Social Networks 2010Storage Cloud Computir **USENIX Federated Conferences Week**

June 22-25, 2010 Boston, MA

www.usenix.org/confweek10

New for 2010, USENIX is combining established conferences and new workshops into one week full of research, trends, and community interaction.

///// USENIX ATC '10

2010 USENIX Annual Technical Conference Wednesday–Friday, June 23–25 www.usenix.org/atc10

WebApps '10 / / / / / **USENIX Conference on Web Application Development** Wednesday–Thursday, June 23–24 www.usenix.org/webapps10

//// WOSN 2010

3rd Workshop on Online Social Networks Tuesday, June 22 www.usenix.org/wosn10

HotCloud '10 / / / /

2nd USENIX Workshop on Hot Topics in Cloud Computing Tuesday, June 22 www.usenix.org/hotcloud10

/////HotStorage '10

2nd Workshop on Hot Topics in Storage and File Systems Tuesday, June 22 www.usenix.org/hotstorage10

Google's Go Tutorial ////

Wednesday, June 23

///// FAST-OS Workshop

Wednesday, June 23

1st USENIX Cloud Virtualization Summit ////

Thursday, June 24

Friday, June 25

www.usenix.org

///// Configuration Management Summit

Thursday, June 24

Cfengine 3 Tutorial ////

And more!

//// Why Attend

You'll leave this week with insights into the future of many hot topics. Your access to leading researchers and industry experts will not only provide answers to your most burning questions but will also help you build lasting connections across multiple disciplines. Take full advantage of this opportunity and learn from the top researchers, practitioners, and authors all in one place, at one time.

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USENIX Annual Technical Conference

Wednesday

June 23–25, 2010 Boston, MA

Wednesday, June 23, 2010

8:30 a.m.-10:00 a.m.

Welcome, Awards, and Keynote Address

Keynote Speaker: Bobby Johnson, Director of Engineering, Facebook, Inc.

10:00 a.m.—10:30 a.m.	Break			
10:30 a.m.–Noon	Wednesday			

High-Performance Event Processing with Information Security

Matteo Migliavacca and Ioannis Papagiannis, Imperial College London; David M. Eyers, University of Cambridge; Brian Shand, CBCU, National Health Service; Jean Bacon, University of Cambridge; Peter Pietzuch, Imperial College London

WideArea Route Control for Distributed Services

Vytautas Valancius and Nick Feamster, Georgia Institute of Technology; Jennifer Rexford, Princeton University; Akihiro Nakao, The University of Tokyo

LiteGreen: Saving Energy in Networked Desktops Using Virtualization

Tathagata Das, Microsoft Research India; Pradeep Padala, The University of Michigan; Venkat Padmanabhan and Ram Ramjee, Microsoft Research India; Kang G. Shin, The University of Michigan

Noon-1:00 p.m.	Conference Luncheon
1:00 p.m.–2:00 p.m.	Wednesday
Invited Talk	
Visualizing Data Ben Fry, <i>Author and Consultant</i>	
2:00 p.m.–3:00 p.m.	Wednesday

Stout: An Adaptive Interface to Scalable Cloud Storage

John C. McCullough, University of California, San Diego; John Dunagan and Alec Wolman, Microsoft Research, Redmond; Alex C. Snoeren, University of California, San Diego

IsoStack—Highly Efficient Network Processing on Dedicated Cores

Leah Shalev, Julian Satran, Eran Borovik, and Muli Ben-Yehuda, IBM Research—Haifa

3:00 p.m.–3:30 p.m.	Break

3:30 p.m.-5:30 p.m. Wednesday A Realistic Evaluation of Memory Hardware Errors and Software System Susceptibility

Xin Li, Michael C. Huang, and Kai Shen, University of Rochester; Lingkun Chu, Ask.com

The Utility Coprocessor: Massively Parallel Computation from the Coffee Shop

John R. Douceur, Jeremy Elson, Jon Howell, and Jacob R. Lorch, Microsoft Research

Apiary: Easy-to-Use Desktop Application Fault Containment on Commodity Operating Systems Shaya Potter and Jason Nieh, Columbia University

Tolerating Malicious Device Drivers in Linux

Silas Boyd-Wickizer and Nickolai Zeldovich, MIT CSAIL

6:00 p.m.-8:00 p.m.

Poster Session and Happy Hour

Find out how to submit a poster at http://www.usenix.org/events/ atc10/posters_wips.html.

