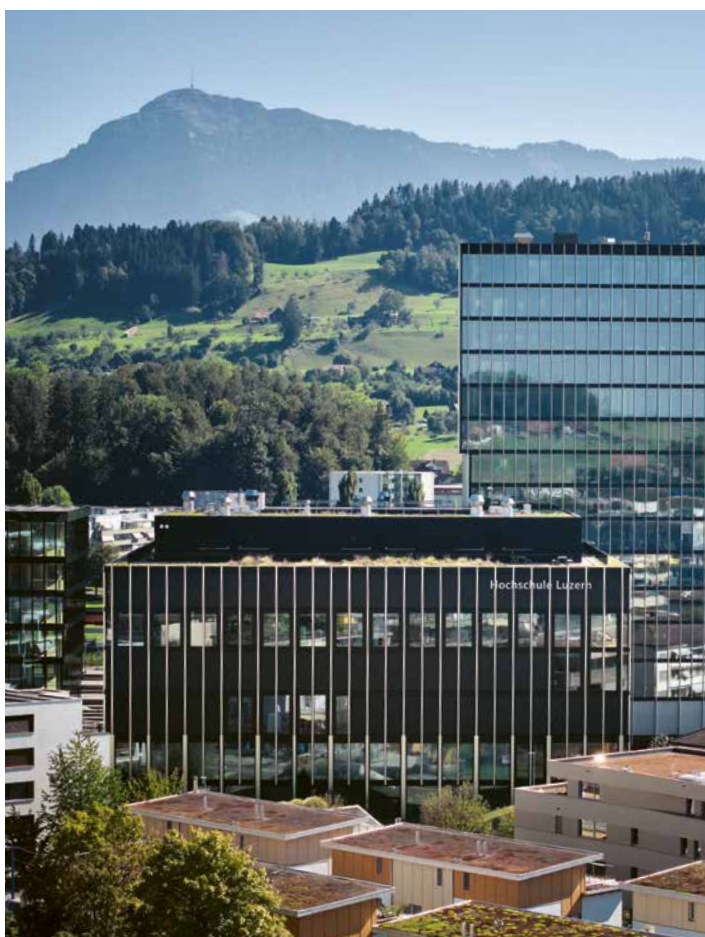


16th Modelica & FMI Conference

September 8 – 10, 2025

Lucerne University of Applied Sciences and Arts (HSLU)



Content

Modelica & FMI News → 3

Keynotes → 7

Panel Discussion → 9

General Schedule

Monday, 8th September → 13

Tuesday, 9th September → 14

Wednesday, 10th September → 15

Presentation Schedule

Tuesday, September 9th, 10:20 – 11:25 → 16

Tuesday, September 9th, 13:00 – 13:50 → 18

Tuesday, September 9th, 14:45 – 15:35 → 20

Wednesday, September 10th, 09:15 – 10:05 → 22

Wednesday, September 10th, 11:00 – 12:15 → 24

Wednesday, September 10th, 14:10 – 15:25 → 26

Scientific Poster Presentations → 28

Social Program → 30

Practical Information → 31

Site Plan → 34

Sponsors & Exhibitors → 37

Modelica & FMI News

Dear Participants of the 16th International Modelica & FMI Conference

Our biannual conference represents the main event where our community exchanges on the newest developments on the standards of the Modelica Association. Given all the highlights since the last conference, there is indeed a lot to exchange. Here are the most important milestones that have been reached:

- FMI has surpassed support from over 250 different simulation tools, further solidifying its position as world-leading standard for model-exchange and co-simulation.
- The first version of new layered standards has been released, most importantly FMI-LS-BUS for network communication. The concept of layered standards will enable a more decentralized development of standards.
- SSP 2.0 has been released, making the former standard more valuable in industrial practice. Join the corresponding industrial user presentations and the tutorials to learn more about it.



→ **Dirk Zimmer**
Chairman of the Modelica Association



→ **Ulf Christian Müller**
Chairman of the 16th Modelica &
FMI Conference

- The Modelica Standard Library (MSL) v4.1 has been released. This important release contains vital backward compatible improvements w.r.t version 4.0 and from now on, the development of the MSL is planned to transform into a mode of continuous integration.

I want to thank all our members and especially the Modelica Association project leaders for their hard work and persistence that make this progress possible.

This uptick in activity is also reflected in the program of this conference. With significantly over 100 scientific papers submitted, we had to carefully select the papers for presentation. It is great to see so many domains covered and even new application fields such as pharmacology and marine applications added to the conference program. Since our standards increasingly permeate industry, we have decided create a dedicated track for industrial user presentations and welcome contributors of different background: from waste water treatment to aerospace applications.

Whereas the Modelica Association has started on one particular modeling language, the association meanwhile hosts a whole set of standards for modeling and simulation. This is best reflected by the record number of 15 tutorials that we offer at this conference, that cover these new standards and their relevant use cases.

Having reached our past milestones, it is important to set new development targets for the Modelica Association. There are 3 main topics where we have already started.

Further International Development

The biannual rhythm of our conference enables Modelica events in America and Asia that take place in between. We are glad to have a strong team with the North-American Modelica Users Group (NAMUG) in the United States that have established a healthy community. The next American Conference will be in Atlanta, Georgia in the autumn of 2026.

With conferences in Japan and Korea, a local team will now form for Asia as well and that especially includes China where Modelica has gained popularity and found many users. The Modelica Association however is underrepresented in China and it is worth a dedicated effort to strengthen their local community. As one of the actions, we are proud to announce the next Asian Modelica conference 2026 in Hangzhou, China. The Modelica board also aims to give our members in Asia and their activities sufficient representation.

Cross layered standards

Layered standards represent a concept that has been developed around FMI but that proves to be of generic value. Primarily, layered standards enable the organic and decentralized development of sub-standards for particular applications or domains without having to interfere with the main standard. Many of these layered standards thus care about enhanced meta-information. Often this meta-information is also relevant for other standards such as SSP and especially the Modelica language itself. The MA will therefore take action to harmonize the development of layered standards so that they can be created as cross-layered standards, for instance applicable to both FMI and Modelica.

Education initiative

Equation-based modeling is a craft and requires training and education. We are fortunate that many professors at universities and professional consultants undertake this effort. Yet, the teaching material that is directly available through the association requires a significant update. We therefore invite teachers to join the Modelica association and collectively organize their teaching material.

Furthermore, another option is to develop some simpler libraries that are easier to understand and more robust to apply. This shall help to lower the barrier of entrance. The barrier of entrance is also currently lowered by many tool developers who provide web-based services with easily accessible interfaces.

The Modelica Association welcomes these recent developments and we thereby want to contribute to the education in modeling and simulation world-wide.

Concluding Remarks

The recent developments within the field of artificial intelligence (AI) have strong disruptive potential for all processes of information technology with modeling and simulation being a part of it. The use of agentic AI in co-pilots or similar tools already impacts the way we program, work and interact with our software tools, and sub-components built using NN are integrated seamlessly.

