Software Engineering Seminar

Syntax based Automated Program Repair

Description

The research field of automated program repair is currently explored using different strategies to tackle the problems. Syntax based automated program repair methods (also frequently referred to as “generate-and-validate” techniques) mostly ignore the semantics of a program and try to generate multiple (often very many) patches that have to be validated against the test suite until a suitable patch is found.

The student is to examine and discuss the current state of syntax based automated program repair.

References


Contacts

Simon Heiden (heiden@informatik.hu-berlin.de)
Software Engineering Group
Institut für Informatik
Humboldt-Universität zu Berlin