**QUALITY APPRAISAL**

**Reviews/Surveys/SLRs**

**Q1: Is the methodology and literature search of the review systematic and documented? Are all relevant studies at the time likely to be covered?**

* **1.0**: Yes, in comprehensive detail, systematic and good quality. To be (re)classified as SLR.
* **Not Graded**: No, to be (re)classified as a survey.

**Q2: Does the study focus on work about regression test case selection or prioritization or minimization?**

* **1.0**: Yes, the research topic is closely related and covers major parts of this work.
* **0.6**: It covers related topics, but important areas differ or are missing.
* **0.3**: Some similar areas are covered.
* **0.0**: The review focuses on different research topics, only a very small part is related.

**Q3: Does the study cover the evaluation of regression test case selection or minimization or prioritization techniques?**

* **1.0**: Yes, the work includes a survey, evaluation and detailed description of vulnerabilities including classifications.
* **0.6**: Descriptions or classifications of certain vulnerabilities are given, but it is not a major focus of the work.
* **0.3**: Some vulnerabilities are superficially listed or mentioned.
* **0.0**: No, the focus is not on the survey of vulnerabilities.

**Q4: How many tools or analysis/verification methods does the review identify, classify, compare or evaluate?**

* **1.0**: more than 12
* **0.6**: 8 to 12
* **0.3**: 4 to 7
* **0.0**: less than 4

**Q5: Did the author(s) assess and compare the quality/validity of tools or automated regression test case selection or prioritization or minimization approaches in detail?**

* **1.0**: Yes, in detail and high quality, including practical experiments or comprehensive/in-depth coverage and classification.
* **0.6**: Yes, compared/evaluated in some detail, but only theoretically.
* **0.3**: Only superficial description.
* **0.0**: No.

**Q6: How current is the review?**

* **1.0**: 2023/2025
* **0.6**: 2019/2022
* **0.3**: 2016/2019
* **0.0**: 2012/2015

**Primary Studies**

**Q1: Is the PS referenced in a selected SLR or survey? How often is it cited according to Google Scholar?**

* **1.0**: referenced in selected SLR or Survey, or cited more than 12 times according to Google Scholar.
* **0.6**: 8 to 12 citations
* **0.3**: 4 to 7 citations
* **0.0**: less than 4 citations

**Q2: Is the PS related to a new approach for regression test case selection or prioritization or minimization?**

* **1.0**: Yes
* **0.0**: No

**Q3: Were the research objectives stated precisely?**

* **1.0**: Yes, design and research question described
* **0.5**: Partly, design described but not the research question
* **0.0**: No, none of design or research questions

**Q4: Was the experimental strategy appropriately designed?**

* **1.0**: Yes, the design is described with threats to validity
* **0.5**: Partly, the design is described but threads to validity not
* **0.0**: No, there is no design neither threads to validity