

Interview Protocol

Framework for Summarization and Error Detection of In-Vehicle Network Traces

For the evaluation of the framework, we conduct face-to-face, semi-structured interviews with experts, specifically software engineers who do error diagnosis for defects with in-vehicle network traces. The interviewees are asked to do basic trace analysis tasks without and then with the support of the trace analysis framework. Questions (cf. questionnaire) are asked centering on the technology acceptance of the novel framework. Each interview will last a maximum of 60 minutes and will be divided into the following four phases:

Phase 1: Introduction

- Outline the purpose and the structure of the interview.
- Ask about the current role and background of the interviewee.
- Ask about the current state of practice (cf. questions 1, 2).

Phase 2: Trace Analysis Tasks without Framework Support

- Explain the two trace analysis tasks, to be solved by the interviewee.
- The interviewee can ask clarification questions.
- Ask the interviewee to solve error diagnosis tasks without the support of the framework (current state of practice).

Phase 3: Trace Analysis Tasks with Framework Support

- The basic concept of the framework is explained.
- The two trace analysis tasks, to be solved by the interviewee, are explained.
- The participants can ask clarification questions.
- Ask the interviewee to solve error diagnosis tasks with the support of the framework.

Phase 4: Feedback

- Ask questions based on Technology Acceptance Model (cf. questions 3-9).
- Ask about general feedback, overall impression, and suggestions (cf. questions 10, 11).