Wednesday

Thursday, June 24, 2010

9:00 a.m.-10:00 a.m. Thursday Keynote Address

Some Thoughts About Concurrency Ivan Sutherland, Visiting Scientist at Portland State University

10:30 a.m.—Noon	Thursday
10:00 a.m10:30 a.m.	Break
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Proxychain: Developing a Robust and Efficient Authentication Infrastructure for Carrier-Scale VoIP Networks

Italo Dacosta and Patrick Traynor, Georgia Institute of Technology ZooKeeper: Wait-free Coordination for Internet-Scale

Systems

Patrick Hunt and Mahadev Konar, Yahoo! Grid; Flavio P. Junqueira and Benjamin Reed, Yahoo! Research

Testing Closed-Source Binary Device Drivers with DDT

Volodymyr Kuznetsov, Vitaly Chipounov, and George Candea, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland

Thursday

Reception

Noon-1:00 p.m. Conference Luncheon

1:00 p.m.-3:00 p.m.

A Transparently-Scalable Metadata Service for the Ursaminor Storage System

Shafeeq Sinnamohideen and Raja R. Sambasivan, Carnegie Mellon University; Likun Liu, Tsinghua University; Gregory R. Ganger, Carnegie Mellon University

FlashVM: Virtual Memory Management on Flash

Mohit Saxena and Michael M. Swift, University of Wisconsin— Madison

Dyson: An Architecture for Extensible Wireless LANs

Rohan Murty, Harvard University; Jitendra Padhye and Alec Wolman, Microsoft Research; Matt Welsh, Harvard University

ChunkStash: Speeding Up Inline Storage Deduplication Using Flash Memory

Biplob Debnath, University of Minnesota, Twin Cities, and Microsoft Research, Redmond; Sudipta Sengupta and Jin Li, Microsoft Research, Redmond

3:00 p.m.–3:30 p.m.	Break			
3:30 p.m4:30 p.m.	Thursday			
Invited Talk				

Google Books: Making All the World's Books Universally Accessible and Useful

Jon Orwant, Engineering Manager, Google

4:30 p.m6:00 p.m.	Thursday
Work-in-Progress Reports (WiPs)	
Find out how to submit a WiP at http://www.usenix	.org/events/

atc10/posters_wips.html

6:30 p.m.-8:00 p.m.

Make your Sheraton Boston Hotel reservation early!

Special Attendee Room Rate: \$235 single/double plus 12.45% tax

- Call (617) 236-2000 and mention USENIX
- Book online at http://www.starwoodmeeting.com/ Book/usenix2010

Friday, June 25, 2010

9:00 a.m.-10:00 a.m.



Reconstructing Ancient Rome: 700 Years of IT and Knowledge Management

Friday

Maximilian Schich, DFG Visiting Research Scientist at BarabásiLab, Center for Complex Network Research at Northeastern University

10:00 a.m.–10:20 a.m.	Break
10:20 a.m.—Noon	Friday

Mining Invariants from Console Logs for System Problem Detection

Jian-Guang Lou and Qiang Fu, Microsoft Research Asia; Shengi Yang, Beijing University of Posts and Telecom; Ye Xu, Nanjing University, P.R. China; Jiang Li, Microsoft Research Asia

Wide-area Network Acceleration for the Developing World

Sunghwan Ihm, Princeton University; KyoungSoo Park, University of Pittsburgh; Vivek S. Pai, Princeton University

An Evaluation of Per-Chip Nonuniform Frequency Scaling on Multicores (Short Paper)

Xiao Zhang, Kai Shen, Sandhya Dwarkadas, and Rongrong Zhong, University of Rochester

A DNS Reflection Method for Global Traffic Management (Short Paper)

Cheng Huang, Microsoft Research; Nick Holt, Microsoft Corporation; Y. Angela Wang, Polytechnic Institute of NYU; Albert Greenberg and Jin Li, Microsoft Research; Keith W. Ross, Polytechnic Institute of NYU

Noon–1:00 p.m.	Conference Luncheon
1:00 p.m.–2:00 p.m.	Friday
Invited Talk	
RoboBees: An Autonomous Co	lony of Robotic Pollinators
Matt Welsh, Associate Professor of C	omputer Science at Harvard

University

2:00 p.m.-3:00 p.m. Fridav An Analysis of Power Consumption in a Smartphone

Aaron Carroll, NICTA and University of New South Wales; Gernot Heiser, NICTA, University of New South Wales, and Open Kernel Labs

SleepServer: A Software-Only Approach for Reducing the Energy Consumption of PCs Within Enterprise

Environments

Yuvraj Agarwal, Stefan Savage, and Rajesh Gupta, University of California, San Diego

3:00 p.m.-3:30 p.m. Break

3:30 p.m4	4:30 p.m				Friday
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FIT: An Extensible Technique for High-Precision Testing of Recovery Code

Paul D. Marinescu, Radu Banabic, and George Candea, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland

Sleepless in Seattle No Longer

Joshua Reich, Columbia University; Michel Goraczko, Aman Kansal, and Jitendra Padhye, Microsoft Research

Find out more about USENIX ATC '10 at www.usenix.org/atc10. Register online at www.usenix.org/confweek10.