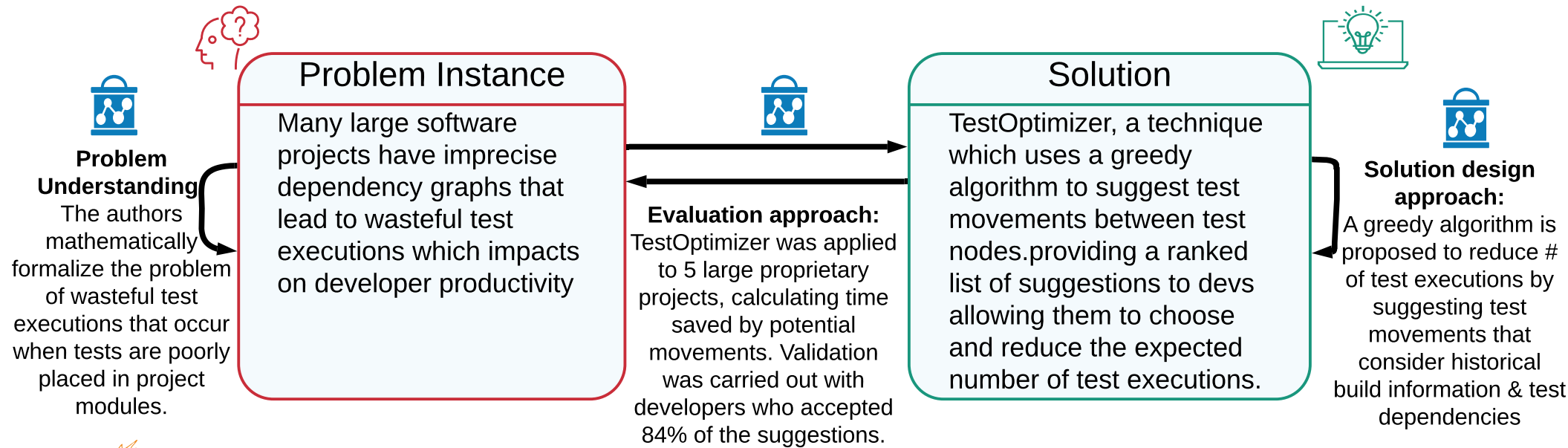




Technological rule: To reduce wasteful test executions when tests are poorly placed in modules, use TestOptimizer to guide which tests should be moved reducing test execution time.



Relevance: Relevant for developers during regression testing of large systems when tests may be poorly positioned, leading to wasteful test executions at build time.



Rigor: Case study with 5 large systems was carried out.



Novelty: Proposal of TestOptimizer, a tool for integration in a build environment for making suggestions on how to reduce wasteful test executions. The tool can also be used to reduce impact of flaky tests.