The University of Memphis
Systems Testing Excellence Program
FedEx Institute of Technology

The 10th International Research Workshop on Advances and Innovations in Software Testing
http://www.memphis.edu/step/

University of Memphis
Memphis, Tennessee

May 1-2, 2017
NOTE: May 1 full day of papers and panels
May 2 morning of tutorials

Call for Papers
The Systems Testing Excellence Program (STEP) of the University of Memphis at the FedEx Institute of Technology is pleased to announce the 10th International Research Workshop on Advances and Innovations in Software Testing on May 1-2, 2017. The Software Testing Workshop features a full day of research paper presentations on Monday, May 1 with a dinner event to follow, and a half day of tutorials on the morning of Tuesday, May 2.

We invite submissions of original contributions in all aspects of Systems and Software Testing including, but not restricted to:

• Medical device and biomedical software verification and validation
• Global user acceptance testing
• Requirements visualization for improving testing
• Agile software development and testing
• Testing metrics, risk assessment, risk tolerance
• Testing process optimization, testing automation
• Scalability issues, testing of infrastructures, platform independent testing methods and processes
• Cultural, inter-cultural, training needs, and professional challenges
• Security issues in systems testing
• Real-time testing management on a 24x7 basis
• Data and load management issues
• Testing and disaster recovery failover
• Testability criteria
• Testing in the cloud
• Interoperability testing
• Testing skills and competencies
• Networking testing challenges
• Cyber-security testing
• Internet of Things testing

Papers relating to any sub-discipline of Systems and Software Testing are welcome. Contributions will be reviewed based on their appropriateness of subject matter, originality and quality, clarity of presentation and analysis of the reported approaches.

Submission Guidelines
Full papers can be directly emailed to Dr. Ted Lee (elee@memphis.edu). The submission deadline is listed below. Paper submissions in MS Word are required. Authors should use the 8.5"x11" two-column Word template provided on the workshop website (https://umdrive.memphis.edu/g-mis/www/memphis/step/STEP2017/msw_usletter_format_nov12.doc) to format their papers. The submission must be a completed manuscript. Summaries and bullet point lists of ideas or approaches will not be accepted. If a paper is accepted, at least one author must register to present the paper, and final papers must be submitted by using the provided template in MS Word format.

Important Dates
• Workshop registration opens – February 20\textsuperscript{th}, 2017
• Paper submission deadline – March 15\textsuperscript{th}, 2017
• Acceptance notification to authors – March 31\textsuperscript{st}, 2017
• Final papers due – April 14\textsuperscript{th}, 2017
• Paper presentations and panels – May 1\textsuperscript{st}, 2017 (full day)
• Tutorials – May 2\textsuperscript{nd}, 2017 (morning)

Event Details
The 10th International Research Workshop on Advances and Innovations in Software Testing is scheduled at the University of Memphis’s FedEx Institute of Technology in Memphis, Tennessee on May 1-2, 2017. The workshop aims to bring together the very best research and industry practice on the subject of Systems and Software Testing. We invite submissions related to all theoretical and practical aspects of testing including cyber security testing, hardware testing, software testing, requirements testing, and the testing of business rules.

The workshop is organized by the Systems Testing Excellence Program (STEP) at the University of Memphis. STEP is an interdisciplinary research program under the auspices of the FedEx Institute of Technology that brings together the departments of Business Information and Technology (formerly MIS), Computer Science, and Electrical & Computer Engineering. The workshop is also supported by FedEx’s Global Testing Center of Excellence which has a unique research and training partnership relationship with STEP.
The workshop will be a mixture of presentations and open discussions. It is anticipated that attendees from both academia and industry will benefit greatly from the open exchange of ideas and methodologies on software testing.

As part of our 10th year celebration we will honor our STEP Certification holders during the opening ceremony. Please visit the workshop website for detailed information: [http://www.memphis.edu/step/](http://www.memphis.edu/step/) (click on Events and then on the “STEP Workshop 2017” link)

**Past Keynote Addresses**
Past keynote addresses were delivered by leading scholars/practitioners in the field of systems and software testing, including:

- Dave Miller, FedEx Services
- Thomas Wissink, Lockheed Martin Corporate Engineering
- Patrick Shelton, Systems and Software Solutions, IBM
- Ron Moussafi, Intel Corporation
- Dr. Mark Brown, International Testing and Evaluation Association
- Dave Miller, FedEx Services
- Dr. Steven Hutchinson, Defense Information Systems Agency
- Ralph H Groce III, Wells Fargo Retirement
- Dr. Alan Hevner, University of South Florida
- Dr. Bill Scherlis, Carnegie Mellon University
- Dr. Jeff Offutt, George Mason University
- Dr. Thomas Ball, Microsoft Research
- Dr. Cem Kaner, Florida Institute of Technology