It is currently impossible to predict exactly how Modelica and its associated standards will interplay with these developments. However, what is fundamentally useful for humans, will also be useful for AI:

- Having open-source libraries based on open-standards is a very useful source of information for both humans and AI.
- Having widely applicable standards for model-exchange and co-simulation is highly useful for both humans and AI.
- Having standardized formats for parameterizations of models and results is highly useful for both humans and AI.

Even in these exciting (and probably transitioning) times, it is therefore good advice to remind ourselves about the fundamental basis of our work: creating useful mathematical descriptions of our world and make them available, executable and shareable via open-standards.

Regarding this, I am sure the 16th International Modelica & FMI Conference will be full of excellent examples and I wish you all much inspiration and fruitful exchange!

Dirk Zimmer

Chairman of the Modelica Association

Ulf Christian Müller

Chairman of the 16th Modelica & FMI Conference

Keynotes

Tuesday, September 9th,
09:00 – 09:45, Audi Max

Physics-Informed AI



→ **Mishra Siddhartha**, Professor and
Deputy Head of the Seminar for
Applied Mathematics at ETH Zürich

AI is increasingly being used in the fast and accurate simulation of physical systems. In this keynote, we will discuss how knowledge of the underlying physics can be explicitly incorporated into AI systems for physical simulations. Key examples will highlight the potential gains as well as the involved challenges.

**Wednesday, September 10th,
08:30 – 09:15, Audi Max**

Opportunities and Challenges in Design and Operation of Integrated Energy Systems



→ **Johan R Åkesson**, Associate Director
for Computational Engineering at
Carrier, Former CTO Modelon AB

The complexity of modern integrated energy systems demands the systematic use of systems engineering methods and tools to address key challenges across product lifecycle. This keynote will explore three related and critical areas: 1) the demand for diverse model fidelities and analysis, 2) maintaining consistency across design layers, and 3) the importance of seamless tooling and integration. Real-world, HVAC-specific examples will highlight how these challenges are being tackled in practice and the opportunities they present. For over two decades, Carrier has relied on Modelica as a cornerstone technology for model-based product design. The journey began with the development of control systems for transportation refrigeration, where transient simulations allowed for rapid control function development and verification. Today, while controls development remains a vital application, Carrier has expanded

Modelica's use across the entire product lifecycle – from conceptual design, through testing and verification, to business sales tools, and into operation with monitoring and diagnostics. Design and operation of highly integrated energy systems such as data centers and district heating systems also calls for new methods and tools. Differentiated applications has driven diversified analysis with Modelica models. Modelica-based steady-state simulation has emerged as a back-bone in product design, sales tools, as well as in field diagnostics. Steady-state and transient optimization is also a necessary element across the product life cycle. The need for diversified analysis and computation is further amplified by application of systems engineering methods where requirements, design space exploration, and validation and verification are key elements.

Panel Discussion

**Tuesday, September 9th,
16:00 – 17:00, Audi Max**

For the first time at the International Modelica & FMI Conference, we will have a Panel Discussion. The topic is:
Open Standards vs. Open source, Collaboration or Conflict?

We choose panelists from a broad range of companies and organizations using Modelica for their product design and research. Our distinguished panelists are:



→ **Adam Moravanszky**, Senior Director
Simulation Technology, NVIDIA.

At NVIDIA, Adam leads teams advancing open source simulation projects such as PhysX and Newton, and chairs the Physics Working Group of the Alliance for OpenUSD (AOUSD) open standard.



→ **Clément Coïc**, Technology Cluster Lead – Digital Mechatronics, Siemens Healthineers.

Clément leads innovation projects that investigate the value and interconnection of new digital technologies for Siemens Healthineers purposes. A specific focus is carried into leveraging system simulation for better control or path planning of robotic systems, enhancing Machine Learning models with Physics, and modeling the physical behavior of PhysicalAI developments. His works heavily relies on open standards, like Modelica and FMI, and open source modules – like Julia’s SciML ecosystem, ROS or OpenCV and Yolo, to name a few.



→ **Dirk Zimmer**, Chairman of the Modelica Association. Expert for equation-based modeling and simulation at the Institute of Robotics and Mechatronics, German Aerospace Center (DLR).

The open Modelica standards provide a real technical, economical as well as societal benefit. Promoting them in Dirk’s role as Chairman is hence an honor. Also DLR profits from them: in the field of robotics the multi-domain simulation and control aspects play a crucial role for further advancement.



→ **Marius Dupuis**, CEO, ASAM e.V.

The CEO's role at ASAM is to manage a team that keeps things running, kicks off new endeavors, and makes sure we are seen and heard. Marius' role is right in the midst of system simulation and (open) standards. It comprises getting members on board, motivating them to initiate and conduct standardization projects, providing a roadmap and legal framework that fit the market, and keeping the association in a good shape.



→ **Michael Wetter**, Computational Senior Scientist, Lawrence Berkeley National Laboratory (LBNL).

Leading the development of modular modeling, design and controls based on Modelica and FMI for building and district energy and control systems. Michael Wetter has been leading the Modelica Buildings Library which is used in industry and academia for the design of HVAC equipment, building and district energy systems, and data center cooling systems. He also spearheaded the development of digitalization of building control design-installation-commissioning, leading to the proposed ASHRAE Standard 231P, expected to be approved within the next few months, which uses a subset of Modelica to standardize control logic formulation in a vendor-independent format.



→ **Hans-Martin Heinkel**, Project Leader prostep SmartSE, and Bosch expert in MBSE and simulation-based engineering.

Hans-Martin has more than 35 years of experience in systems engineering, system simulation, Hardware-in-the-Loop, and the integration of simulation into development processes. His main focus, both within Bosch and in the prostep project, is on collaboration based on simulation-supported engineering.



→ **Hubertus Tummescheit**, Board member Modelica Association, President Model Based Innovation LLC.

We are looking forward to a lively and informative discussion with our panelists. The panel discussion will evolve around a few prepared questions, and questions from the audience. It will be moderated by our board member Hubertus.

General schedule

Monday, 8th September

Start

11:30 Arrival / Reception in Rotkreuz with Welcome Coffee

Main-Entrance

13:00 Welcome Speech

Audi Max

13:30	Tutorials: all in parallel				
	Introduction to Modeling and Simulation, Debugging with Modelica and OpenModelica	FMI Beginners Tutorial	Introduction to System Structure and Parameterization (SSP)	eFMI: A beginner's overview and hands-on	Beyond Simulation: Building Workflows and Web Interfaces with Modelica and Python
	531	202	322	221	321
	Modeling complex thermal architectures using the DLR ThermoFluid Stream Library	3DS: Exporting and importing an FMU using C code	Using SMArtInt+: Machine-learning and easy integration of AI in Modelica	M&S of Robotic Arm Dynamics and Control in Modelica with MWORKS.	From Uncertainty-Aware Simulation to Learning-Based Control using FMI and Python
	320	203	330/331	201	Audi Midi
	Regression Testing with Dymola and the Testing Library	CasADi tutorial on dynamic optimization with FMI 3.0 Model Exchange	Modeling and Simulation of profitableness in Modelica industrial energy systems...	FMI3 co-simulation with UniFMU	Modiator: Develop a specialized Modelica Web-App
	520	220	309	501	310

