

powersys

Simulation Solutions for Electrification JMAG & PSIM Conference 2020

Virtual Edition | Oct. 5th to 16th

The program



Motor Design

Motor Drive

Power Conversion

Renewable Energy

Multiphysics

Product updates

New York Start time (EST)	Paris Start time (CEST)	Chennai (IST) Start time	Japan Start time (JST)	5-Oct-20	6-Oct-20	7-Oct-20	8-Oct-20	9-Oct-20
4:00 AM	10:00 AM	1:30 AM	5:00 PM	Introduction, Vincent Capron Powersys (France)		Shape and topology optimization of PM machines for higher speed drives, Shashikiran HK John Deere (India)	A Spline-based Freeform Shape Optimization Workflow, Mr. Schöps Technical University of Darmstadt (Germany)	
5:00 AM	11:00 AM	2:30 PM	6:00 PM	Development planning of JMAG, Dr. Takashi Yamada JSOL Corporation (Japan)	Demo session JMAG V20 "APV, Dashboard, Coil Modelling and Efficiency maps", Juan Marcano, Powersys (France)	Single-Phase BLDC Claw-Pole Motor Design Improvements and Analyses, Stefan Leitner TU Graz (Germany)	PSIM implementation for modelling the solar based Grid-fed converter, Prachi Arora Luminous power technologies PVT Ltd (India)	Demo session JMAG V20 "Multiphysics and Topology Optimization", Ahmed Shoeb, Powersys (France)
6:00 AM	12:00 PM	3:30 PM	7:00 PM	Efficiency and loss calculation of Marine, Rail and E-mobility Traction Motors in JMAG, Shafiqh Nategh & Stephan Kenzelmann ABB (Sweden)	How to create a Geometry Template in JMAG using Python Scripting, Juan Marcano Powersys (Germany)	Agile electrical machine development for electric and hybrid electric aircraft, Zoltan Nadudvari Rolls Royce (Hungary)	Simulations for the design of supercapacitor-based energy storage in large scientific facilities, Alessandro Lampasi ENEA (Italy)	Poster session, Didier Zefack & Yves Thiolière, Powersys (France)
9:00 AM	3:00 PM	6:30 PM	10:00 PM	Enhanced calculation of the end-winding leakage inductance for high power density pmsm, Marco Silberberger Robert Bosch (Germany)	PSIM Implementation of a Dynamic Model of Three-Phase Induction Motors, Danilo Camuglia University of Catania (Italy)	Modeling, Analysis and Design of a Homopolar Machine for Aerospace and Transportation Applications, Giulia Simoni University of Pisa (Italy)	Experimental platform for the study of impact of rooftop PV system integration on distribution grid, Ilhem Slama-Belkhodja ENIT (Tunisia)	Development planning of PSIM, Hua Jin Powersim (USA)
10:00 AM	4:00 PM	7:30 PM	11:00 PM	Investigation of Unbalanced Magnetic Force in Fractional-Slot PM Machines with Odd Number of Stator Slot, Yu Wang Sheffield University (UK)	Additively Manufactured Copper Windings – Calculation Process, Optimization, Potential, Dr. Jakob Jung TU Freiberg / Additive Drives GmbH (Germany)	Efficiency map generation considering Hysteresis and eddy current loss distributions, Ahmed Shoeb Powersys (Germany)		Switched-Capacitor Front-End Converter for Universal Power Factor Correction Applications, Yasser Nour Technical University of Denmark (Denmark)
11:00 AM	5:00 PM	8:30 PM	12:00 AM					

