
PLECS CONFERENCE 2025

Embedded Code Generation

**March 04 • 8:30 to
March 05 • 16:30**

**Technopark Zurich
Technoparkstrasse 1 • 8005 Zurich • Switzerland
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Conference Agenda

Monday, March 3, 2025

18:00	Two-Hour Reception at the Venue
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Tuesday, March 4, 2025 – Conference Day 1

8:30	Registration, Welcome Coffee		
9:00	Keynote Speech	Dr. Jost Allmeling	Plexim
9:15	Power Electronics: Key Enabling Technology for the Energy Transition - Control Hardware-in-the-Loop to Accelerate Innovation	Prof. Dr. Rik W. De Doncker	RWTH Aachen
9:45	Control Design for a Distributed Energy Management Systems of a Hybrid AC and DC Power Plant	Christopher Ranisch	Hochschule Darmstadt
10:15	Break		
11:00	TBA	TBA	TBA
11:30	On the Implementation of Discrete Resonator Using Low Sampling Frequency	Dr. László Máthé	Robert Bosch
12:00	Lunch		
13:30	Qualification of Simulink Code Generators for BMW	Oscar Slotosch	Validas
14:00	Floating point is not a silver bullet for embedded systems	Felix Engel	dSPACE
14:30	Control Upgrade of 100 MW 12-Pulse Rectifiers for Plasma Physics Using Advanced Controllers and Programming Workflow	Julien Orsinger	Imperix
15:00	Break		
15:45	Real World Examples for PLECS Codegeneration. Implementation and Usage.	Jochen Rohm	EDAG Engineering
16:15	Embedded Code Generation: Accelerating Development with the ePCDP (embeX Power Conversion Development Platform)	Niloofar Jafarnia	embeX
16:45	Advanced Current Mode Control Techniques in Power Electronics: Leveraging a Model-Based Workflow	Lino Capponi	Plexim
17:15	Break, Appetizers		
19:00	Dinner		

Conference Agenda

Wednesday, March 5, 2025 – Conference Day 2			
8:00	Welcome Coffee		
8:30	Code Generation Meets High Power Systems - An Integrated Approach	Thomas Schulze & Shridhara Gangaraju	GVA Leistungselektronik
9:00	Reinforcement Learning for a Stateless Current Control with Artificial Neural Networks	Nick Uhlig	AixControl
9:30	Control of DC Drives - Comparative Concepts with FPGA and Microcontroller	Prof. Dr. Marcel Benecke	Hochschule Magdeburg-Stendal
10:00	Break		
10:30	Infineon 32-Bit Industrial Microcontroller PLECS Target Support Package Enabling Fast Prototyping	Ivan Dobes	Infineon
11:00	Model Based Embedded Code Generation - A Pathway for Effortless Embedded Implementations	Tyson Dagherne	Silicon Austria Labs
11:30	Utilizing RT Box and TI C2000 Code Generation for a Power Hardware-in-the-Loop Test Bench	Fabian Herzog	RWTH Aachen
12:00	Lunch		
13:30	Code Generation for Multi-Level Converter Used in Single-Phase DC/AC Converters	Dr. Riccardo Ruffo	Texas Instruments
14:00	Advanced Electric Motor Control and Simulation	Dr. André Veltman	Piak
14:30	Embedded Code Generation for Prototyping or Production	Riccardo Veroni	Meta System S.p.A.
15:00	Break		
15:30	TBA	TBA	TBA
16:00	PLECS: Future Prospects	Dr. Wolfgang Hammer	Plexim
16:30	End of Conference		

Organisational Information

Registration Deadline	February 20, 2025	
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 7.00. 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 4th.	
Cancellation Policy	Full amount will be refunded if cancelled by February 20, 2025. 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 2025 can be found on our website .	
This Document Has Last Been Updated on	10.12.24	