PLECS WORKSHOP

Advanced Modeling Simulation of Power Electronic Systems
Harbin Institute of Technology, June 23, 2016

08:30-09:00	**Registration**
09:00-10:00	**Introduction to PLECS** ✓ General use of PLECS Blockset & PLECS Standalone ✓ Instantaneous Switching ✓ Variable and Fixed Step Operation Exercise: Modeling a Switched-Mode Power Supply
10:00-10:30	**Break**
10:30-12:00	**Solver Setting** ✓ Definition of Stiff and Non-Stiff Systems ✓ Explicit and Non-Explicit Solvers ✓ Stability Domains ✓ Accuracy Considerations, Step Size Control ✓ Proper handing of Discontinuities, Zero-Crossing detection Exercise: Solver Accuracy and Settings
12:00-13:00	**Lunch**
13:00-14:30	**Introduction to Thermal, Mechanical, Magnetic Modeling & Simulation** ✓ Switching & Conduction Loss Descriptions ✓ Combined Electrical-Thermal Simulation ✓ Permeance Capacitance Analogy Model ✓ Mechanical Model Exercise: Thermal Modeling of a Buck Converter

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14:30-14:45	**Break**
14:45-16:00	**Overview of PLECS Tools** ✓ AC Sweep and Impulse Response Analysis Tools ✓ Steady State Analysis Tool ✓ Implementing Custom Components Exercise: Creating a Custom PV String Component
16:00	**End of Workshop**
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