First International Software Testing Contest

in conjunction with the 2017 IEEE International Conference on Software Quality, Reliability, and Security (QRS 2017)

July 26, Prague, Czech Republic
http://paris.utdallas.edu/qrs17/contest.html

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 applying software testing techniques is of paramount importance. To promote advanced software testing theory, techniques, and tools, IEEE Reliability Society, collaborating with IEEE International Conference on Software Quality, Reliability, and Security as well as other sponsors host the First IEEE International Software Testing Contest on July 26 in Prague, Czech Republic. We cordially invite you to participate the contest and win a CASH prize!

REGISTRATION

All interested contestants must send an email to Dr. Ruizhi Gao at youtianzui.nju@gmail.com before July 25. The subject of the email should be "IEEE 2017 ISTC -- Contestant". The content should include the first name, last name, and affiliation.

FORMAT & EVALUATION

All applications have to be submitted before the end of July 25 (CDT). All contestants must bring their own laptops. The contest has two parts:

− The first part is a 1-hour tutorial in the morning of July 26. During this tutorial, we will help contestants properly configure their laptops, and explain how to use Mooctest.net platform. Each contestant is required to have basic knowledge about Java programming and JUnit.
− The second part is a 3-hour contest where contestants are required to design test cases based on the given specifications to test three Java programs. The quality of these test cases is determined based on the code coverage (*statement* and *branch*) and mutation score achieved.

The ranking of all the contestants is based on the quality of test cases they generate, which is measured in terms of a combination of the statement and branch coverage, and the mutation score achieved. If test cases from multiple contestants achieve the same coverage, contestants with fewer test cases have a higher ranking than those with more test cases.

PLATFORM & CONFIGURATION

Every contestant must bring his/her own laptop and have the following software installed:

− Java JDK 1.7 (cannot be other JDK versions)
− Eclipse Luna (cannot be other Eclipse versions)
− A working web browser

If you have trouble installing the above software, we will help you set up the environment during the tutorial session before the official contest.

AWARDS

The first place receives a cash prize of $1,200 USD, followed by the 2nd and the 3rd places for $800 USD and $500 USD, respectively. The 4th to the 10th place each receives $300 USD.

CONTEST VENUE

The First International Software Testing Contest will be held at the Czech Technical University in Prague, Faculty of Information Technology (Thákurova 9, 166 00 Praha 6 Czech Republic GPS: 50.105120, 14.390232)

IMPORTANT DATES

◆ July 25, 2017:   Application deadline
◆ July 26, 2017:   Tutorial & Contest
◆ July 27, 2017:   Ceremony

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