

Haydar, M., Sahraoui, H. and Petrenko, A. "Specification Patterns Formal Web Verification" In *Proceedings of the 8th International Conference on Web Engineering (ICWE 2008)*, pp. 240-246. Yorktown Heights, New York, July 14-18, 2008.

Abstract

Quality assurance of Web applications is usually an informal process. Meanwhile, formal methods have been proven to be reliable means for the specification, verification, and testing of systems. However, the use of these methods requires learning their mathematical foundations, including temporal logics. Specifying properties using temporal logic is often complicated even to experts, while it is a daunting and error prone task for non-expert users. To assist web developers and testers in formally specifying web related properties, we elaborate a library of web specification patterns. The current version of the library of 119 functional and non-functional patterns is a result of scrutinizing various resources in the field of quality assurance of Web Applications, which characterize successful web application using a set of standardized attributes.