The Fourth International Workshop on Large-Scale Testing (LT 2015)

LT 2015
Large-Scale Testing

http://lt2015.eecs.yorku.ca/

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6th ACM/SPEC International Conference on Performance Engineering
ICPE 2015
Austin, TX, USA — Jan 31–Feb 4
(Ultra) Large-Scale Software Systems

4 million users
2600-3000 req/sec on most weekdays

450 million active users
> 50 billion messages every day
High Reliability and Performance

One hour global outage lost $7.2 million (02/24/09)

Every 100 ms of latency costs ~ 1% in sales

A 0.5 sec extra in search page generation drops traffic by 20%

Flickr outage impacted 89 million users (05/24/13)

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We're working to make the experience better, and we don't want you to lose your place in line. We'll send you to the login page as soon as we can. Thanks for your patience!
Large-Scale Testing includes all different objectives and strategies of testing large-scale software systems using *load*. Examples of large-scale testing include live upgrade testing, load testing, high availability testing, operational profile testing, performance testing, reliability testing, stability testing and stress testing.
Workshop Agenda

09:00 - 09:05 Welcome & Introductions

09:05 - 10:10 Keynote I:
Challenges, Benefits and Best Practices of Performance Focused DevOps
Wolfgang Gottesheim (Compuware)

10:10 - 10:30 Coffee Break

10:30 - 12:00 Industry Talks

12:00 - 13:30 Lunch Break

13:30 - 14:30 Keynote II:
Load Testing Elasticity and Performance Isolation in Shared Execution Environments
Samuel Kounev (University of Würzburg)

14:30 - 15:00 Technical Talks I

15:00 - 15:30 Coffee Break

15:30 - 16:30 Technical Talks II

16:30 - 17:20 Open Discussions on Large-Scale Testing

17:20 - 17:30 Workshop Wrap-up and LT 2016
Open Discussion

• Questions or longer discussion points from the industry or technical talks

• Additional thought-provoking topics:
  – What are the current burning issues of large-scale testing in industry?
  – Will different large-scale systems require different large-scale testing strategies?
  – Can we effectively leverage performance modeling to guide large-scale testing activities?
  – Load testing on cloud environments?
    • e.g., how can one ensure that a system behaves the same way once in production if the resources may vary over time
  – Load generation using clouds? (e.g., privacy, VPN access, ..)
  – ...

Thank you!

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