

Call for Case Studies

Joint Special Session (at ICGT 2002) on Domain-Specific Case Studies for Visual Modeling Techniques

Motivation

In the research on visual modeling techniques, a number of different languages and methods with different focus compete with each other, and with more classical specification techniques. All too often, however, justifications of individual approaches are based on small toy examples which are not, in general, representative of the problems found in practice and are likely to favor the technique being advocated, thus preventing fair evaluation. The serious consequences for the credibility and progress of the field are self-evident. Therefore, a more realistic evaluation of the strengths, weaknesses, and complementarity of different visual modeling techniques is required which takes into account the particular needs of specific classes of problems or modeling aspects.

This session aims at providing a forum to propose and discuss case studies for the evaluation of visual modeling techniques. Once a set of such case studies has been agreed upon, a call shall be issued to invite interested researchers to approach these case studies with their favorite techniques and tools.

On the basis of the submissions, it shall be possible to compare different visual modeling techniques, point out their complementarity, and serve as a basis for combining and integrating different techniques and tools.

Context

These activities shall be part of the work proposed for the SegraVis research training network under the objective *D*, which aims to employ and improve visual modeling techniques in specific application domains, including (but not limited to)

- D1. modeling support for software evolution and refactoring
- D2. modeling of component-based software architectures
- D3. specification of applications with mobile soft- and hardware

This special session of the First International Conference on Graph Transformation (ICGT 2002) in Barcelona is a joint activity of the co-located workshops on *Graph Transformation and Visual Modeling Techniques* and on *Software Evolution Through Transformations*. The session shall be open to all participants of the ICGT conference and its workshops.

Submissions

Presentations are invited on the basis of submissions to the following questionnaire. The questions can be answered either one by one, or in the form of free text of up to two pages with reference to the questions. Submissions should be sent electronically by e-mail to Reiko Heckel (reiko@upb.de). Extended abstracts of accepted submissions will be published in the workshop proceedings of one of the two workshops.

Domain information.

1. How do you define the domain of your case study? (Give a combination and/or specialization of D1 - D3, or define your own domain.)
2. What are typical problems in this domain for which visual modeling techniques could provide solutions?
3. Which techniques (visual or not) have been either suggested or successfully applied to solve these problems in this domain?

Information on the case study.

1. What is your case study? (Please give a name and a short description.)
2. What are the specific problems demonstrated by your case study?
3. Which language concepts / semantic features are required by your example?
4. Which of the SegraVis meta-level objectives do you consider as relevant? (Please give a combination or specialization of *syntax and well-formedness* (M1), *static and dynamic semantics* (M2), *analysis and verification of models* (M3), *modularity, refinement, and transformation of models* (M4), *the integration of visual modeling techniques both at the syntactic and at the semantic level* (M5), as well as *integrated meta CASE tool support* (M6).)
5. Where does your case study originate from (industry, scientific community, ...)? What kind of data is available? (Source code, design models, architectures, etc.) Give pointers.
6. Why do you consider your case study realistic / representative for the domain you have specified.
7. Has it been used as a case study before? Give pointers.

Feel free to add supplementary material to detail any of your answers.

Important dates

Submissions to questionnaire: June 15, 2002

Notification of acceptance: July 15, 2002

Camera-ready version due: September 5, 2002