

WebApps '11: 2nd USENIX Conference on Web Application Development

June 15–16, 2011

Portland, OR, USA

Message from the Program Chair v

Wednesday, June 15

10:30–Noon

GuardRails: A Data-Centric Web Application Security Framework 1
Jonathan Burket, Patrick Mutchler, Michael Weaver, Muzzammil Zaveri, and David Evans, University of Virginia

PHP Aspis: Using Partial Taint Tracking to Protect Against Injection Attacks 13
Ioannis Papagiannis, Matteo Migliavacca, and Peter Pietzuch, Imperial College London

Secure Data Preservers for Web Services 25
Jayanthkumar Kannan, Google Inc.; Petros Maniatis, Intel Labs; Byung-Gon Chun, Yahoo! Research

1:00–2:30

BenchLab: An Open Testbed for Realistic Benchmarking of Web Applications 37
Emmanuel Cecchet, Veena Udayabhanu, Timothy Wood, and Prashant Shenoy, University of Massachusetts Amherst

Resource Provisioning of Web Applications in Heterogeneous Clouds 49
Jiang Dejun, VU University Amsterdam and Tsinghua University Beijing; Guillaume Pierre, VU University Amsterdam; Chi-Hung Chi, Tsinghua University Beijing

C3: An Experimental, Extensible, Reconfigurable Platform for HTML-based Applications 61
Benjamin S. Lerner and Brian Burg, University of Washington; Herman Venter and Wolfram Schulte, Microsoft Research

3:00–4:30

The Effectiveness of Application Permissions. 75
Adrienne Porter Felt, Kate Greenwood, and David Wagner, University of California, Berkeley

Experiences on a Design Approach for Interactive Web Applications 87
Janne Kuuskeri, Tampere University of Technology

Exploring the Relationship Between Web Application Development Tools and Security 99
Matthew Finifter and David Wagner, University of California, Berkeley

Thursday, June 16

1:00–2:30

Integrating Long Polling with an MVC Web Framework 113
Eric Stratmann, John Ousterhout, and Sameer Madan, Stanford University

Detecting Malicious Web Links and Identifying Their Attack Types. 125
Hyunsang Choi, Korea University; Bin B. Zhu, Microsoft Research Asia; Heejo Lee, Korea University

Maverick: Providing Web Applications with Safe and Flexible Access to Local Devices 137
David W. Richardson and Steven D. Gribble, University of Washington