14:45 Coffee Break with Poster Presentations

Main-Entrance, Poster-Exhibition, Sponsor-Exhibition

15:15 Tutorials continued

16:30 Short Break

16:45	1 Platinum and 3 Gold and 1 Silver Vendor Presentations: LTX, Dassault Systèmes, Modelon, Tongyuan, OpenModelica	7 Silver Sponsor Presentations: JuliaHub, Wolfram, XRG, orthogonal, eXXcellent, Claytex, MathWorks
	Audi-Max	Forum

19:05 Welcome Reception

Main-Entrance

Tuesday, 9th September

Start

08:30	Welcome Coffee				
	Main-Entrance				
08:50	Conference Opening by Ulf Christian Müller				
	Audi Max				
09:00	Keynote of Mishra Siddhartha on Physics-Informed AI				
	Audi Max				
09:45	Modelica and FMI News by Dirk Zimmer				
	Audi Max				
10:00	Short Coffee Break with Poster Presentations				
	Main-Entrance, Poster-Exhibition, Sponsor-Exhibition				
	Scientific Track				Industrial Track
	General Modelica	Energy	Control & AI	FMI and related	Industrial Users
10:20	Modelica Tool Development	Power System Simulation	Modelica & AI	FMI Tool Development	Modelica Applications
	Session Red: 202	Session Green: Audi-Max	Session Blue: Audi-Midi	Session Yellow: Forum	Session Black: 203
12:00	Lunch				
	Main-Entrance				
13:00	Chemics, Pharmacology and Medicin	Thermal Management for Green Energy Systems	Robotics	Layered Standards	Aerospace
	Session Red: 202	Session Green: Audi-Max	Session Blue: Audi-Midi	Session Yellow: Forum	Session Black: 203
14:15	Coffee Break with Poster Presentations				
	Main-Entrance, Poster-Exhibition, Sponsor-Exhibition				
14:45	Digital Twin	Media Property modeling	Control for HVAC and Buildings	FMI for energy systems	Credible Simulation, Traceability, SSP
	Session Red: 202	Session Green: Audi-Max	Session Blue: Audi-Midi	Session Yellow: Forum	Session Black: 203
16:00	Panel discussion on the value of open standards				
	Audi Max				
17:00	Transfer to Lucerne is individual by Train (Boarding at KKL)				
18:00	Boat-Cruise-Dinner (Departure 18:30 / Arrival 22:30 / 30 min Boarding and Exit)				

Wednesday, 10th September

Start

08:00 Welcome Coffe

Main-Entrance

08:30 Keynote of Johan R Åkesson on Opportunities and Challenges
in Design and Operation of Integrated Energy Systems

Audi Max

09:15	Simulation and Optimization	Pumps and Vapor Compression	FMI for Embedded Systems and Virtual Prototyping	Workflows in Systems Engineering	FMI Applications
	Session Red: 202	Session Green: Audi-Max	Session Blue: Audi-Midi	Session Yellow: Forum	Session Black: 203

10:30 Coffee Break with Poster Presentations

Main-Entrance, Poster-Exhibition, Sponsor-Exhibition

11:00	Modeling Methods and Tools	Energy Generation Systems	Control- and AI-based Methods with FMI for Automotive	Maritime Applications	Modelica Applications
	Session Red: 202	Session Green: Audi-Max	Session Blue: Audi-Midi	Session Yellow: Forum	Session Black: 203

12:40 Lunch

Main-Entrance

13:40 Awards and Announcements

Audi Max

14:10	New Translation Methods and Language Experiments	Fuel Cell Modeling and Control	Control Applications in Modelica	Automotive	FMI and SSP for Model-Based System Engineering
	Session Red: 202	Session Green: Audi-Max	Session Blue: Audi-Midi	Session Yellow: Forum	Session Black: 203

15:50 Coffee To Go

Main-Entrance

Scientific Track

Tuesday, September 9th, 10:20 – 12:00

General Modelica

Energy

Control & AI

Modelica Tool Development	Power System Simulation	Modelica & AI
Session Red: 202	Session Green: Audi-Max	Session Blue: Audi-Midi
10:20 <i>Hans Olsson</i> Improved Unit Inference and Checking in Modelica	10:20 <i>Marcelo de Castro and Luigi Vanfretti</i> OpenIWPI: Open-Instance Wave-Phasor Interface Library for Power System Simulation Studies in Modelica	10:20 <i>Andreas Hofmann and Lars Mikelsons</i> Towards Integration of PeN-ODEs in a Modelica-based workflow
10:45 <i>Henrik Tidefelt and Quentin Lambert</i> Implicit Unit Conversion in Modelica	10:45 <i>Srijita Bhattacharjee, Fernando Fachini and Luigi Vanfretti</i> Expanding an Open-Source Modelica-Compliant Package of Generic Renewable Energy Source Models: Implementation of the REEC_D and REGC_B Models in Modelica and OpenIPSL	10:45 <i>Linus Langenkamp, Philip Hannebohm and Bernhard Bachmann</i> Efficient Training of Physics-enhanced Neural ODEs via Direct Collocation and Nonlinear Programming
11:10 <i>Zhipeng Chen, Zhichao Huang, Chong Zhou, Yinqi Chen, Qi Liu, Fanli Zhou and Liping Chen</i> Model Disambiguation Technology in MWORKS.Sysplorer	11:10 <i>Herbert Schmidt</i> Analytical Treatment of Hollow Toroid Flux Tubes	11:10 <i>Tim Jonas Hanke, Johannes Brunnemann, Robert Flesch and Jörg Eiden</i> Status of the SMARtInt Library: Simple Modelica Artificial Intelligence Interface
11:35 <i>Baptiste Mazurié, Audrey Jardin, Pascal Borel, Didier Boldo, Frans Davelaar and Luis Corona Mesa-Moles</i> Data Reconciliation for Industrial Experiments	11:35 <i>Thomas Egsgaard Kallesen, Søren Waagø Christiansen and Rene Just Nielsen</i> Master controller concept for power flexible energy systems	11:35 <i>Ankush Chakrabarty, Marco Forgione, Dario Piga, Alberto Bemporad and Christopher Laughman</i> Zero-Shot Parameter Estimation of Modelica Models using Patch Transformer Networks

Industrial Track

Tuesday, September 9th, 10:20 – 12:00

FMI and related

FMI Tool Development

Session Yellow: Forum

10:20

Luis Sanchez-Heres, Fredrik Olsson and Jan Östh

Liaison: an open-source tool for distributed co-simulations

10:45

Michele Urbani, Michele Bolognese, Luca Praticò and Matteo Testi

A Tool for the Implementation of Open Neural Network Exchange Models in Functional Mockup Units

11:10

Erik Henningsson, Christian Schulze, Julius Aka, Manuel Gräber, Dag Brück, Elmir Nahodovic and Oliver Lenord

Input Smoothing for Faster Co-Simulation using FMI

11:35

Felix Tischer, Simon Genser, Daniel Watzenig and Martin Benedikt

Comparing the Predictive Event Handling Algorithm LookAhead to Rollback and Early Return

