5th UCAAT
User Conference on Advanced Automated Testing

ETSI

Berlin, 11-13 October 2017

Hosted by: **Fraunhofer FOKUS**

Tackling testing challenges in the age of connected things

Five years ago ETSI's Technical Committee "Methods for Testing & Specification (TC MTS)" created a platform for testers and testing experts to share new ideas and discuss experiences in automated testing: the ETSI User Conference on Advanced Automated Testing (UCAAT). UCAAT is the successor of previous ETSI User Conferences on TTCN-3 (T3UC) and Model-Based Testing (MBTUC).

One of this year's main topics at UCAAT will be testing the Internet of Things (IoT) which has been blurring lines between verticals such as telecom, transport, enterprise IT, automotive and leading to the emergence of a unified technology platform. After years of standardization (also at ETSI) the growth of deployed solutions is rapid but still offering the diversity common to major steps in technology. That brings challenges but also new opportunities for business and testing technologies to the market place.

UCAAT is dedicated to the application of aspects of automated testing including model-based testing, cloud testing, mobile testing, test methodologies, test management and standardized test specification by focusing on the practical challenges that are often faced in industry. This conference brings together researchers and industrial practitioners from different application domains such as Telecommunications, Banking, IT Services, Automotive, Robotics, Healthcare, Defense as well as tool vendors to meet, discuss and share their practical experiences in the field of software testing.

Objectives

UCAAT offers an opportunity to come together to share experiences and learn about the latest advances in the industrial use of test automation. It welcomes presentation, poster and tutorial submissions relevant to modern test automation approaches, technologies and strategies in practice by means of case studies or experience reports.

Topics of interest for submissions to UCAAT 2017 include (but are not limited to):

- Experiences from introducing or using advanced automated techniques for:
  - Testing the IoT in the telco (5G), healthcare, automotive or any other domain
  - Testing AI systems, the Cloud, cloud based products, micro services, or systems producing big data
  - Testing non-functional requirements, e.g., usability, security, robustness, performance and maintainability
  - Preparation of test data in particular for integration testing and end-to-end testing
  - Test logging and test debugging

- Experiences from applying advanced automated testing techniques in:
  - Continuous integration or other processes with short release cycles, e.g., agile environments
  - DevOps

- Experiences from long term application of test automation
  - Best practices related to architecture and design of test automation software
  - Standardization efforts related to advanced test automation
  - Experiences and pitfalls in creating sustainable test automation solutions that can evolve over longer periods of time
  - Documenting, managing and maintaining assets produced by automated testing

- Experiences from using new techniques or technologies in automated testing such as the use of:
  - Search-based approaches, machine learning, and other AI techniques
  - Cloud services
  - Big data techniques
  - Static analysis, profiling, technical debt and test coverage measurement

- Industrial case studies reporting experiences from applying standardized test automation languages, e.g.
  - TDL (Test Description Language)
  - TTCN-3 (Test and Test Control Notation)
  - UTP (UML Testing Profile)
  - and DSLs (Domain-Specific Languages)

- Experiences and lessons learned from applying advanced test automation processes, e.g.
  - Acceptance Test Driven Development (ATDD)
  - Behavior Driven Development (BDD)
  - Model-Based Testing (MBT)
  - Test Driven Development (TDD)
  - Requirement based test generation and other advanced test processes in industrial settings
  - Ethical aspects of introducing a new test automation technology

Submission Details

We are soliciting for:

- short proposals for 20 minute conference presentations (incl. questions) by test automation users
- 1,5 hour entry level or advanced tutorials
- posters focusing on practical aspect of test automation

Submissions should seek for extracting a message for a broader user community and should not focus on tooling details; tools can be promoted in the vendor track organized for event sponsors. A proposal for a conference presentation, tutorial or poster presentation shall be no longer than three A4 pages and must follow the templates given at https://ucaat.etsi.org/2017/call-for-presentations.

Please use the following link to upload proposals: https://www.easychair.org/conferences/?conf=ucaat2017

The independent program committee, composed mostly from industry stakeholders, will evaluate all proposals. Proposals in PDF format shall be submitted via EasyChair. The program including the slides of accepted presentations and posters will be made available electronically to participants and on the conference web site.

UCAAT@etsi.org – ucaat.etsi.org/2017 – #UCAAT