



JMAG Users Conference 2018


December 5-6, 2018 Tokyo Conference Center - Shinagawa

Overview

Organizer	J SOL Corporation
Dates	December 5 and 6, 2018
Venue	Tokyo Conference Center - Shinagawa AREA Shinagawa 1-9-36 Konan, Minato-ku, Tokyo
Expected number of participants	Approximately 450
Registration Fees	JMAG Users : Free General Admission : ¥50,000 (without tax, lunch included)

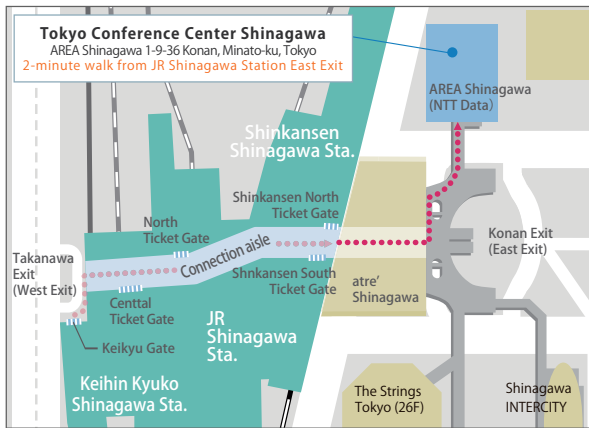
Program

[Keynote Speech] DAY1: Wednesday, December 5 (11:00 – 12:00)



New Opportunities for Motor Design - Electric and Hybrid Propulsion of Aircraft

Prof. Bulent Sarioglu
Associate Professor, ECE
University of Wisconsin-Madison



- Examples of using JMAG from top players
- Detailed descriptions of the JMAG V18 release
- AC motor design course by Prof. Miller
- Brushing up on JMAG
- JMAG motor design workflow
- Check the latest information on coupling!
- JMAG partner exhibitors



Seating is Limited so Register Online Today!
www.jmag-international.com/conference2018/

Exhibitors

Updated November 21th order of application received.

JMAG Users Conference 2018 Program

DAY1: Wednesday, December 5 10:00 - (Registration 9:30 -)

🎧 : Presentations with this mark offer simultaneous Japanese-English interpretation.

AM	Registration		
	Opening remarks		
	Development planning / Keynote Speech		
	Development planning of JMAG		Takashi Yamada, JSOL Corp.
	New Opportunities for Motor Design - Electric and Hybrid Propulsion of Aircraft Keynote Speech		Prof. Bulent Sarioglu Associate Professor, ECE University of Wisconsin-Madison
PM	Break (Lunch)		
	Optimization 1	Large transformers	For JMAG Users (2-3 Yrs)
	Development of High-Power-Density Machines for Aircraft Applications University of Wisconsin-Madison	Analysis of Winding Losses of Shunt Reactor using "Zooming Analysis" Meidensha Corporation	Introduction of JMAG for magnet rail analysis SANSHIN KINZOKU KOGYO CO.,LTD.
	Application Studies of JMAG Topology Optimization in the Design of Wristwatch Motors Seiko Instruments Inc.	3D Magnetic Field Analysis of Large Power Transformer with Parallel Calculation Processing Fuji Electric Co.,Ltd.	
	Partner Seminar	AC motor design course by Prof. Miller	JMAG Seminar
	[PS1] Development of soft magnetic powder cores for motor application and Improvement of the motor-performance with the cores Sumitomo Electric Industries, Ltd.	History, Synthesis, Analysis and a little Testing of AC Motor Windings Prof.T.J.E. Miller Emeritus Professor, Electronics and Electrical Engineering University of Glasgow	Introduction of JMAG functions and analysis technologies in English
	[PS2] Introduction to Motor Thermal analysis in Motor-CAD Romax Technology Limited.		
	Optimization 2	Control / JMAG-RT	Induction Heating
	Integrated Framework for Design Synthesis and Optimization of IPM Machine for Off Highway Applications John Deere India Pvt. Ltd.	Magnetic Field Analysis of Permanent Magnet Synchronous Motor Using JMAG-Designer Ver.17.1 with Control Circuit Modeling Functions Mitsubishi Electric Corporation	Development of a Simulation Method for Electromagnetic Stirling in Levitation Melting Furnace Using a JMAG-STAR-CCM+ Two-way Coupled Analysis Daido Steel Co., Ltd. / Star Info Tech Co.,Ltd.
	Analyzing Permanent Magnet Motors with Magnetic Field + Structural Coupling Using PSL (Power Simulation Licenses) Toshiba Infrastructure Systems & Solutions Corporation	JMAG-RT Case Studies Using 3D Analysis MITSUBA Corporation	Induction Heating Analysis Using Current Control KOYO THERMO SYSTEMS CO.,LTD.
	Application of Machine Learning and Enhanced 3D Modeling on HPC Systems for End-Winding AC Loss Model Identification Robert Bosch GmbH	Analysis and simplified model of induction motor for automotive applications. Tokyo Institute of Technology	Electromagnetic Field - Thermal Stress Coupled Analysis and Experiment Verification in High Frequency Induction Hardening Denki Kogyo Co.,Ltd.
	Reception		

