

A CSCW Management for Model-Based Libraries

Time duration: 6 Months

Project Description:

The main task in this diploma work is to evaluate the computer supported concurrent working (CSCW) methodology in the design flow for model-based systems using the SyAD (System Architecture Designer) environment. Thus, the applied CSCW methodology should be able to handle conflicts that can occur in library management systems in a case of that users are working simultaneously on the same project. Furthermore, the library management should provide a version controlling system, which ensures seamless tracking of user activities on projects. The concept of the currently available library should be reconsidered so that the proposed CSCW methodology can be applied on the SyAD system.

SyAD is an EDA tool developed at the Institute for Technical Informatics (ITI) at the Graz University of Technology in cooperation with the company CISC Semiconductor Design + Consulting GmbH. SyAD is a multi-HDL (Hardware Description Language) design tool for automatic setup of a verification platform for heterogeneous system designs. Following subtasks are to fulfill in this diploma work:

- Literature research and introduction into SyAD design flow.
- Concept planning for the integration of a CSCW methodology into the SyAD environment.
- Implementation of the developed CSCW methodology.
- Integration of the CSCW methodology into SyAD.
- Evaluation of the implemented CSCW methodology.
- Documentation.

Desired skills:

- Java programming language

For more details about this and/or other projects/theses please, take a contact.

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