Industrial Users

Modelica Applications

Session Black: 203

10:20

Kanadevia Inova AG

Process-based Life-Cycle Sustainability Analysis of Integrated Solid Waste Management Systems: A Decision-Support Platform using OpenModelica

10:45

Optimation AB

On the challenges of large-scale simulation platforms and our solution to overcome them

11:10

Electric Power Research Institute, US

System Cost of Hydrogen Optimization & Sub-Hourly Comparative Analysis of PEM and Alkaline Electrolyzer Operation

11:35

Smith Group, United States

First Modelica Model: Lessons Learned from Modeling a Chilled Water Plant in Modelica

Scientific Track

Tuesday, September 9th, 13:00 – 14:15

General Modelica

Energy

Control & AI

Chemics, Pharmacology and Medicin	Thermal Management for Green Energy Systems	Robotics
Session Red: 202	Session Green: Audi-Max	Session Blue: Audi-Midi
<div>13:00</div> <div>Marek Matejak</div> <div>Chemical 2.0 (Free open-source Modelica library)</div>	<div>13:00</div> <div>Finn van Ginneken and Alexander Busch</div> <div>Modelling, Simulation and Validation of thermal propagation for 3D discretized battery cells in Modelica</div>	<div>13:00</div> <div>Sebastian Rojas-Ordoñez, Mikel Segura and Ekaitz Zulueta</div> <div>Integration of Physical and AI Models Using Open and Interoperable Standards: A Model-Based Methodology for Autonomous Robot Development</div>
<div>13:25</div> <div>Tomas Kulhanek, Filip Jezek, Jiri Kofranek, Marek Matejak and Stef Rommes</div> <div>Pharmacolibrary – Free Library to Model Pharmacology</div>	<div>13:25</div> <div>Lone Meertens, Jelger Jansen and Lieve Helsen</div> <div>Development and Experimental Validation of an Unglazed Photovoltaic-Thermal Collector Modelica Model that only needs Datasheet Parameters</div>	<div>13:25</div> <div>Matthias Reiner</div> <div>Modelica FMI based hybrid reinforcement learning enhanced trajectory planning for an ADR scenario for combined control of a satellite with a 7-axis robotic arm using Modelica/FMI</div>
<div>13:50</div> <div>Clément Coïc and Marco Masannek</div> <div>Combining static and dynamic optimization approaches for path planning, with collision avoidance</div>	<div>13:50</div> <div>Markus Gillner and Arne Speerforck</div> <div>Modelling Aquifer Thermal Energy Storage (ATES) System with Buoyancy Flow</div>	<div>13:50</div> <div>Antoine Pignède and Carsten Oldemeyer</div> <div>Automatic Modelica Package and Model Generation from Templates and Data Files with Python, Exemplified with URDF</div>

Industrial Track

Tuesday, September 9th, 13:00 – 14:15

FMI and related

Layered Standards

Session Yellow: Forum

13:00

Buffoni, Elmir Nahodovic, Robert Hällqvist, Oliver Lenord, Hans Olsson, Martin Otter, Antoine Vandamme and Adrian Pop

Towards a Common Standard for Uncertainty Quantification

13:25

Tobias Thummerer, Hans Olsson, Chen Song, Julia Gundermann, Torsten Blochwitz and Lars Mikelsons

LS-SA: Developing an FMI layered standard for holistic & efficient sensitivity analysis of FMUs

13:50

Christian Bertsch, Kahramon Jumayev, Andreas Junghanns, Pierre R. Mai, Benedikt Menne, Masoud Najafi, Tim Pfitzer, Jan Ribbe, Klaus Schuch, Markus Süvern and Patrick Täuber

FMI Layered Standard for Network Communication: Applications in Networked ECU Development

Industrial Users

Aerospace

Session Black: 203

13:00

Dassault Aviation

Bridging the gap between System Engineering and Simulation, applied to collaborative design of Aircraft Systems

13:25

Saab Aeronautics

OpenSCALING: A Saab Aeronautics Perspective

13:50

AIRBUS SAS, ALTEN

FMI Standard and Airbus Needs, Usages and Expectations Full Version

Scientific Track

Tuesday, September 9th, 14:45 – 16:00

General Modelica

Energy

Control & AI

Digital Twin	Media Property modelling	Control for HVAC and Buildings
Session Red: 202	Session Green: Audi-Max	Session Blue: Audi-Midi
<div>14:45</div> <div>Corentin Lepais and Dirk Zimmer</div> <div>Prototypical Control for the Digital Twin of Aircraft Environmental Control System</div>	<div>14:45</div> <div>Pascal Borel, Rafik Moulouel, Antoine Chupin and Felix Marsollier</div> <div>TAeZoSysPro: A Modelica Library for Thermal Aeraulic and Buildings Thermodynamics Calculations</div>	<div>14:45</div> <div>Michael Wetter, Yan Chen, Karthik Devaprasad, Paul Ehrlich, Antoine Gautier, Jianjun Hu, Anand Prakash and Marco Pritoni</div> <div>Modelica Meets ASHRAE: Towards A Digital Standard for Building Control</div>
<div>15:10</div> <div>Andreas Heckmann, Alexander Posseckert and Vijaya-Bhaskar Adusumalli</div> <div>Aspects and Ideas for the FMI-based Modeling of Railway Digital Twins</div>	<div>15:10</div> <div>Rohit Dhumane, Dan Gorman, Rajkumar K S and Dongping Huang</div> <div>Development of a Refrigerant Mixture Package for Dynamic Simulation of Auto-Cascade Refrigeration: A Case Study with R23/R134a</div>	<div>15:10</div> <div>Karl Walther, Michael Wetter, Anand Prakash and Jianjun Hu</div> <div>CDL-PLC translator: From Modelica HVAC control design to IEC 61131 PLC implementation</div>
<div>15:35</div> <div>Gerhard Hippmann and Blas Blanco Mula</div> <div>Collaborative Digital Twin Development for Railway Braking and Traction Applications</div>	<div>15:35</div> <div>Hubert Blervaque and Félix Marsollier</div> <div>A Generic Non-Miscible Liquid-Gas Medium Model in Modelica with Analysis of Incompressibility Assumptions</div>	<div>15:35</div> <div>Lucas Bex, Muhammad Hafeez Saeed, Lucas Verleyen, Lieve Helsen and Geert Deconinck</div> <div>Yet Another Residential District Simulator: yards for Controller Development in the Residential Built Environment</div>

Industrial Track

Tuesday, September 9th, 14:45 – 16:00

FMI and related

FMI for energy systems

Session Yellow: Forum

14:45

Karim Besbes

An innovative heterogeneous modeling approach to build a cooling system for battery thermal management with common fluid properties involving FMI terminals

15:10

*Sagnik Basumallik, Luigi Vanfretti,
Mohammad Ali Dashtaki, Ziang Zhang,
Reza Pourramezan and
Hossein Hooshyar*

Enhancing Large-Scale Power Systems Simulations through Functional Mockup Unit-based Grid-Forming Inverter Models

