

# **Empirical Software Engineering**

## **Report 1: Searching and Classifying Empirical Studies**

(20 Points, incl. 5 Points for Presentation)

You are responsible to complete a research task on literature search of empirical studies in software engineering. In this exercise, each student of a group needs to independently perform a manual literature search of the empirical studies published at the venue(s) (journal and conferences) and the year assigned to you. After individual search, each group needs to synthesize the search results retrieved by individual students, and to compile a group report as well as presentation slides that describe your search (method) process and search results. The student who on behalf of each group presents their work will receive up to two bonus points.

**PRESENTATIONS:** classes on April 19 & 21, 2022

**REPORT DEADLINE:** 00:00am on (Monday) April 25, 2022

Your report should include the following sections:

### **Section 1: Search Process (5 points)**

- 1) Describe the plan of your manual search, the search venues and databases, the selection and classification criteria, as well as the search execution process of your search strategy step by step, in particular on choosing database, screening, selecting and categorizing the empirical studies.
- 2) Describe the problems (issues) and experiences you gain in the literature search.

### **Section 2: Search Results (5 points)**

- 1) Present the statistical summary of your search results (empirical studies). Consider tables and graphic illustrations.
- 2) Compile a study list by grouping the empirical studies identified in terms of publication venues and the empirical research methods they applied. The list should provide full citation (bibliographic) information for each paper.

### **Section 3: Classification Rationale (5 points)**

Choose one or two studies per research method (depending on how many study types or research methods are identified) which are most challenging for your group. Elaborate the rationale behind your classification and the consensus discussion among the teammates.

### **Assignment Deliverable:**

The assignment deliverable should be submitted by the deadline. Each deliverable contains a cover page that clearly states the assignment number, your assigned search years, all group members' names and student IDs with an indication of the presenter.