electrical Drives

Vienna University of Technology, Austria

P03 Sensorless Field-oriented Control for Permanent Magnet Synchronous Machines with an Arbitrary Injection Scheme and Direct Angle Calculation

Dirk Paulus, Peter Landsmann, Ralph Kennel

Institute of Electrical Drive Systems and Power Electronics, Technical University of Munich, Munich, Germany

P12 A review of Sensorless Control in Induction Machines using HF Injection, Test Vectors and PWM harmonics

R. Raute, C. Caruana, C. Spiteri Staines, J. Cilia, M. Sumner and G. M. Asher

University of Malta & University of Nottingham

P26 Modelling the Impact of the Stator Currents on Inductance-Based Sensorless Control of Brushless DC-Machines

Fabien GABRIEL, Frederik De Belie and Peter Sergeant, and Xavier Neyt

RMA - Royal Military Academy, Brussels, Belgium

Ghent University, Belgium

P31 Sensorless Control for IPMSM using PWM Excitation: Analytical Developments, Implementation Issues

Silverio Bolognani, Sandro Calligaro, Roberto Petrella, Michele Sterpellone

University of Padova & University of Udine, Italy

10.00-10.30 Coffee

*****Please note that speakers should upload their papers from 10.00-10.30. A technician will be on hand in the Kingston Theatre to assist*****

10.35-12.30 Session 3: Session 1: PM machine drives with hf injection II

P17. Three Years of Industrial Experience with Sensorless IPMSM Drive based on High Frequency Injection Method

Sadayuki Sato, Hideaki Iura, Kozo Ide, and Seung-Ki Sul

Yaskawa Europe GmbH, Yaskawa Electric Corporation, Japan, Seoul National University, Korea

P08 Auto Commissioning of the Position Phase Shift Compensation in Sensorless Permanent Magnet Motor Drives

Mark Sumner and Kamel Saleh

University of Nottingham. UK

P13 Model Based Design for System-on-Chip Sensorless Control of Synchronous Machine

Zhixun Ma, Tim Friederich, Jianbo Gao, Ralph Kennel

Technische Universitaet Muenchen, Germany & MACCON GmbH, Germany

P25 On the use of high frequency inductance vs. High frequency resistance for sensorless control of AC machines

Pablo García, David Reigosa, Fernando Briz, Christian Blanco and Juan M. Guerrero
University of Oviedo, Spain

P32 Outer-rotor ringed-pole SPM starter-alternator suited for sensorless drives
Mattia Morandini, Silverio Bolognani and Adriano Faggion
Department of Electrical Engineering, University of Padova, Italy

12.30-13.30 Lunch

13.30-15.00 Session 4 Model-based sensorless methods I

P01 An Experimental Assessment of a Stator Current MRAS Based on Neural Networks for Sensorless Control of Induction Machines

Shady M. Gadoue, Damian Giaouris and J.W. Finch
Newcastle University, Newcastle, UK

P05 Field-oriented control of a speed-sensorless induction motor for the complete speed range using a nonlinear observer

Jean-Francois Stumper, Ralph Kennel
Institute of Electrical Drive Systems and Power Electronics, Technical University of Munich, Munich, Germany

P09 Sensorless model predictive torque control for induction machine by using the sliding mode full order observer

Fengxiang Wang, S. Alireza Davari, Davood A. Khaburi, Ralph Kennel
Technical University of Munich, Germany and Iran University of Science and Technology, Iran

P18 A Comparison of a Full-Order Observer and a Reduced-Order Observer for Synchronous Reluctance Motor Drives

Toni Tuovinen, Marko Hinkkanen, and Jorma Luomi
Aalto University School of Electrical Engineering, Aalto, Finland

15.00-15.20 Coffee

15.20-16.50 Session 5: Model-based sensorless methods II

P19 Sensorless-Predictive Torque Control of the PMSM using a Reduced Order Extended Kalman Filter

Esteban Fuentes and Ralph Kennel
Technische Universitaet Muenchen, Munich, Germany

P28 Analysis of phase-detection algorithms for back-EMF-based sensorless strategies through real-time simulations

M. Tursini, C. Olivieri, L. Di Leonardo
University Of L'Aquila, Italy

P30 Design issues and estimation errors analysis of back-EM based position and speed observer for SPM synchronous motors

Silverio Bolognani, Sandro Calligaro, Roberto Petrella
University of Padova & University of Udine, Italy

16.50-17.00 Close

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