Human generated assertions were Works better as found to be superior to generated

- this is probably still true - assertion generation is hard

What are automated tests good

- excellent for coverage - generate generic assertions

- mutant generation can help

EMECTIVENESS

Is there an upper bound on the usefulness of assertions?

- there is a limit on what you

can assert for a given method - some have many hundreds of assertion! Some only need few

- Research Question: is thre a correlation between # of assertions per case and test effectiveness

a meta-testing techn.

- off by-one typos

- automatically generated - only starting to come into industry

EEST SUITE 1 EFFECTIVEUESS

WITH ALI MESBAH

TEACHING/ LEARNING

How do we communicate these lessons with students? Can automated test assortions help inexperienced deus?

- automation is not a replacement for experience

- teach testing as part of introductory education

SECURITY TESTING

How do we test for

security? - software testing is for

- security is a non-functional property of systems

- rely on specific domain experts

GENERALIZABILITY

The paper studies Java. Do the findings travelate? - probably, but it's not

been shown yet.

- all testing frameworks contain assertions

Assertion Type

Some types of austron Seem to be more effective.

- After more research, the correlation was not found