



# 16<sup>th</sup> Modelica & fmi Conference

## CALL FOR PAPERS

for the 16th International Modelica & FMI Conference

in Lucerne, Switzerland from **September 8-10, 2025**

organized by HSLU and the Modelica Association

### Topics

- Multi-engineering modeling and simulation with free or commercial Modelica libraries
- Library Award for new Open-Source Modelica Libraries.
- Applications and new tool developments for the Functional Mock-up Interface (FMI) and Layered Standards (LS)
- Applications and new tool developments for the System Structure and Parameterization (SSP) standard
- Applications and new tool developments for the FMI for embedded Systems (eFMI) standard
- System Simulation as an integrative part of Model-based Systems Engineering (MBSE)
- Machine Learning and AI in system simulation
- Automotive applications
- Applications in thermodynamic, energy systems and building physics
- Mechatronics and robotics applications
- Medicine and biology applications
- Maritime and offshore applications
- Other industrial applications, such as electric drives, power systems, aerospace, etc.
- Large-scale system modeling and simulation code generation for parallel computing architectures
- Real-time and hardware-in-the-loop applications; Code generation for embedded control systems
- Use of Artificial Intelligence (AI) methods in simulation; SimToReal for AI training purposes
- Applications of Modelica and FMI for optimization and control design
- Modelica modeling, simulation and design tools
- Symbolic algorithms and numerical methods for model transformation and simulation
- Experimental language designs and implementations related to Modelica standards
- Modelica in other application areas (mathematical programming, databases etc.)
- Modelica for teaching and education

### Timeline

January 6, 2025	Call for papers
April 17, 2025	Deadline for scientific paper submissions
June 1, 2025	Deadline for Industrial User Presentations, Workshops, Tutorials
August 1, 2025	Final material submission
September 8-10, 2025	16 <sup>th</sup> International Modelica & FMI Conference

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<https://modelica.org/events/modelica2025/>