15:35

*Ruirui Zeng, Hui Gao, Wei Liu,
Lei Huang, Qi Liu, Jian Liu and
Xingjian Han*

Design and Simulation Validation of Steam Power Systems Based on MBSE

Industrial Users

Credible Simulation, Traceability, SSP

Session Black: 203

14:45

AVL List GmbH, Robert Bosch GmbH

Integration of systems engineering and simulation based on standards: The needs, challenges and solutions from an industrial perspective

15:10

*Robert Bosch GmbH, Dassault Systèmes AB,
eXXcellent solutions GmbH*

Towards a Credible System Simulation Architecture applicable to Heat Pump Systems using Modelica, FMI and SSP

15:35

*Robert Bosch GmbH, PMSF IT Consulting,
eXXcellent solutions GmbH*

Traceability and Support of Modeling & Simulation using SSP-Traceability Layered Standard

Scientific Track

Wednesday, September 10th, 09:15 – 10:30

General Modelica

Energy

Control & AI

Simulation and Optimization	Pumps and Vapor Compression	FMI for Embedded Systems and Virtual Prototyping
Session Red: 202	Session Green: Audi-Max	Session Blue: Audi-Midi
<p>09:15</p> <p><i>Francesco Casella, Bernhard Bachmann, Karim Abdelhak, Philip Hannebohm and Teus van der Stelt</i></p> <p>Diagnosing Newton’s Solver Convergence Failures in the Initialization of Modelica Models</p>	<p>09:15</p> <p><i>Raphael Gebhart, Martin Düsing, Niels Weber and Franciscus L. J. van der Linden</i></p> <p>Centrifugal Pump Model of the DLR ThermoFluid Stream Library</p>	<p>09:15</p> <p><i>Tom Reynaud, Erfan Enferad and Maxime Lefrancois</i></p> <p>Facilitating the use of Physics-Based Simulations on Embedded Devices by running FMUs from MicroPython</p>
<p>09:40</p> <p><i>Matteo Luigi De Pascali, Lorenz T. Biegler, Emanuele Martelli and Francesco Casella</i></p> <p>Modelica2Pyomo: a tool to translate Modelica models into Pyomo optimization models</p>	<p>09:40</p> <p><i>Jiacheng Ma and Matthias Thorade</i></p> <p>Frost/Defrost Models for Air-Source Heat Pumps with Retained Water Refreezing Considered</p>	<p>09:40</p> <p><i>Nils Bosbach, Meik Schmidt, Lukas Jünger, Matthias Berthold and Rainer Leupers</i></p> <p>FMI Meets SystemC: A Framework for Cross-Tool Virtual Prototyping</p>
<p>10:05</p> <p><i>Linus Langenkamp and Bernhard Bachmann</i></p> <p>Enhancing Collocation-Based Dynamic Optimization through Adaptive Mesh Refinement</p>	<p>10:05</p> <p><i>Scott Bortoff, Vedang Deshpande, Christopher Laughman and Hongtao Qiao</i></p> <p>A Dynamic Analysis of Refrigerant Mass in Vapor Compression Cycles</p>	<p>10:05</p> <p><i>Tobias Kamp, Christoff Bürger, Johannes Rein and Jonathan Brembeck</i></p> <p>Hybrid Simulation Models for Embedded Applications: A Modelica and eFMI approach</p>

Industrial Track

Wednesday, September 10th, 09:15 – 10:30

FMI and related

Workflows in Systems Engineering

Session Yellow: Forum

09:15

*Mark Williams, Hubertus Tummescheit,
Ajaykumar Mst and
Jose María Alvarez-Rodríguez*

The Fundamental Modeling Practices
and Specifications to support the
Preservation and Reuse of Analytical
Simulations

09:40

*Erik Rosenlund, Robert Hällqvist,
Robert Braun and Petter Krus*

Automation Nation: Taming Complex
V&V Workflows

10:05

*Christoph Steinmann,
Konstantin Wrede, Jens Schirmer and
Jens Lienig*

Integration of Geometric Tolerance
Analysis in System Simulations via
Functional Mock-up Units

Industrial Users

FMI Applications

Session Black: 203

09:15

Robert Bosch GmbH, DLR e.V.

Optimization with FMI and CasADi:
Analysis in Industrial Applications

09:40

DNV AS

Accuracy and assurance of co-simulations
in marine lifting operations

10:05

Renault

Optimizing Assemblies of FMUs

Scientific Track

Wednesday, September 10th, 11:00 – 12:40

General Modelica

Energy

Control & AI

Modeling Paradigms and Language Experiemnts	Energy Generation Systems	Control- and AI-based Methods with FMI for Automotive
Session Red: 202	Session Green: Audi-Max	Session Blue: Audi-Midi
11:00 <i>Gaadha Sudheerbabu, Dragos Truscan, Mikael Manngård and Kristian Klemets</i> Validation of Dynamic Simulation Models using Metamorphic Testing and Given-When-Then Patterns	11:00 <i>Inga Beyers, Lukas Krebeck, Astrid Bensmann and Richard Hanke-Rauschenbach</i> Modelling and Impact of Hydraulic Short Circuit Operation in Pumped Hydro Energy Storage	11:00 <i>Minsu Hyun</i> A Study on Vehicle Suspension Loads Prediction Method Based on Hybrid Road Simulation using Modelica Library and FMI
11:25 <i>Dirk Zimmer</i> The Value of Enforcing a Strict Modeling Methodology within Modelica	11:25 <i>Igor Belot, Francois Nepveu, Pierre Garcia, Nathan Fournier, Teddy Chedid, Etienne Letournel, Pierre Delmas, Alexis Gonnelle and Guillaume Raigné</i> Introducing the NewLib Library and its application to multi-level, large-scale solar field models	11:25 <i>Tobias Thummerer, Fabian Jarmolowitz, Daniel Sommer and Lars Mikelsons</i> Br(e)aking the Boundaries of Physical Simulation Models: Neural Functional Mock-up Units for Modeling the Automotive Braking System
11:50 <i>Christian Gutsche, Christoph Seidl, Volodymyr Prokopets, Sebastian Götz, Zizhe Wang and Uwe Assmann</i> Context-Oriented Equation-based Modeling in ModelingToolkit.jl	11:50 <i>Ao Zhang and Xiang Wang</i> Further Application of Modelica-Based Nuclear Power System Simulation: Tasks in Different Scenarios Driven by Model and Data	11:50 <i>Jonathan Brembeck, Ricardo Pinto de Castro, Johannes Ultsch, Jakub Tobolar, Christoph Winter and Kenan Ahmic</i> VDCWorkbench: A Vehicle Dynamics Control Test & Evaluation Library for Model and AI-based Control Approaches
12:15 <i>Zizhe Wang, Christian Gutsche and Uwe Assmann</i> Context-Oriented Modelica for Advanced Variability Management	12:15 <i>Joy El Feghali, Louis Garbay, Adrien Guironnet, Philibert Parquier, Marco Chiaramello, Martin Franke and Luka Plavec</i> An Open-Source Industrial-Grade Collection of Renewable Energy Source Generic Models in Modelica Language	12:15 <i>Zhiguo Zhou, Xuehua Zhou, Lin Du, Peiquan Ma, Xiang Wang, Ying Chen, Mingjia Liu, Tengyue Wang, Lixin Hui and Cun Zeng</i> Simulation of Embodied Cyber Physical System Based on Modelica/MWORKS: A Case Study of Intelligent Unmanned Surface Vessel