Exhibition

DAY2: Thursday, December 6 9:00 - (Registration 8:30 -)

AM	Registration		
	Loss		
	Design of IPM Machines with Hairpin Windings for Electric Vehicle Applications. IAV GmbH Chemnitz		
	Application of Hysteresis Model to Improve Accuracy of Iron Loss Estimation for Rotating Machine DENSO CORPORATION		
	Modeling and Reduction Techniques for Bundle- and Strand- level Proximity Losses in High-Speed AC Machines SFMotors Inc.		
	High-accuracy efficiency maps	Linear motor	Solenoid / Injector
	Deep Motor Development based on JMAG-Designer CHINA FAW Co.,Ltd.	Linear Motor & Eddy Current Brake Design For The Worlds First Hyperloop Test Track Virgin Hyperloop One	Optimization of solenoid attraction using JMAG optimization function CKD Corporation
	IPM Motor Efficiency Evaluation and Real Machine Verification with 1D - 3D Simulations SUZUKI Motor Corporation	Analysis of LIM-type Eddy-Current Rail Brakes using Large Scale Model Railway Technical Research Institute	Development of Control Circuit Model for Multi Injection Solenoid Valve Motion Prediction Hitachi Automotive Systems, Ltd.
			Wireless Power Transfer
			Optimum design of Wireless Power Transfer coils for EVs calculated by JMAG Technova Inc.
			Effects of the aluminum coil on the WPT system Tabuchi Electric Co.,Ltd.
	Break (Lunch)		
PM	Vibration Analysis 1	Motor Simulation	
	Low Oscillation Actuator for Force-controlled Medical Robot Arm Sony Imaging Products & Solutions Inc.	A temperature prediction technique of motors by the combination between harmonic loss simulation by JMAG-Designer and thermal simulation by FloTHERM. Aisin Seiki Co., Ltd.	
	Analysis of the Electromagnetic NVH of Electrical Machines AVL Software and Functions GmbH	Analysis and optimization of a high speed induction motor in an EV application using JMAG AVL Software and Functions GmbH	
	Investigating the Possibility of Improving Performance by Applying CFRP to Outer Rotor Housing PUES Corporation	Higher Radial Suspension Force of Magnetic Bearing on Centrifugal Compressor for HVAC DAIKIN INDUSTRIES, LTD	
	Partner Seminar	JMAG Seminar	
	[PS3] Oil cooling electric machine analysis using multiphase model transition of Simcenter STAR-CCM+ Siemens PLM Software Computational Dynamics K.K.	Introduction of JMAG functions and analysis technologies in English	
	[PS4] Right First Time Design of e-Drive NVH Romax Technology Limited.		
	Vibration Analysis 2		
	Electromagnetic Force Analysis of Permanent Magnet Synchronous Motor Driven by PWM Inverter		Hitachi Automotive Systems, Ltd.
	Case Study of Motor Noise for In-Wheel Motor Electric Vehicle		Nissan Motor Co.,Ltd
	Open forum		
	JMAG's responses to user proposals		Takashi Yamada, JSOL Corp.
	Close		

Exhibition

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JMAG Division JSOL Corporation

Harumi Center Bldg., 2-5-24 Harumi, Chuo-ku, Tokyo, 104-0053, Japan
TEL: +81(0)3-5859-6026 FAX: +81(0)3-5859-6030 E-mail: event@jmag-international.com

www.jmag-international.com/conference2018/