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

The 9th International Research Workshop on  
Advances and Innovations in Software Testing  
http://www.memphis.edu/step/  

October 19-20, 2015  
NOTE: October 20 full day of papers and panels  
October 19 morning of tutorials  
University of Memphis  
Memphis, Tennessee  

Call for Papers  

The Systems Testing Excellence Program (STEP) of the University of Memphis at the FedEx Institute of Technology, in partnership with the Center for Information Assurance (CfIA), is pleased to announce the 9th International Research Workshop on Advances and Innovations in Software Testing on October 19-20, 2015. The Software Testing Workshop features a half day of tutorials on the morning of Monday, October 19 and a full day of research paper presentations on Tuesday, October 20, with dinner event to follow. The 8th Annual Cyber Security Summit, organized by CfIA, will be held on October 16. For details about the Summit, please see http://cybersummit.memphis.edu. 

Join us as we will also be celebrating the retirement of one of our Business Information & Technology (formerly MIS) Departmental Advisory Board charter members and STEP Co-Founders: Dave Miller at FedEx, whose visionary leadership transformed quality assurance and testing at FedEx and who has tirelessly supported the pursuit of the Science of Testing with STEP at UofM. 

The workshop will be a mixture of presentations and open discussions. Presenters and attendees come from both academia and industry. 

Please visit the workshop website for detailed information: http://www.memphis.edu/step/ (click on Events and then on the “STEP Workshop 2015” link)
Important Dates

- Workshop registration opens – September 1st, 2015
- Paper submission deadline – September 30th, 2015
- Acceptance notification to authors – October 7th, 2015
- Final papers due – October 14th, 2015
- Tutorials – October 19th, 2015 (morning)
- Paper presentations and panels – October 20th, 2015 (full day)

Details

The 9th 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 October 19-20, 2015. The workshop aims to bring together the very best research and industry practice on the subject of 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 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 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.

It is also our pleasure to host members of the Center for Information Assurance (http://www.memphis.edu/cfia/) who will be joining us this year in tandem with the 8th Annual Cyber Security Summit (http://cybersummit.memphis.edu). We hope to see you at this year’s International Research Workshop on Advances and Innovations in Software Testing.

Keynote Addresses

Past keynote addresses were delivered by leading scholars/practitioners in the field of systems testing, including:

- 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, Vice President of Software Quality Assurance, 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
Submissions
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

Papers relating to any sub-discipline of 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 above. Paper submissions in MS Word are required. Authors should use the 8.5"x11" two-column Word template provided on the conference website (https://umdrive.memphis.edu/g-mis/www/memphis/step/default.htm) 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.