

Dear Reviewers of the Artifact Evaluation Track,

We are applying for the badges of (1) Evaluated - Functional, (2) Evaluated - Reusable, and (3) Available for our proposed replication package.

We state why we believe that our artifact deserves each badge as follows:

(1) Evaluated - Functional

Our artifact includes complete documentation to guide users to reproduce our approach from environmental setup to experiment reproduction, which can be viewed here (<https://github.com/awsm-research/VulRepair>).

Furthermore, we prepare documentation for each model included in our experiment that is ready to use, the user can copy and paste the commands to reproduce the model of their interests. An example can be viewed here (https://github.com/awsm-research/VulRepair/tree/main/M1_VulRepair_PL-NL).

Last but not least, all of our documentation follows the same style of presentation to make it easy to follow.

We present evidence of our VulRepair (our proposed model) for verification and validation as follows:

1. VulRepair model training log.
(https://github.com/awsm-research/VulRepair/blob/main/M1_VulRepair_PL-NL/train.log)
2. raw predictions on testing data generated by our proposed model.
(https://github.com/awsm-research/VulRepair/blob/main/data/VulRepair_raw_predictions/vulrepair_raw_preds_for_cve_fixes_test.csv)

(2) Evaluated - Reusable

As mentioned in “**(1) Evaluated - Functional**”, we hope the quality of our artifact exceeds the minimal functionality of a replication package. We also promise to maintain the package by regularly checking out new issues and pull-requests to facilitate the community in reproducing our experimental results.

(3) Available

We open-source our artifact in a public Github repository under an MIT license, which can be viewed here (<https://github.com/awsm-research/VulRepair>).

We immensely appreciate all reviewers spending efforts reviewing our artifact proposal and wish you a lovely day.