Welcome Message from the Workshop Chairs

On behalf of the workshop chairs for Testing the Cloud (TTC 2014), it is our pleasure to welcome you to Cleveland for this event co-located with the IEEE International Conference on Software Testing, Verification and Validation (ICST). The aim of the workshop is to provide a forum for researchers from both academia and industry to present the high-quality results in the area of testing the Cloud. All submissions were evaluated by the PC members (mostly four reviews per paper). All the accepted papers will be presented during three sessions. The workshop program also includes three keynote talks. We are very fortunate that three outstanding researchers and industrials have accepted our invitation to serve as keynote speakers: Varad Rajulu (IBM, Boston, MA), John Penix (Google, Mountain View, CA), and Mark Grechanik (University of Illinois, Chicago, IL).

We would like to thank the PC members for their hard work to timely deliver the reviews. Their high competence enabled us to prepare the high-quality final program of TTC 2014. We would also like to thank all the authors for their submissions. We wish to express our thanks to the organisers of the main ICST 2014 conference for their friendly support during the organisation of TTC 2014. Finally, the support of The Irish Software Engineering Research Centre (Lero) is gratefully acknowledged.

TTC is the second event dedicated to testing the Cloud. Cloud computing is everywhere, inevitable: originally a layered abstraction of a heterogeneous environment, it has become the paradigm of a large-scale data-oriented system. Although it has some interesting features, testing its robustness and its reliability is a major challenge. The Cloud is an intricate collection of interconnected and virtualised computers, connected services, complex service-level agreements. From a testing perspective, the Cloud is then a complex composition of complex systems.

The question of testing this large, network-based, dynamic, composition of computers, virtual machines, servers, services, SLAs, seems particularly difficult. This problem is a perfect example of cross concerns between academia and product companies, and it covers a broad range of topics, from 'testing the Cloud' (i.e., testing the Cloud itself, for instance, its infrastructure), 'testing in the Cloud' (i.e., testing applications that are deployed in the Cloud), and 'testing with the Cloud' (e.g., using the Cloud capabilities to perform stress testing on an application).

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