Automated Repair with Mined Patches

– PAR –

Description

Automated program repair is a very difficult task, and the number of different possible bugs makes it seemingly hard to manually develop bug fixes (patches) for each of these bugs. Having this in mind, various techniques were developed in the recent past that try to learn bug fixes from existing projects in publicly available repositories like, for example, GitHub.

The goal of this topic is to examine the tool PAR which tries to repair bugs in Java-programs with the support of templates that were learned from bug-fixes in existing open source projects.

References


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