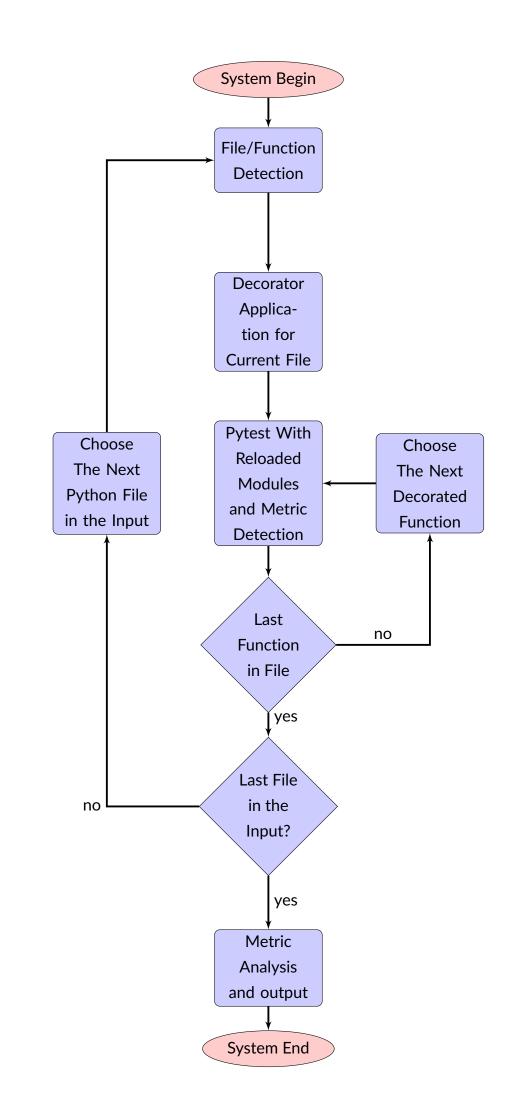
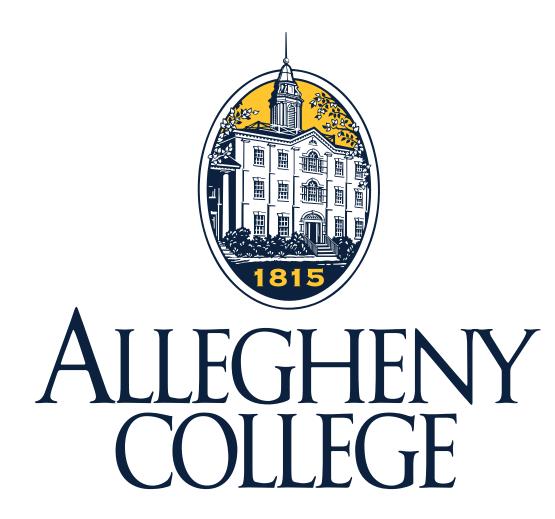
# Automatic Detection of Pseudo-tested Methods using Python and Pytest

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#### Introduction

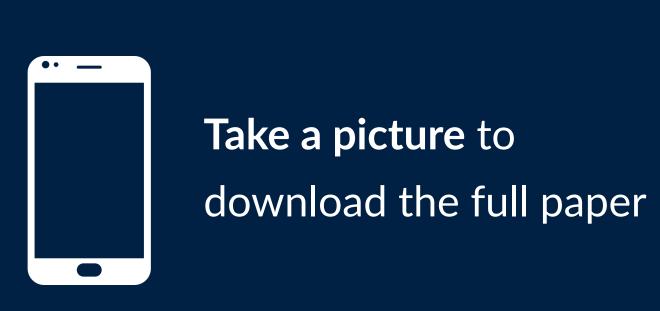
Software systems are very large and complex. Due to this, modern python programs are difficult to test due to the lack of type safety. Another concern is the possible misleading nature of statement coverage since it doesn't factor in branches and iteration, there is no information on the data state, and the quality of the oracle. Due to this, there is a potential chance for psuedo-tested methods to exist in python programs.



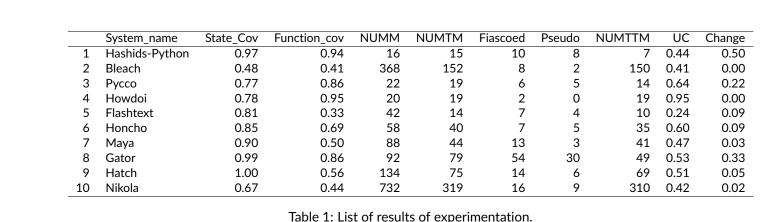


Function-Fiasco is an automatic tool that detects pseudo-tested methods in Python progams.





# Results



Function-Fiasco can successfully detect pseudo-tested methods in Python based systems.

## **Future Work**

Function-Fiasco has many features that will be implemented which include:

- Further type fuzzing capability
- Parameterized test observation
- Further system evaluation

## Conclusion

Pseudo-tested methods are an issue that exist in Python based systems. Function-Fiasco has the capability to detect such methods that may lead to unexpected issues.

#### **Get Involved**

If you would like to get involved, please feel free to enter bugs into the issue tracker on our github page, or submit a pull request to aid in the implementation.

