Towards Practical Program Repair with On-Demand Candidate Generation

2018

ICSE

Instead of iteratively re-compiling and re-executing each actual candidate program, SKETCHFIX translates faulty programs to sketches ( partial programs with “holes”), and compiles each sketch once which may represent thousands of concrete candidates.

Accelerating Search-Based Program Repair

2018 ICST

Location selection and Test-Case pruning.