
PLECS CONFERENCE 2025

Embedded Code Generation

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

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

Conference Agenda

Monday, March 3, 2025

| | |
|-------|---------------------------------|
| 18:00 | Two-Hour Reception at the Venue |
|-------|---------------------------------|

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 | TBA | TBA | TBA |
| 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 Daborne | 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 | 25.11.24 | |