Automated Repair with Mined Patches

\textbf{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 \textsc{SearchRepair} which was developed very recently. The idea is to replace buggy code fragments with code snippets that are semantically similar. In advance, these code snippets are mined from a variety open source software projects.

\textbf{References}


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