Zhang, Jie; Wang, Xiaoyin; Hao, Dan; Xie, Bing; Zhang, Lu; Mei, Hong

A survey on bug-report analysis.

Summary: Bug reports are essential software artifacts that describe software bugs, especially in open-source software. Lately, due to the availability of a large number of bug reports, a considerable amount of research has been carried out on bug-report analysis, such as automatically checking duplication of bug reports and localizing bugs based on bug reports. To review the work on bug-report analysis, this paper presents an exhaustive survey on the existing work on bug-report analysis. In particular, this paper first presents some background for bug reports and gives a small empirical study on the bug reports on Bugzilla to motivate the necessity for work on bug-report analysis. Then this paper summarizes the existing work on bug-report analysis and points out some possible problems in working with bug-report analysis.

Keywords: survey; bug report; bug-report analysis; bug-report triage; bug localization; bug fixing
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