Foreword

Welcome to AST 2013 – The 8th International Workshop on Automation of Software Test which is to be held in conjunction with The 35th International Conference on Software Engineering (ICSE 2013) in San Francisco, USA, on May 18-19, 2013.

The workshop is the 8th edition of the successful AST workshops held at ICSE 2006-2012. It provided researchers and practitioners with a forum for exchanging ideas, experiences, understanding of the problems, visions for the future, and promising solutions to the problems. The workshop has also provided a platform for researchers and developers of testing tools to work together to identify the problems in the theory and practice of software test automation and to set an agenda and lay the foundation for future development.

In recent years, “Test-as-a-Service” (TaaS) has emerged as an integral part of cloud computing, where testing are automated and delivered in the form of services together with all types of other services at all levels of cloud services, including infrastructure-as-a-service (IaaS), platform-as-a-service (PaaS) and software-as-a-service (SaaS). AST 2013 workshop took place in this background with a special focus theme on TaaS. The keynote speeches and Charette discussion sections will all be on this topic. In particular, Professor Jerry Gao will give a keynote on “Testing as a Service on Clouds”.

We received a total of 38 submissions from 114 authors of 17 countries. Each paper is reviewed by at least 3 PC members and evaluated according to the criteria of relevance, originality, soundness, maturity and presentation quality, and online discussions about the reviews takes place in order to resolve conflict opinions after the reviews were completed. Decisions were made based on the review results as well as the outcomes of the online discussions. 18 submissions were accepted as the full papers. An additional 6 submissions were accepted as short papers to encourage authors’ participation to the event. The paper were grouped into a number of sessions: Session 1 and 2: Testing-as-a-Service (I & II); Session 3: Testing Distributed, Concurrent and Parallel Systems; Session 4: Security Testing; Session 5: Test Case Generation; Session 6: Reuse, Refactoring and Regression Test, Session 6: Application of Software Testing, Session 7: Testing and Debugging.

We want to thank all the authors for sharing their ideas and results with us, and all the members of the Program Committee and reviewers for their help in evaluating and selecting high quality papers. Without their participation, the success of the AST workshop would not be possible. We thank you for attending the workshop and hope that you enjoy the program we have prepared for you.

Up-to-date information on the workshop can be found at: http://tech.brookes.ac.uk AST2013/

Hong Zhu,
Henry Muccini,
Zhenyu Chen.
PROGRAM CHAIRS

• Hong Zhu, Dept of Computing and Communication Technologies, Oxford Brookes University, hzhu@brookes.ac.uk
• Henry Muccini, Dept of Engineering, Computer Science and Mathematics, University of L’Aquila, Italy. henry.muccini@univaq.it
• Zhenyu Chen, Software Institute, Nanjing University, Nanjing, JiangSu Province 210093, China. pyzychen@gmail.com

PROGRAM COMMITTEE

Mark Harman, University College London
T.H. Tse, The University of Hong Kong
Gordon Fraser, University of Sheffield
Dimitris Dranidis, CITY College
W.K. Chan, City University of Hong Kong
Leonardo Mariani, Universita’ di Milano
Bicocca
Patricia Machado, Federal University of Campina Grande
Atif Memon, University of Maryland
Amit Paradkar, IBM
Yves Le Traon, University of Luxembourg
Myra Cohen, University of Nebraska-Lincoln
Dianxiang Xu, Dakota State University
Andrea Polini, University of Camerino
Francesca Lonetti, ISTI CNR

Gregory Kapfhammer, Department of Computer Science, Allegheny College
Alexander Pretschner, Technische Universität München
Lu Zhang, Peking University
Xiaoying Bai, Tsinghua University
Rob Hierons, Brunel University
Dan Hoffman, University of Victoria
Hasan Ural, University of Ottawa
John Hughes, Chalmers University of Technology
Paul Strooper, University of Queensland
Antonia Bertolino, ISTI-CNR
M.J. Escalona, University of Seville
Shaoying Liu, Hosei University

ADDITIONAL REVIEWERS

Emanuela Cartaxo
Dan Hao
Ivo Neskovic
Alexandre Bartel
Jorge Augusto Meira
Everton Alves
Ana Emília Victor Barbosa Coutinho
Tejeddine Mouelhi
Matthias Büchler

Erwan Abgrall
Mike Papadakis
Dan Hao
Konstantinos Bratanis
Johan Oudinet
Dan Hao
Dominik Holling
Weikai Miao