

This document provides a description of the content of this shared folder, which contains the replicability package and additional data for the ICST 2020 paper

P. X. Mai, F. Pastore, A. Goknil and L. Briand, "Metamorphic Security Testing for Web Systems," 2020 IEEE 13th International Conference on Software Testing, Validation and Verification (ICST), 2020, pp. 186-197, doi: 10.1109/ICST46399.2020.00028.

In the following we provide a list of files with their description:

- **CatalogOfMetamorphicRelations.pdf** Catalog with 22 metamorphic relations in SMRL
- **SMRL-BooleanOperators-WebSpecificFunctions-DataFunctions.pdf** Description (JavaDoc) of the BooleanOperators, WebSpecificFunctions, and DataFunctions that are implemented in the class `smrl.mr.language.Operations`.
- **eclipseSMRL_Linux_x64.ICST2020.tar.gz** Eclipse IDE version 2018-09-r with the SMRL editor plugins installed. This version of Eclipse runs on Linux x64. You can install on a virtual machine.
- **RQ1.xlsx** Sheet with a detailed analysis of the OWASP security testing activities.
- **EclipseProjectSMRL.zip** Eclipse workspace containing all the MRs and a Junit test case that enables to replicate the empirical evaluation.
- **latestJenkins2_121_1.ova** Virtual machine with Jenkins installed on it. You need to start this VM in order to replicate the results.
- **InstructionsToReplicateRQ2.pdf** Document with the instructions to replicate the empirical evaluation done for RQ2.
- **RQ2-InstructionsToRunCrawler.pdf** Document with the instructions to run our modified version of `crawljax` to collect the source inputs that we used for RQ2.
- **RQ2-ExecutionLogs.pdf** Document with a description of the logs generated by our framework during the evaluation done for RQ2.
- **slave.ova** additional VM to be used to test Jenkins with a slave