

TESTING-BASED CONCEPTUAL SCHEMA VALIDATION IN A MODEL-DRIVEN ENVIRONMENT



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PROS
Centro de Investigación en Métodos de Producción de Software

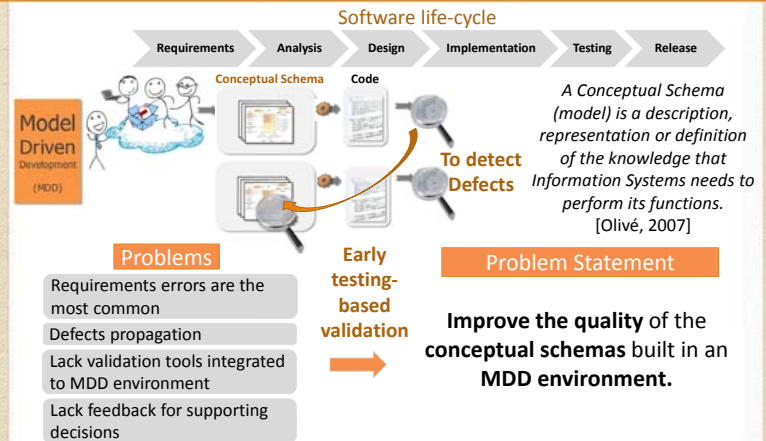
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MODEL DRIVEN DEVELOPMENT (MDD)

MDD is being used in a wide range of systems (e.g. telecommunications, business, defense/aerodynamics/avionic, web) [Mohagheghi and Dehlen, 2008].

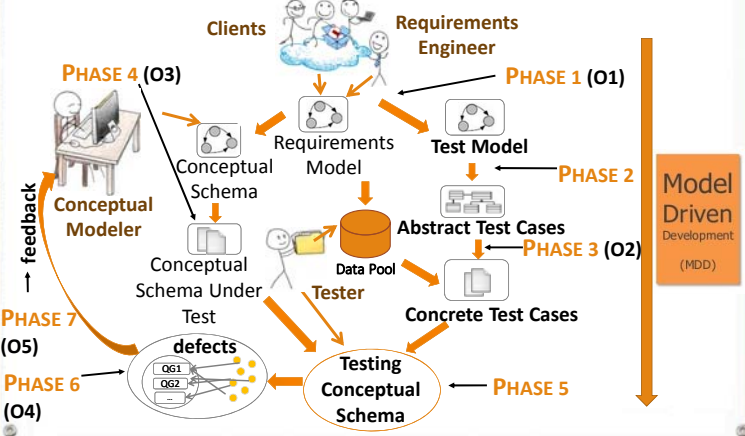


WHAT IS THE PROBLEM?



WHAT IS OUR PROPOSED APPROACH?

TESTING-BASED VALIDATION OF THE CONCEPTUAL SCHEMAS



OBJECTIVES

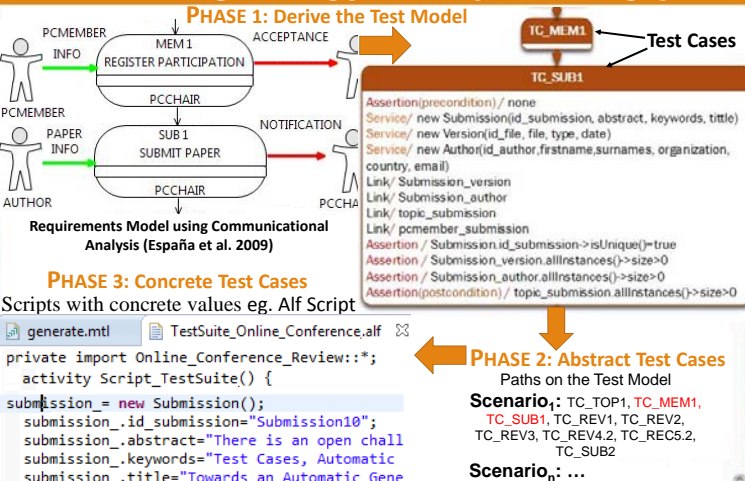
GENERAL

Design a testing-based validation approach to improve the semantic quality of conceptual schemas built in an MDD environment.

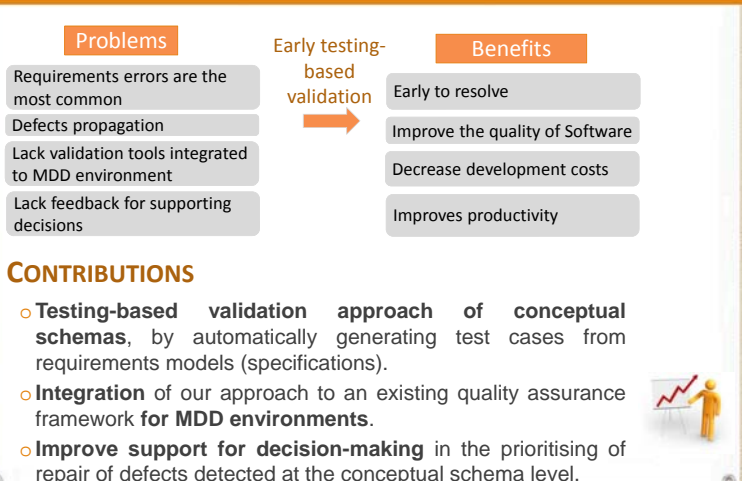
SPECIFICS

- **O1**: Define derivation rules which can produce the test model from a requirements model.
- **O2**: Concretize abstract test cases obtained from the model.
- **O3**: Define a process to derive a conceptual schema under test considering a MDD environment.
- **O4**: Select quality properties and defect types to be covered with the proposed solution.
- **O5**: Derivate the feedback and the defect report.

AN EXAMPLE: ONLINE CONFERENCE REVIEW SYSTEM



BENEFITS AND CONTRIBUTIONS



More Information

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