

2010 USENIX Conference on Web Application Development
June 23–24, 2010
Boston, MA, USA

Message from the Program Chair v

Wednesday, June 23

10:30–Noon

Separating Web Applications from User Data Storage with BSTORE 1
Ramesh Chandra, Priya Gupta, and Nikolai Zeldovich, MIT CSAIL

AjaxTracker: Active Measurement System for High-Fidelity Characterization of AJAX Applications 15
Myungjin Lee and Ramana Rao Kompella, Purdue University; Sumeet Singh, Cisco Systems

JSMeter: Comparing the Behavior of JavaScript Benchmarks with Real Web Applications 27
Paruj Ratanaworabhan, Kasetsart University; Benjamin Livshits and Benjamin G. Zorn, Microsoft Research

1:30–3:00

JSZap: Compressing JavaScript Code 39
Martin Burtscher, University of Texas at Austin; Benjamin Livshits and Benjamin G. Zorn, Microsoft Research; Gaurav Sinha, IIT Kanpur

Leveraging Cognitive Factors in Securing WWW with CAPTCHA 51
Amalia Rusu and Rebecca Docimo, Fairfield University; Adrian Rusu, Rowan University

GULFSTREAM: Staged Static Analysis for Streaming JavaScript Applications 61
Salvatore Guarnieri, University of Washington; Benjamin Livshits, Microsoft Research

Thursday, June 24

10:30–Noon

Managing State for Ajax-Driven Web Components 73
John Ousterhout and Eric Stratmann, Stanford University

SVC: Selector-based View Composition for Web Frameworks 87
William P. Zeller and Edward W. Felten, Princeton University

Silo: Exploiting JavaScript and DOM Storage for Faster Page Loads 99
James Mickens, Microsoft Research

1:30–3:00

Pixaxe: A Declarative, Client-Focused Web Application Framework 111
Rob King, TippingPoint DV Labs

Featherweight Firefox: Formalizing the Core of a Web Browser 123
Aaron Bohannon and Benjamin C. Pierce, University of Pennsylvania

DBTaint: Cross-Application Information Flow Tracking via Databases 135
Benjamin Davis and Hao Chen, University of California, Davis

3:30–4:30

xJS: Practical XSS Prevention for Web Application Development 147
Elias Athanasopoulos, Vasilis Pappas, Antonis Krithinakis, Spyros Ligouras, and Evangelos P. Markatos, Institute of Computer Science, Foundation for Research and Technology—Hellas; Thomas Karagiannis, Microsoft Research, Cambridge

SeerSuite: Developing a Scalable and Reliable Application Framework for Building Digital Libraries by Crawling the Web 159
Pradeep B. Teregowda, Pennsylvania State University; Isaac G. Councill, Google; Juan Pablo Fernández R., Madian Kasbha, Shuyi Zheng, and C. Lee Giles, Pennsylvania State University

