

Call for Paper Submissions

Dear Modelica Users-

We are pleased to announce the 2nd Japanese Modelica Conference (Modelica 2018 Japan). The Conference will take place in Tokyo on May 17-18, 2018. We hope that you can join us for this exciting event that will bring Modelica users across Japan and Asia together. We are working to confirm a venue and will pass the exact location along to you soon.

In the intaim, we are opening the Call for Paper for this event. You are encouraged to submit a **full paper** of at least 4 pages with a maximum of 10 pages, on the following topics:

- Multi-engineering modeling and simulation with free and commercial Modelica libraries (mechanics, electrical, hydraulics, thermal, fluid, media, chemical, building, automotive, aircraft, etc.)
- Automotive applications
- Thermodynamic and energy systems applications
- Mechatronics and robotics applications
- Medicine and biology applications
- Other industrial applications, such as electric drives, power systems, aerospace, etc.
- Large-scale system modelling
- Real-time and hardware-in-the-loop simulation
- Simulation and code generation for embedded control systems
- Simulation acceleration by use of many CPU cores or GPU cores
- Applications of Modelica for optimization and optimal control
- Modelica modeling, simulation and design tools
- Symbolic algorithms and numerical methods for model transformation and simulation
- Discrete modeling techniques – FEM, CFD, DEM (Discrete Element Method), etc.
- New features of the Modelica language and of FMI
- Experimental language designs and implementations related to Modelica
- Modelica in other application areas (mathematical programming, databases, etc.)
- Modelica for teaching and education
- FMI in Modelica and non-Modelica applications and tools

For the 2nd Japanese Modelica Conference, which will be held on May 17th and 18th in Tokyo, a new category of paper named 'industrial paper' was created. **'Industrial paper'** should be more

than two pages. Such type of paper may consist of only the introduction of a new tool / library and its application. The purpose of the 'industrial paper' is to let the audiences have an actual image and knowledge about using the tool / library. It is highly encouraged for Modelica and FMI tool vendors and their users to submit not only the normal papers but also the industrial papers.

The full paper and Industrial paper in PDF format should be submitted to through the EasyChair Conference Management System.

<https://www.easychair.org/conferences/?conf=modelica2018japan>

Please see [Author's Guide](#) for further information. The final paper has to be submitted together with a one-page abstract.

The authors of the 10% top papers submitted to the conference will be invited to submit an extended version after the Conference, for inclusion in a special issue of an open-access, ISI-referenced journal. Please note that the extended papers will undergo a full peer-review process which is independent of the one of the Modelica Conference.

The conference proceedings will be published in the open access series. Authors (as well as editors and reviewers) are required to fulfill the [Publication Ethics and Malpractice Statement](#) of this series.

Please note the important dates below regarding the deadlines associated with submitting and presenting a paper at the conference.

February 8, 2018	Submission of full papers
March 1, 2018	Notification of acceptance
April 15, 2018	Submission of final papers

The exact schedule of the conference is yet to be determined, but the preliminary plan is to have the conference with the target of 20-40 presented papers and 2 keynote speeches. For all oral presentations, there will be direct translations which means that the presenter is free to choose either Japanese or English language.

We hope that you can join us for this exciting event in May 2018.

Best regards,

Conference chair: Sameer Kher (ANSYS)

Program chair: Dr. Yutaka Hirano (Toyota Motor Corporation)