

Dear Editor and Reviewers,

We would like to submit the paper *"Reducing the Discard of MBT Test Cases"* for consideration to the Journal of Software Engineering Research and Development. This submission comes from an invitation after previous work had ranked among the five best papers of the *XXXIII Brazilian Symposium on Software Engineering Research Track* :

- Diniz, Thomaz, Everton LG Alves, Anderson GF Silva, and Wilkerson L. Andrade. *"Reducing the Discard of MBT Test Cases using Distance Functions."* In *Proceedings of the XXXIII Brazilian Symposium on Software Engineering*, pp. 337-346. 2019.

In the current submission, we extend this work by including the following novel contributions:

- An empirical study using real industrial projects that investigate the practical impact of model evolution in MBT suites (Section 4).
- An automatic strategy based on machine learning and distance functions for classifying test cases and model change impact (Section 7).
- A more comprising related work section (Section 9).

We would like to thank you in advance for the time you will spend in reviewing the paper and for your comments.

Yours sincerely,

Thomaz Diniz, Everton L. G. Alves, Anderson G. F. Silva, and Wilkerson L. Andrade