

Checking UML diagrams using model checking techniques

Nguyen Thi Ngoc

Abstract: This topic focuses on developing a system for automating the verification process of UML diagrams through the application of model checking methods. In the context of increasing demands for software quality, ensuring accuracy and consistency in UML design becomes more important. The objective of the research is to build a technical support solution that helps minimize design errors at an early stage by automating UML tests. The research method combines theory with experimentation to provide practical insights for the software development process. The expected results will pave the way for improving the quality of UML design and increasing efficiency in the system development process.

Keywords: UML testing, Model verification, High-tech software