Software Engineering Seminar

Automated Test Data Generation

Description

Software applications often rely on databases to manage their data. Consequently, such applications heavily use database queries (e.g., expressed in SQL) that should be tested thoroughly in the testing process of the software. Testing queries requires test data or test databases to exercise the queries. Instead of creating these manually, automated techniques have been proposed that are based on constraint solving [2] or search heuristics [1] to generate test data or test databases.

The student should explore and discuss the current state of the art in automated test data generation by investigating, discussing, and comparing different automated techniques.

References


Contacts

Thomas Vogel (thomas.vogel@informatik.hu-berlin.de)
Software Engineering Group
Institut für Informatik
Humboldt-Universität zu Berlin