Industrial Track

Wednesday, September 10th, 11:00 – 12:40

FMI and related

Maritime Applications

Session Yellow: Forum

11:00

*Karl Gunnar Aarsæther and
Stian Skjong*

Shared sea-environment definition and realization for maritime and offshore co-simulations

11:25

*Severin Sadjina, Lars Kyllingstad and
Stian Skjong*

Decreasing Risk in the Design of Large Coupled Systems via Co-Simulation-Based Optimization and Adaptive Stress Testing

11:50

*Basilio Puente Varela,
Maria Dolores Fernández Ballesteros,
Maria Isabel Lamas Galdo and
Luis Carral*

ShipSIM: A Modelica Library for Ship Maneuverability Modeling and Simulation

12:15

*Boudewijn Van Groos, Alje Van Dam,
Carsten von Ohlen, Finn Theel,
Johannes Brunnemann and Jörg Eiden*

Modelica driven development of the thermal management control system for a zero emission yacht

Industrial Users

Modelica Applications

Session Black: 203

11:00

Danfoss AS, TLK Energy GmbH

Optimized usage of heat recovery potentials in modern liquid cooled data centers to minimize their environmental impact

11:25

Lince S.r.L.

Optimal Energy Management of a Biogas Plant Using Model Predictive Control and Forecast-Driven Optimization

11:50

Samsung Electronics

Development of scalable rule-based temperature feedback controls for energyefficient condenser water loops in semiconductor factories

Scientific Track

Wednesday, September 10th, 14:10 – 15:50

General Modelica

Energy

Control & AI

New Translation Methods and Tools	Fuel Cell Modeling and Control	Control Applications in Modelica
Session Red: 202	Session Green: Audi-Max	Session Blue: Audi-Midi
<div>14:10</div> <div>Benoît Caillaud, Albert Benveniste and Mathias Malandain</div> <div>Benchmarking the Modular Structural Analysis Algorithm</div>	<div>14:10</div> <div>Michele Bolognese, Emanuele Martinelli, Luca Praticò and Matteo Testi</div> <div>Dynamic modelling of an Ammonia to Power application at high efficiency using a solid oxide fuel cell system</div>	<div>14:10</div> <div>Alberto Leva</div> <div>On the precise and efficient representation of industrial controllers in Modelica</div>
<div>14:35</div> <div>Martin Otter and Hilding Elmqvist</div> <div>Resizable Arrays in Object-Oriented Modeling</div>	<div>14:35</div> <div>Emanuele Martinelli, Michele Bolognese, Nirmala Nirmala, Narges Ataollahi and Matteo Testi</div> <div>Direct Ammonia Solid Oxide Fuel Cell Stack: Modelling and Experimental Validation</div>	<div>14:35</div> <div>Rüdiger Franke, Marcin Bartosz and Rasmus Nyström</div> <div>Master controller for offshore wind power and hybrid grids</div>
<div>15:00</div> <div>Karim Abdelhak and Bernhard Bachmann</div> <div>Constant Time Causalization using Resizable Arrays</div>	<div>15:00</div> <div>Markus Pollak, André Thüring and Wilhelm Tegethoff</div> <div>Dynamic Simulation of a PEM Electrolysis System</div>	<div>15:00</div> <div>Reiko Müller</div> <div>The FlightControl library for aircraft control design applications</div>
<div>15:25</div> <div>Hilding Elmqvist and Martin Otter</div> <div>Modiator – A Web App for Modelica Simulation</div>	<div>15:25</div> <div>Axelle Hégo, Félix Bosio and Sylvain Mathonnière</div> <div>Model-Based Control Design for a Multi-Stacks SOC System</div>	<div>15:25</div> <div>Tilman Bunte and Jakub Tobolář</div> <div>Quasi-Periodic Feedforward Control Based on Inverse Model Tabled FFT</div>

Industrial Track

Wednesday, September 10th, 14:10 – 15:50

FMI and related

Automotive

Session Yellow: Forum

14:10

*Massimo Stellato, Alberto Momesso,
Theodor Ensbury and Alessandro
Picarelli*

Race Car Braking System Thermal
Model for Real Time Use in a Driving
Simulator

14:35

*Jaewung Jung, Alessandro Picarelli,
David Briant, Kadir Sahin,
Garron Fish, Victor-Marie Lebrun,
Christopher Stromberger,
Arnaud Colleoni and Quentin Prieto*

Development of a Multi-Physical
Simulation Platform for Durability
Prediction for Hyundai & Kia Electric
Vehicles

15:00

*Jan Friedrich Hellmuth, Markus Pollak,
Andreas Schulte, Wilhelm Tegethoff
and Jürgen Köhler*

Solid-State Battery-Systems and
Thermal Management for Electric
Long-Distance Buses

Industrial Users

Model-Based Workflows and SSP

Session Black: 203

14:10

DENSO Automotive, BMW Group

MBSE using SSP and SysML for Collaborative
Development: An Opensource ADAS Use Case

14:35

DENSO Automotive, PMSF IT Consulting

Transmission Control Unit Use Case for Virtual ECUs
and SSP-based Collaborative Development

15:00

Toshiba Digital Solutions Corporation

Cross-Company Collaborative Model-Based
Development using FMI3.0 and SSP2.0

15:25

MAN Energy Solutions

Neural Network-Based Reduced-Order
Model of a Large-Scale CO₂ Heat Pump for Real-Time
Simulation and Digital Twin Applications

Scientific Poster Presentations

Monday, Tuesday and Wednesday

Poster-Exhibition

<i>Philip Hannebohm and Bernhard Bachmann</i> Selective Evaluation of RHS during Multi-Rate Simulation	<i>Markus Gillner, Jan Westphal, Béla Wiegel, Tom Steffen, Julian Urbansky, Anne Hagemeier, Stefanie Ruppert, Annika Heyer, Jörn Benthin, Tim Hanke, Johannes Brunnemann, Christian Becker and Arne Speerforck</i> Status of the TransiEnt Library: Transient Simulation of Complex Integrated Energy Systems
<i>Gustavo Canon, Volodymyr Prokopets, Fabian Elizondo Arrieta, Eliécer Arias and Alexander Zeissler</i> A Thermal Digital Twin of Asphalt Pavements: Implementation and Application to an Instrumented Pavement in Costa Rica	<i>Carles Ribas Tugores, Gerald Zotter and Carina Seidnitzer-Gallien</i> Absolut Modelica library
<i>Micah Condie, Abigaile Woodbury, James Goppert and Joel Andersson</i> Rumoca: Towards a Translator from Modelica to Algebraic Modeling Languages	<i>Marcelo Muro, Guido Sassaroli and Riccardo Lazzari</i> MultiEnergySystem: A Modelica Library for Dynamic Modeling and Simulation of District Heating and Gas Networks
<i>Requirement Verification with CRML and OpenModelica</i> Requirement Verification with CRML and OpenModelica	<i>Christophe Montsarrat, Pascal Borel and Ana Paez</i> Calibration of a Chiller Modelica model with experimental data
<i>Songchen Tan, Keming Miao, Alan Edelman and Christopher Rackauckas</i> Scalable Higher-order Nonlinear Solvers via Higher-order Automatic Differentiation	<i>Pierre Blaud and Imad Mourtaji</i> A Dynamic Simulation Model of Outdoor Swimming Pool with Thermal Energy Storage, Boiler and Solar Thermal Collectors

