2002 DOCTORAL WORKSHOP

GENERAL INFORMATION

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BRIEF DESCRIPTION OF REASEARCH TOPIC
Although object-oriented software development has experienced the benefits of using frameworks, a thorough understanding of how to change them to meet evolving requirement needs is still object of research. Framework development is very expensive, not only because of the intrinsic difficulty related to capture the domain theory, but also because of the lack of appropriate methods and techniques to support the evolution and redesign of the framework architecture. In this work we propose the use of refactoring and unification rules to assist framework evolution. We describe how the evolution process may be formally verified and checked on the basis of the formalization of the framework properties.

KEYWORDS AND PHRASES:
Object-oriented frameworks, framework redesign and evolution, refactorings, unification rules.