Advanced topics on modeling and numerical simulation of systems

Dear Sir or Madam,

TLK Thermo GmbH offers a one-day training course regarding advanced topics on modeling and numerical simulation of systems.

The training course includes the following:

- Introduction to the theory of linear differential equations
- Numerical solution of differential algebraic equations (DAE)
- Handling of discontinuities in model equations (events, hybrid DAE)
- Advanced Modelica language elements: homotopy operator, stream connector

During the training course, the participants directly apply the learned theory to examples of Modelica models.

Dr. Wilhelm Tegethoff and Dr. Christian Schulze will teach the course and assist the participants during the practical exercises.

After the training course the participants will have a deeper understanding of dynamic systems (differential equations) and state-of-the-art algorithms for numerical solution of hybrid DAE. This knowledge enables the participants to formulate fast computational models in Modelica or any other system simulation language and solve performance issues of existing models.

The training course takes place in Braunschweig, beginning 8:00 am and ending 5:30 pm. It is preferred that participants bring their own laptop for the training.

University students as well as PhD candidates receive a discount upon request. Included in the training fees are the course notes as well as lunch, drinks and snacks during the breaks.

In the case that you are interested in the training and would like to learn more about the content of the training course, do not hesitate to contact me.

Best regards,

Christian Schulze and Wilhelm Tegethoff

Contact.
Dr.-Ing. Wilhelm Tegethoff / TLK-Thermo GmbH, Hans-Sommer-Straße 5, 38106 Braunschweig, Germany
Phone. +49/531/390 76-11 / w.tegethoff@tlk-thermo.de / www.tlk-thermo.de