

CALL FOR PAPERS

Automated Modeling

2003 ASME International Mechanical Engineering Congress and Exposition

November 16-21, 2003, Washington, D.C.

Sponsored by the ASME Dynamic Systems and Control Division

The *Modeling and Identification Committee* of the ASME Dynamic Systems and Control Division is sponsoring a symposium on automated modeling. Automated modeling seeks computer algorithms and tools to assist engineers in developing mathematical models to meet engineering objectives such as design optimization or controller design. Ideally, an automated modeling system will allow design engineers to readily synthesize design models, rather than relying on an engineering analyst for the models.

This symposium is part of a series devoted to modeling and simulation that has been taking place at the IMECE for more than ten years. The symposium brings together researchers and practitioners in the areas of physical system modeling, bond graphs, DAEs, and qualitative reasoning to exchange ideas, develop common vocabulary, and promote cooperative research projects. Model applications include automotive, manufacturing, transportation, MEMS, and aerospace. The topics may include, but are not limited to:

- model synthesis
- model assembly
- model reduction
- model validation
- modeling metrics
- modeling/design interdependence
- modeling/control interdependence
- computer environments for modeling

We invite you to submit a manuscript for consideration for this session. Please send extended abstracts of 350-500 words to the session chair describing the focus and intent of the paper including a brief problem description, results, and conclusions. For electronic submissions, please submit PDF files or MSWord documents.

January 6, 2003: Extended abstract due. Please submit via email.

February 3, 2003: Complete manuscript due for review, equivalent to no more than eight, two-column, proceedings pages. Please submit via email. All submissions are peer-reviewed.

March 31, 2003: Authors are notified of final paper acceptance.

June 30, 2003: Tentative date for submission of final manuscript. ASME conference-paper templates are available at www.asme.org/pubs/autguides.html.

Session chair:

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