

Test Condition and Reliability Guarantees

ml:

- script : `./test_model.py`
- condition : $n - o > 0.02 \pm 0.01$
- reliability: 0.9999
- mode : fp-free
- adaptivity : full
- steps : 32

Github Repository

`./travis.yml`

`./testset`

`./ml_codes`

or

ml/ci

passed

ml/ci

failed

or

4 Get pass/fail signal

1 Define test script

2 Provide N test examples

3 Commit
a new ML
model/code

Technical Contribution

Provide guidelines on how large N is in a *declarative, rigorous, but still practical* way, enabled by novel system optimization techniques.

Example Test Condition

New model has at least 2% higher accuracy, estimated within 1% error, with probability 0.9999.