Software Engineering Seminar

Information Retrieval Fault Localization

Description

Apart from spectrum-based and mutation-based fault localization techniques that try to locate faults by focusing either on dynamic coverage data or variations in execution behaviour caused by the mutation of program elements, respectively, another group of techniques can be classified as fault localization based on information retrieval (IR). IR-based fault localization methods try to rank program elements based on, e.g., bug reports, textual similarity metrics, code complexity, etc.

The goal of this topic is to examine and discuss the current state of IR-based fault localization techniques.

References


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