
PLECS CONFERENCE 2026

Real-Time Simulation

**March 03 • 8:30 to
March 04 • 16:30**

**Technopark Zurich
Technoparkstrasse 1 • 8005 Zurich • Switzerland
Phone +41 44 533 51 00 • Email info@plexim.com**

Conference Agenda

Monday, March 2, 2026

18:00	Two-Hour Reception at the Venue
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Tuesday, March 3, 2026 – Conference Day 1

8:30	Registration, Welcome Coffee		
9:00	PLECS Conference: Opening Remarks	Dr. Jost Allmeling	Plexim
9:15	Power Electronics - The Key Technology for a Modern and Sustainable Society - Modelling Challenges	Prof. Dr. Frede Blaabjerg	Aalborg University
9:45	Modeling of a Power Electronics Enhanced Transformer (Peet) and Development of Its Controller	Adrien Rosselet	Hitachi Energy
10:15	Break		
11:00	HIL Validation for Electric Ship Commissioning: Converting Confusion Into Confidence	Dr. Jonghun Yun	Karlsruher Institut für Technologie
11:30	Investigation of a Three-Level Inverter With Reduced Switch Count	Simon Quergfelder	Fraunhofer IISB
12:00	Lunch		
13:30	Power-HIL: Introduction and Application Examples	Daniel Skibicki	EGSTON
14:00	Real-Time Simulation With RT Box: Reducing-Time-To-Market for GaN Power Electronics in Automotive Application	Prof. Dr. Radu Bojoi	Politecnico di Torino
14:30	Examples of Power-HIL Over SFP With Imperix Hardware	François Ledent	Imperix
15:00	Break		
15:45	Applying PLECS-Based Simulation and HIL Validation Workflows to Verify Production Software Performance	Dr. Lóránd Bede	KK Wind Solutions
16:15	Balancing of Modular DC-DC Converters - Control HIL and Hardware Validation	Lukas Leucker	RWTH Aachen
16:45	Enabling Real-Time Simulation of Next-Generation Single-Stage On-Board Chargers with Nanostep	Lino Capponi	Plexim
17:15	Break, Appetizers		
19:00	Dinner		

Conference Agenda

Wednesday, March 4, 2026 – Conference Day 2			
8:00	Welcome Coffee		
8:30	RT-HIL Enabled Development of High-Frequency Power Supplies for Data Centers	Prof. Dr. Drazen Dujic	EPFL
9:00	Digital Asserts Based on PLECS Models for Enhanced Validation of Power Electronic Systems Beyond Control-Centric Real-Time	Riccardo Tinivella	BRUSA HyPower
9:30	A Development & Validation Platform With RT Box HIL: CI/CD Smoke Tests, Fault Injection, and Remote MCU Development	Felix Bille	ASSA ABLOY
10:00	Break		
10:30	Power-HIL: Flexible Inverter Testing at Full Power Level	Dr.-Ing. Manuel Fischer	dSPACE
11:00	Implementation of a Rapid Control Prototyping Approach for Power Stages Over EtherCAT	Niclas Thon	Infineon
11:30	Utilizing Realtime Simulation for Verification of a 4Q-controller for 3-level Converters	Alexander Tulov	AixControl
12:00	Lunch		
13:00	To Split or Not To Split: Addressing Growing Complexity in Real-Time Traction Simulations	Erich Scheiben	ABB
13:30	Reinforcing Converter-Dominated Power Systems Stability With Asynchronous Modeling Theories	Prof. Dr. Subham Sahoo	Aalborg University
14:00	Break		
14:30	Hardware-In-Loop Testing of Model Predictive Controllers for Medium-Voltage Drives	Ilari Hilden	Tampere University
15:00	PLECS Conference: Closing Remarks	Dr. Wolfgang Hammer	Plexim
15:30	End of Conference		

Organisational Information

Registration Deadline	February 18, 2026	
Conference Language	English	
Type of Event	On-site only, limited number of participants	There will be no virtual replacement for this event.
Venue Address	Technopark Zurich Auditorium, Ground Floor Technoparkstrasse 1 8005 Zurich Switzerland	
Travel and Directions	The venue and all hotels are well connected by public transport. Take the train S16 from the airport to Zürich Hardbrücke (every 30 minutes). The one-way fare is CHF 7.20. From Hardbrücke it takes a 5-10 minutes' walk to the venue and the hotels. Detailed information	Limited parking space is available at Parkhaus Technopark, Parkhaus Pfingstweid, Parkhaus Zürich P-West or Puls 5 Parkgarage. Parking fees at Technopark are approximately CHF 25.00 per day. A taxi ride from the airport to the venue costs approximately CHF 60.00.
Recommendation for Accommodation	Ibis Zurich City West Novotel Zurich City-West 25Hours Hotel Zurich West Renaissance Zurich Tower Hotel	All hotels are in walking distance (2-10 minutes) to the venue.
Organiser	Plexim GmbH Technoparkstrasse 1 8005 Zurich Switzerland	Phone +41 44 533 51 00 Email info@plexim.com
Registration Fee	CHF 700.00 (incl. VAT) or EUR 700.00 (incl. VAT)	Upon registration, an invoice for wire transfer will be sent via email. Payment by credit card is possible.
Registration Includes	Participation, lunch, snacks and beverages on both days, dinner on March 3rd.	
Cancellation Policy	Full amount will be refunded if cancelled by February 18, 2026. After this date or no-show, the participation fee is non-refundable.	If the organizer has to cancel the event, the registration fee will be refunded in full.
General Data Protection Regulation	We kindly point out that we must store your personal data in our database in order to process your registration. Plexim's privacy policy	Visitors acknowledge that they may be included in photos and videos taken during the event, and agree that these may be used without financial compensation.
Latest Information	Updated information about the PLECS Conference 2026 can be found on our website .	
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