**A survey on the effectiveness of methods for evaluating the maintainability of SOFL specifications**

Response ID: 03

\* 1. What is your current occupation?

Teacher

\* 2. Please rate the following aspects of the Lines of Expressions (LOE) metric

  (1)The definition of this metric is clear and easy to understand

  Strongly Agree  （ 5）

  (2)This metric effectively captures an important aspect of maintainability

  Strongly Agree  （ 5）

  (3)This metric is theoretically and practically justifiable

  Neutral  （ 3）

\* 3. Please rate the following aspects of the Number of Processes (NOP) metric

  (1)The definition of this metric is clear and easy to understand

  Strongly Agree  （ 5）

  (2)This metric effectively captures an important aspect of maintainability

  Neutral  （ 3）

  (3)This metric is theoretically and practically justifiable

  Strongly Agree  （ 5）

\* 4. Please rate the following aspects of the Number of Control Data Flows (NOCDF) metric

  (1)The definition of this metric is clear and easy to understand

  Strongly Agree  （ 5）

  (2)This metric effectively captures an important aspect of maintainability

  Strongly Agree  （ 5）

  (3)This metric is theoretically and practically justifiable

  Strongly Agree  （ 5）

\* 5. Please rate the following aspects of the Cyclomatic Complexity (CC) metric

  (1)The definition of this metric is clear and easy to understand

  Strongly Agree  （ 5）

  (2)This metric effectively captures an important aspect of maintainability

  Strongly Agree  （ 5）

  (3)This metric is theoretically and practically justifiable

  Strongly Agree  （ 5）

\* 6. Please rate the following aspects of the Module Halstead Volume (MHV) metric

  (1)The definition of this metric is clear and easy to understand

  Strongly Agree  （ 5）

  (2)This metric effectively captures an important aspect of maintainability

  Neutral  （ 3）

  (3)This metric is theoretically and practically justifiable

  Strongly Agree  （ 5）

\* 7. Please rate the following aspects of the Number of Data Stores Used (NODSU) metric

  (1)The definition of this metric is clear and easy to understand

  Strongly Agree  （ 5）

  (2)This metric effectively captures an important aspect of maintainability

  Strongly Agree  （ 5）

  (3)This metric is theoretically and practically justifiable

  Strongly Agree  （ 5）

\* 8. Please rate the following aspects of the Extensiveness of Comments (EOC) metric

  (1)The definition of this metric is clear and easy to understand

  Strongly Agree  （ 5）

  (2)This metric effectively captures an important aspect of maintainability

  Disagree  （ 2）

  (3)This metric is theoretically and practically justifiable

  Disagree  （ 2）

\* 9. Please rate the following aspects of the Extensiveness of Blank Lines (EOBL) metric

  (1)The definition of this metric is clear and easy to understand

  Strongly Agree  （ 5）

  (2)This metric effectively captures an important aspect of maintainability

  Neutral  （ 3）

  (3)This metric is theoretically and practically justifiable

  Strongly Agree  （ 5）

\* 10. Does the complete set of metrics collectively address the main facets of maintainability

Strongly Agree（ 5）

\* 11. Case1-Random Scenarios

SYSTEM\_COURSE\_REGISTRATION

\* 12. Case 1 — Please indicate your level of agreement with the following statements

  (1)The tool-generated overall maintainability rating accurately reflects the maintainability of this module

  Agree  （ 4）

  (2)The LOE score produced by the tool is appropriate for this module

  Agree  （ 4）

  (3)The NOP score produced by the tool is appropriate for this module

  Agree  （ 4）

  (4)The NOCDF score produced by the tool is appropriate for this module

  Agree  （ 4）

  (5)The CC score produced by the tool is appropriate for this module

  Agree  （ 4）

  (6)The MHV score produced by the tool is appropriate for this module

  Agree  （ 4）

  (7)The NODSU score produced by the tool is appropriate for this module

  Agree  （ 4）

  (8)The EOC score produced by the tool is appropriate for this module

  Agree  （ 4）

  (9)The EOBL score produced by the tool is appropriate for this module

  Agree  （ 4）

\* 13. Case2-Random Scenarios

Manage\_Payment\_Decom

\* 14. Case 2 — Please indicate your level of agreement with the following statements

  (1)The tool-generated overall maintainability rating accurately reflects the maintainability of this module

  Agree  （ 4）

  (2)The LOE score produced by the tool is appropriate for this module

  Agree  （ 4）

  (3)The NOP score produced by the tool is appropriate for this module

  Agree  （ 4）

  (4)The NOCDF score produced by the tool is appropriate for this module

  Agree  （ 4）

  (5)The CC score produced by the tool is appropriate for this module

  Agree  （ 4）

  (6)The MHV score produced by the tool is appropriate for this module

  Agree  （ 4）

  (7)The NODSU score produced by the tool is appropriate for this module

  Agree  （ 4）

  (8)The EOC score produced by the tool is appropriate for this module

  Agree  （ 4）

  (9)The EOBL score produced by the tool is appropriate for this module

  Agree  （ 4）

\* 15. Case3-Random Scenarios

Perform\_Settlement\_Decom

\* 16. Case 3 — Please indicate your level of agreement with the following statements

  (1)The tool-generated overall maintainability rating accurately reflects the maintainability of this module

  Agree  （ 4）

  (2)The LOE score produced by the tool is appropriate for this module

  Agree  （ 4）

  (3)The NOP score produced by the tool is appropriate for this module

  Agree  （ 4）

  (4)The NOCDF score produced by the tool is appropriate for this module

  Agree  （ 4）

  (5)The CC score produced by the tool is appropriate for this module

  Agree  （ 4）

  (6)The MHV score produced by the tool is appropriate for this module

  Agree  （ 4）

  (7)The NODSU score produced by the tool is appropriate for this module

  Agree  （ 4）

  (8)The EOC score produced by the tool is appropriate for this module

  Agree  （ 4）

  (9)The EOBL score produced by the tool is appropriate for this module

  Agree  （ 4）

\* 17. Please rank the following metrics by their importance for maintainability assessment, from 1 (most important) to 8 (least important)

Number of Control Data Flows (NOCDF)→Module Halstead Volume (MHV)→Number of Processes (NOP)→Cyclomatic Complexity (CC)→Lines of Expressions (LOE)→Number of Data Stores Used (NODSU)→Extensiveness of Comments (EOC)→Extensiveness of Blank Lines (EOBL)