*Joshua Brun, Thomas Sergi, Sylvan Mutter, Tim Arnold
and Ulf Christian Müller*

From Simulation to Reality: Deployment of Reinforcement
Learning-Based Neural Network Controllers Trained with
Modelica Models

A. Phong Tran and Fatma Cansu Yücel

Safe and Efficient Control of a Brayton Cycle Heat Pump
Using Reinforcement Learning

*Robert Weber, Staša Gejo, Rainer Gehring and
Lars Mikelsons*

Identification and Elimination of Instabilities During
Simulation of Highly Stiff Vehicle Electrical Power System
Models

*Mathieu Specklin, Elie Solai, Clémence Rouge and
Michael Deligant*

Dynamic modeling of a liquid piston compressor system
including conjugate heat transfer

*Fabian Lagerstedt, Samuel Kärnell, Marcus Rösth and
Liselott Ericson*

Modeling and Simulation of a Direct Heat Recovery
System for Cabin Heating in Battery-Powered Mobile
Machines

*Stefan H. Reiterer, Alexander Meierhofer, Ivan Vidovic,
Marco Forberger, Benjamin Stuntner and Jochen Nowotny*
Railway Marketplace for Data, Know-How and Services

*Simon Müller, Abdulrahman Dahash, Shariq Akbar,
David Schmitt, Peter Bayer and Tobias Schrag*
Integrating a Seasonal Thermal Energy Storage FMU
in a MATLAB/Simscape Thermal Source Network Model

*Alberto Romero, Johannes Angerer, Elias Steinkellner
and Luca Belforte*

A low complexity physics-based aging model for lithium
ion cells with solid electrolyte interphase and lithium
plating side-reactions

*Li Zuo, Yuanhui Dong, Shubin Zhang,
Yuxin Li, Haiming Zhang, Ji Ding, Fanli Zhou,
Qi Liu and Liping Chen*

Dynamic Simulation of Off-Grid Energy Island with
Wind-PV-Storage Hydrogen Production

*Bahareh Bakhsh Zahmatkesh, Mina Shahi and
Amirhoushang Mahmoudi*

Physics-Based Dynamic Modeling of Solar-Powered
Off-Grid Cold Storage for Perishables Using Modelica:
A Case Study – Xingalool, Somalia

Social Program

The conference dinner will take place on Tuesday, September 9, 2025, as an evening boat cruise on Lake Lucerne aboard the MS Diamant. Where you can enjoy a relaxed evening on the lake with dinner, drinks, and beautiful views of the surrounding mountains.



Boarding begins at 18:00 at Luzern KKL landing stage 5 or 6, located right next to Lucerne's main train station in the city center. The ship will depart at 18:30 and return to the same location at 22:30. Guests may remain on board until 23:00.

Please note that participants are responsible for arranging their own transportation from the conference venue in Rotkreuz to the boat departure point in Lucerne and for arriving on time.

Practical Information

Registration Desk

The registration desk opens on Monday, September 8, 2025, at 11:30 and remains open throughout the entire conference.

Conference Website & App



All updated conference information can be found at the website



Conference App

The conference program, papers, and abstracts will be available in the web application

Conference Venue Location

The conference will be held at the Rotkreuz campus of the Lucerne University of Applied Sciences and Arts. The campus is located directly next to the Rotkreuz train station and is easily accessible by public transport.

Hochschule Luzern
Suurstoffi 1
6343 Rotkreuz
Switzerland

WIFI Connection

Campus guests log in using the “public” network and authenticate the connection via text message (guides available for macOS / Windows).



macOS



Windows

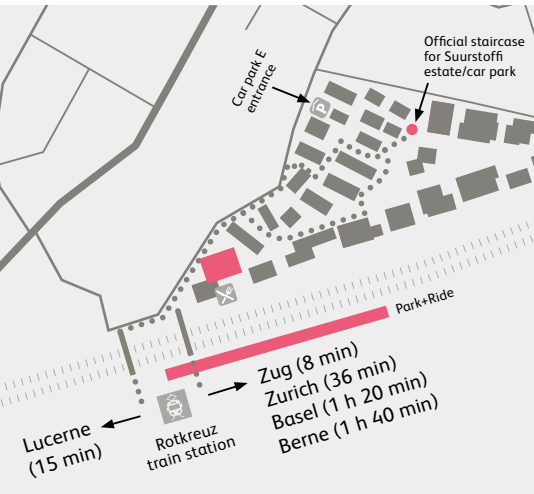
Students and members of other universities can use the “eduroam” network, provided their home institution supports it.

Parking

We recommend traveling by public transportation, as parking in the vicinity of the conference venue is limited and subject to relatively high fees.

Public Transportation (Recommended)

We recommend arriving by train. The campus is a 3-minute walk from Rotkreuz station, which can be reached from Lucerne in as little as 13 minutes.



To plan your journey and purchase tickets, we recommend using the official SBB app (Swiss Federal Railways), available on Google Play and the App Store. It is the most popular way to navigate public transport in Switzerland and provides real-time schedules, ticketing options, and service updates. The app also supports local transportation such as buses and boats in cities across Switzerland, including Lucerne and Zurich.



More information

HSLU offers a small number of paid parking spaces on the Suurstoffi site at the Parking Garage E (access via Birkenstrasse, Suurstoffi 29), approximately a 5-minute walk from the conference venue. Please follow the signage and only use the designated paid parking spaces in the rear section E2.

On the opposite side of the train station, the Swiss Federal Railways (SBB) operates a Park & Ride facility. Payment is possible via mobile app only.

For special train offers related to Swiss round trips or tourism, we recommend contacting local tourist offices for guidance.

Voltage

Electricity in Switzerland is 230 Volts at 50 Hertz. The power sockets used are Plug Type C (2-pin) and Type J (3-pin). Non-grounded European 2-pin plugs usually fit both socket types. However, compatibility is not guaranteed, as the European prongs are slightly bigger. Other plugs than the European 2-pin ones will mostly not fit, an adapter is needed.

