

MODELING AND TESTING WEB APPLICATIONS BY USING A REDUCED NUMBER OF WEB PAGES

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Abstract

Web applications use a large number of web pages, an aspect which slows down the process of modeling and testing. In this paper we present a modality of combining results regarding the similarity of web pages from a constructive point of view with the way of partitioning finite state machines used at the specification of the web applications. These results allow us to simplify the way of modeling and specification of web applications, thereby test sequences can be obtained with more efficient algorithms than using the specification by finite state machines for the web application in its integrality. The way of determining the similarity of web pages from a constructive point of view is based on the verification of the tags from the source code using text processing algorithms such as the editing distance or common substring of characters.

Keywords: HTML; FSM; IUT; Similarity; Testing; Web Application