Motor Design	Motor Drive	Power Conversion	Renewable Energy	Multiphysics	Product updates
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New York Start time (EST)	Paris Start time (CEST)	Chennai (IST) Start time	Japan Start time (JST)	12-Oct-20	13-Oct-20	14-Oct-20	15-Oct-20	16-Oct-20
4:00 AM	10:00 AM	1:30 PM	5:00 PM			A 30kw wireless power charging system for electric vehicles, Zariff Meira Gomes VEDECOM (France)		
5:00 AM	11:00 AM	2:30 PM	6:00 PM	Efficiency and Voltage Gain of PFC Circuit Under Variation in Load and Frequency of Operation Using Wideband Gap Devices, Sooraj V TATA ELXSI (India)	Poster session, Didier Zefack & Yves Thiolère, Powersys (France)	Design and Analysis of SEMiX151GD066HD IGBT switching and Conduction Losses using PSIM, Dr V Indragandhi Vellore Institute of Technology (India)	The best coupling tools in MBD for motor drive simulations: JMAG & PSIM, Didier Zefack & Adrien Michel Powersys, (France)	Dynamic control of Three-Phase Induction Motors with Scalar control at low speeds, Kaarthi.C VERSA DRIVES (India)
6:00 AM	12:00 PM	3:30 PM	7:00 PM	High Voltage DC-DC converter for design and simulation for Microwave Device application, Ajeet Kumar Dhakar CSIR-CEERI,PILANI (India)	Simulation of DAB in PSIM for academic demonstration, Sumantra Bhattacharya ULM University (Germany)	Design and optimization of the controller and creating efficiency maps in JMAG, Dr.-Ing. Saeid Saeidi SOBEK Drives GmbH (Germany)	Permanent Magnet based traction motor for electric 3 wheeler vehicle for Indian Roads, Partha Sarathi Roy Drivz (India)	Evaluation of Electric Machines in Basic Design Stage Using the Simulation Platform GT-SUITE, Michael Zagun Gamma Technologies GmbH (Germany)
9:00 AM	3:00 PM	6:30 PM	10:00 PM	A Hybrid Multitrack-Sigma Converter with Integrated Transformer for Wide Input Voltage Regulation, Mingxiao Li Technical University of Denmark, (Denmark)	A Better Way to Design and Test Motor Drives for EV's, Petar Gartner Typhoon HIL (USA)	Invertek Motor Drive Power Stage Input Harmonics Improvement and Thermal Rise Optimization by Using PSIM Simulation Data, Xuefu Zhang & Liam Blewett Invertek Drives	Electric machine cooling analysis using a coupled Magnetic Field and Thermo-fluid software's, Didier Zefack & Maxime Bommé Powersys & Hexagon (France)	Thermal optimization of oil-cooled e-motors by Moving Particle Simulation, Didier Zefack & Michele Merelli Powersys & Enginsoft (France)
10:00 AM	4:00 PM	7:30 PM	11:00 PM	Power production: using Psim to design the excitation system and analyze its performance in the design phase, Etienne MORIETTE Omexom, (France)	Asymmetrical secondary modulated AC-DC converter for three-phase PFC application, Denys Zinchenko Tallinn Technical University (Estonia)	E-Drive development with virtual twin of testbed environment, Andrea Piccioni AVL Graz (Austria)	Thermal Equivalent Circuit Model of Multi-Die SiC Power Modules, Carmelo Barbagallo University of Catania (Italia)	
11:00 AM	5:00 PM	8:30 PM	12:00 AM					



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**Simulation Solutions
for Electrification**

JMAG & PSIM Conference 2020

Virtual Edition | Oct. 5 to 16

The **2020 Powersys Conference** will take place from **October 5th to 16th**.

Two of our core products: **JMAG** and **PSIM** will be highlighted during this event through user stories, poster and partner presentations.

This conference is a perfect opportunity for **all stakeholders involved in vehicle electrification** to learn more about how to:

- Use integrated model-based design solutions to shorten and fasten development cycle
- Bridge the gap between power electronics and motor design .

This event will bring together electrical & electromechanical power system experts, software users and developers and Powersys' team.

To participate

Due to the COVID-19 outbreak, this event will be virtual and hosted on the virtual platform, **Whova**.

To participate, register at:

www.powersys-solutions.com/uc2020

We look forward to seeing at the conference.

The Powersys team