



IEEE International Software Testing Contest

in conjunction with 28th Annual IEEE Software
Technology Conference (STC 2017)

September 26, Washington D.C.
National Institute of Standards and Technology



INTRODUCTION

Software plays an integral part in our everyday lives today because of its near ubiquitous influence in our increasingly technological society. Therefore, taking appropriate steps to apply software testing techniques is of paramount importance. To promote advanced software testing theory, techniques, and tools, the IEEE Reliability Society, in collaboration with the 28th Annual IEEE Software Technology Conference as well as other sponsors will host an IEEE International Software Testing Contest on Tuesday, September 26 at the National Institute of Standards and Technology. Winners from this round will be invited to attend the final contest at the 18th IEEE International Conference on Software Quality, Reliability and Security (QRS) in Lisbon, Portugal, July 2018. Travel awards may be available for selected contestants.

CONTEST GUIDELINES

All contestants must bring their own laptops. The contest has two parts:

- The first part is a 2-hour tutorial (10:00–12:00). We will help contestants properly configure their laptops, and explain how to use Mootest.net platform. Each contestant is required to have basic knowledge about Java programming and JUnit.
- The second part is the contest (14:00–17:30). The contest is individual based. Each contestant will design test cases with specific input values based on the given source code and specification to test two Java programs. The quality of test cases will be measured by the code coverage and mutation score achieved.

RUNNING ENVIRONMENT

Laptops used for this contest must have the following software installed:

- Windows 7 or later versions
- Java JDK 1.7 (cannot be other JDK versions)
- Eclipse Luna (cannot be other Eclipse versions)

We will help contestants configure their laptops during the Tutorial session.

REGISTRATION

Send an email to Linghuan Hu at hulinghuan@gmail.com, if you want to participate in this contest. The subject of your email should be “IEEE International Software Testing Contest – Washington, D.C. area” and the body should include your first name, last name, citizenship, and affiliation.

AWARD & CERTIFICATE

The first place receives a cash prize of \$500 USD, followed by the 2nd and the 3rd places for \$300 USD and \$150 USD, respectively. Every contestant will receive a certificate.

CONTEST VENUE

National Institute of Standards and Technology, 100 Bureau Drive, Gaithersburg, MD 20899, USA

IMPORTANT DATES

- ◆ Registration deadline: September 20, 2017 US citizens & Permanent Residents
September 15, 2017 Others
- ◆ Tutorial & Contest: September 26, 2017

INQUIRY

Send inquiries to Professor W. Eric Wong (ewong@utdallas.edu) and Professor Zhenyu Chen (zychen@nju.edu.cn)

SPONSORS



IN COLLABORATION WITH