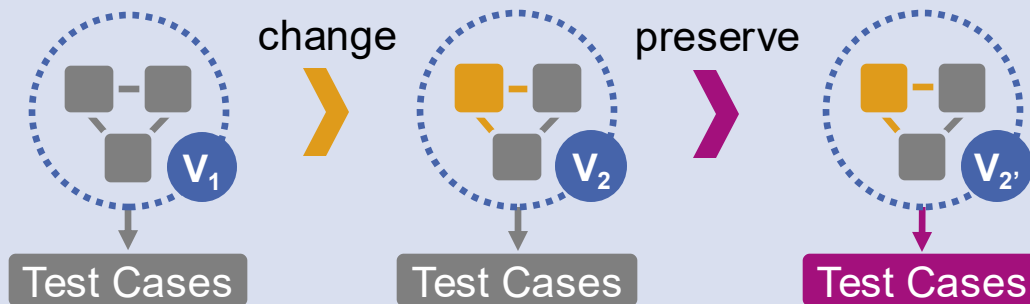


Background

- engineering of cyber-physical systems consists of different roles & models
- models may have an information overlap (e.g., hardware property – software attribute)
- changes cause inconsistencies betw. models
- e.g., test cases validate the system's functional safety after a change to the system



Challenges

- 3 cases of test case consistency preservation: (1) adaptation not necessary, (2) adaptation necessary, (3) re-generation necessary
- How to decide if, or which test cases must be adapted or re-generated?

PdF Topic

- 1st Phase: literature work on metrics of change, selection in context of appl. for test cases
- 2nd Phase: concept for deciding whether adapting a test case is possible or not, using the identified metrics of change