

PIT Hands-on

CS453 Automated Software Testing

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PITest

- A “Practical” mutation testing tool :)
- PIT: A Practical Mutation Testing Tool for Java (Demo), H. Coles, T. Laurent, C. Henard, M. Papadakis, and A. Ventresque, ISSSTA 2016, <https://dl.acm.org/doi/abs/10.1145/2931037.2948707>
- Assessing and Improving the Mutation Testing Practice of PIT, T. Laurent, M. Papadakis, M. Kintis, C. Henard, Y. Traon, A. Ventresque, ICST 2017, <https://ieeexplore.ieee.org/abstract/document/7927997>

Hands-on Document on GitHub

- <https://github.com/coinse-classroom/cs453-pit-handson>
- We will apply PIT on two Apache Commons libraries
 - Integration into Maven build scripts
 - Execution of mutation testing
 - Improving the test suite to kill more mutants