

# What problem does the paper solve?

1. The  **difference of performanc**e including running time、 loss of fault detection between the two method——**test-suite reduction and regression test selection.**
2. How well if the two methods combined together
3. They present **a new criterion** to measure **the quality of tests** with respect to **software changes.**

# Why is the problem important?

1. Changing of the software is frequent and unavoidable. The regression testing may take a lot of time with the scale up. It will accelerate the testing speed with improvement of the efficiency.
2. It provides us with a consultant of balance between the time-saving and loss of fault detection

# How is the problem being solved?

1. experiments on 4,793 commits from 17 open-source projects
2. they propose a new test criterion called Change-Related Requirements which approximates the change-related faults
3. they combine the two approaches.