TU Clausthal

Informatik-Kolloquium

Forschungsprojekt
von Wanja Zaseke

Donnerstag, den 21.01.2021, 13:00 Uhr,
BigBlueButton

"Behavior Driven Development for
Airborne Software Engineering"

The tendency in modern software engineering practices is towards removing disconnects among its activities by employing continuous practices to achieve agile processes. After Test-Driven Development (TDD) bridged the gap between implementation and testing, Continuous Integration (CI) and Continues Deployment (CD) attacked the disconnect between development and deployment. Behavior Driven Development (BDD) establishes a practice based on the behavior specifications from the end-user perspective. It builds upon TDD and promotes a semi-formal ubiquitous language for the specification of behaviors that is accessible to all the stakeholders of the system. BDD aims to come up with executable as well as a human-readable specification of the system.

While formal methods have long been praised by the dependable Cyber-Physical System community, continuous software engineering practices are now employing or promoting semi-formal approaches for achieving lean and agile processes. This research project investigates using Behaviour Driven Development, particularly Gherkin and RSpec for Avionic DevOps, DevOps for Avionic Systems

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