Software Engineering Seminar

Information Retrieval Fault Localization

Description

Automated fault localization techniques assist developers with the task of pointing out program elements that are most probable to be responsible for a detected error. Over the years, many different techniques have been developed [6].

An interesting 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., existing bug reports, textual similarity metrics, code complexity, etc.

The goal of this topic is to examine and discuss the current state of the art of IR-based fault localization techniques, to evaluate their relevancy and to analyze/estimate their capabilities compared to other fault localization techniques.

References


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