Emergency Numbers

112 – European Emergency Number
(Police, Fire Service, Emergency Medical Service)

International Dialing Code
for Switzerland: +41

Tourist Information

For more information about Switzerland or Lucerne, visit:



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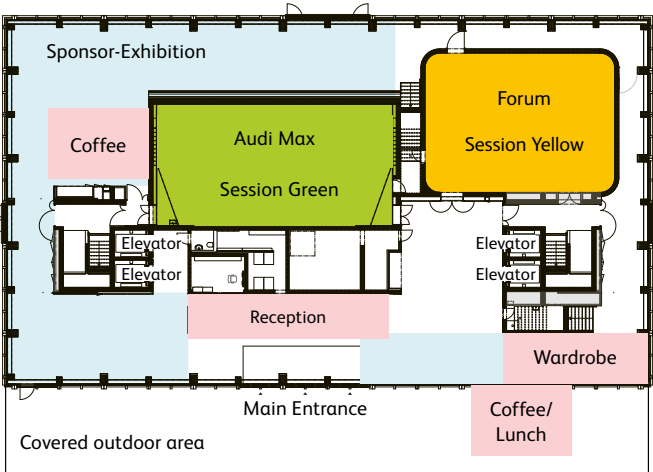


luzern.com

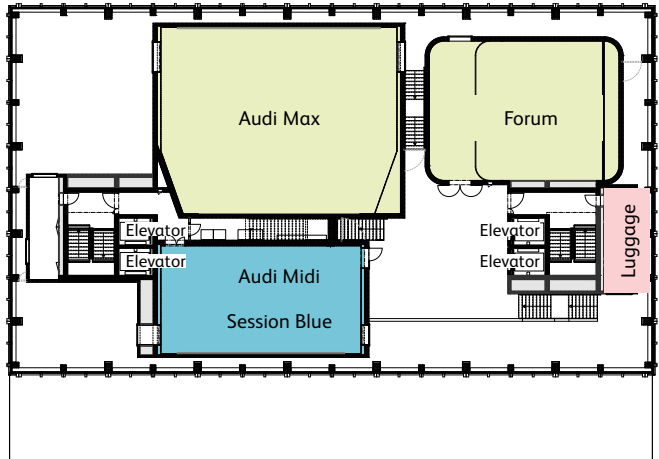
Site Plan

Ground floor

← 2 min Rotkreuz train station



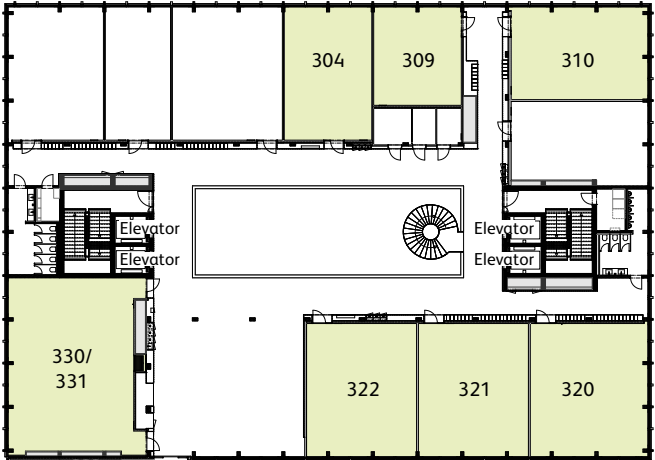
1st floor



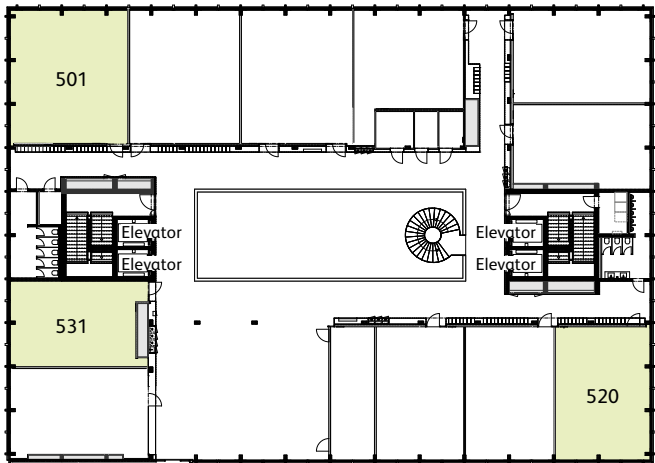
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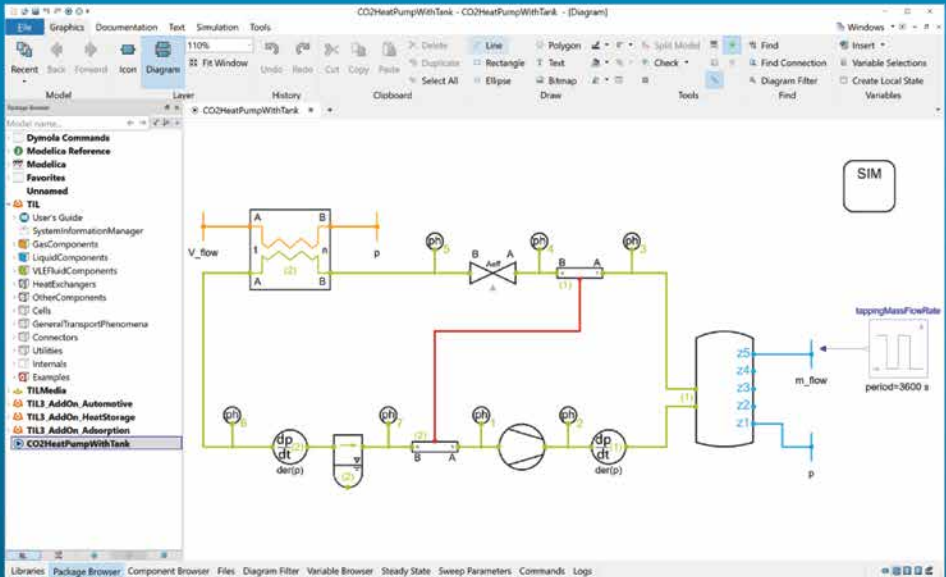


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MWORKS.Sysblock: Extends Modelica with block and state machine modeling

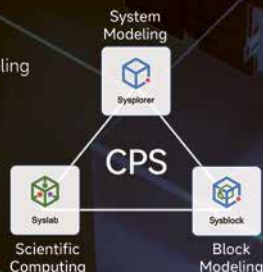
Provides visual modeling/simulation/post-processing; supports code generation, debugging, bidirectional model-code traceability.

MWORKS.Syslab: Julia-based scientific computing IDE

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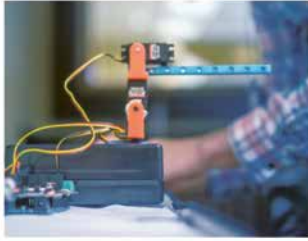
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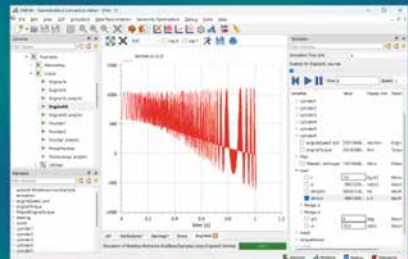


OpenModelica

Open-source modeling & simulation

OpenModelica is intended for industrial and academic usage. Its development is supported by the non-profit Open Source Modelica Consortium (OSMC).

- ✓ Full Modelica language
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- ✓ Python, MATLAB, Julia scripting
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Engineering
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Conference Website & App



All updated conference information can be found at the website



Conference App

The conference program, papers, and abstracts will be available in the web application

Conference Survey

We value your opinion! Share your impressions of the 16th International Modelica & FMI Conference in our survey, opening Tuesday, September 9.



Thank you
for your feedback