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MAY 20-23 AT THE WESTIN ST. FRANCIS, SAN FRANCISCO, CA

IEEE Symposium on Security and Privacy

Sponsored by the IEEE Computer Society Technical Committee on Security and Privacy in cooperation with the International Association for Cryptologic Research (IACR)

Co-located with the IEEE Computer Society Security and Privacy Workshops

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Poster Session

Monday, 21 May 2012
5:45-8:00pm
Security & Privacy for Shared Databases
TrustedDB: A Trusted Hardware Based Database with Privacy and Data Confidentiality
Sumeet Bajaj, Radu Sion (Stony Brook University)
An SVM-based Query Monitoring Method For Inference Control
Yikan Chen, David Evans (University of Virginia)
An Intermediate Language for Garbled Circuits
William Melicher, Samee Zahur, David Evans (University of Virginia)
(Symmetric) PIR over Arbitrary Sized Records
Ryan Henry, Yizhou Huang, Ian Goldberg (University of Waterloo)
Oblivious Storage: The Practicality of Private Access to Remote Data
Peter Williams (Stony Brook University)
Internet
Detecting and Defending Against Third-Party Tracking on the Web
Franziska Roesner (University of Washington)
Policy Management in Cloud Computing Environments
Hassan Takabi, James Joshi (University of Pittsburgh)
InViz: Instant Visualization of Security Attacks
Lucas Layman Nico Zazworka (Fraunhofer Center for Experimental Software Engineering)
Cross Cloud MapReduce: an Uncheatable MapReduce
Yongzhi Wang, Jinpeng Wei (Florida International University), Mudhakar Srivatsa (IBM T. J. Watson Research Center)
Trust No One Else: Detecting MITM Attacks Against SSL/TLS Without Third-Parties
Italo Dacosta, Mustaque Ahamad, Patrick Traynor (Georgia Institute of Technology)
A Privacy-Preserving Protocol for Gathering Statistics

Conference News
Panel Preparation
May 22, 2012
Participants who wish to prepare for the discussion on Science of Security on Wednesday afternoon should take a look at the Wikipedia entry on "Strong Inference", link. In particular, if you have time, skim Platt's paper.
Best Paper Awards!
May 22, 2012 Congratulations to the paper award winners.
Best paper award: Don't Trust Satellite Phones
Best student paper award sponsored by Google: Memento
Best practical paper award sponsored by IEEE Security and Privacy Magazine: User-Driven Access Control
Short Talks Announced
May 17, 2012
The eleven short talks for the Tuesday evening session have been announced. The list is available here.
Airport Westin Shuttle Schedule Posted
May 15, 2012
The schedule for the shuttle between the Westing San Francisco Airport and the Westin St. Francis has been posted on the travel page and the hotels page.
Poster Abstracts Added
May 14, 2012
Abstracts for (almost) all the posters in the Monday evening poster session can be viewed here.
Special Rebate Offer!
April 22, 2012
$100 off of the symposium price, for anyone paying full price in his/her category and staying at the Airport Westin and registering with our room block. See the hotels page for more details.
Call for Short Talks posted
April 20, 2012
The Call for Short Talks has been posted on the Call for Papers page. The

About Tor Users
Ryan Henry, Tariq Elahi, Ian Goldberg (University of Waterloo)
Censorship Circumvention by Tunnelling Traffic Through Email
Amir Houmansadr, Wenxuan Zhou, Matthew Caesar, Nikita Borisov (UIUC)
COGS -- Strengthening Anonymity in Tor with Guard Patience
Tariq Elahi, Kevin Bauer, Mashael AlSabah, Ian Goldberg (University of Waterloo)
Measuring the Lifecyles of Malicious Domains
Kevin Warrick, Roberto Perdisci, Kang Li (University of Georgia)
Detecting, Analyzing, & Preventing Attacks
An Extreme Value Theory Approach to Anomaly Detection (EVT-AD)
Sandra G. Dykes (Southwest Research Institute)
Security for the Common Man
Sandra G. Dykes, Will Arensman, Ronnie L. Killough (Southwest Research Institute)
Using Semantic Snippets of Malware Traces for Efficient Behavioral Analysis
Jaime C. Acosta, Brenda G. Medina (U.S. Army Research Laboratory)
Attack Survivability Prediction
Jaime C. Acosta, Brenda G. Medina (U.S. Army Research Laboratory)
Botnet Spoofing: Fighting Botnet with Itself
Cui Xiang, Jin Shuyuan, Liao Peng, Hao Zhiyu (Chinese Academy of Sciences)
Bottleneck: A Generalized, Flexible, and Extensible Framework for Botnet Defense
Naurin Rasheed Ramay, Sheharbano Khattak, Affan A. Syed (National University of Computer and Emerging Sciences, Pakistan), Syed Ali Khayam (xFlow Research)
Defining Accountability using Causation and Evidence
Anupam Datta, Dilsun Kaynar, Divya Sharma, Arunesh Sinha (Carnegie Mellon University)
Software Interfaces & Correctness
Rethinking Operating System Interfaces to Support Robust Applications
W. Michael Petullo, Jon A. Solworth (University of Illinois at Chicago)
CASTOR: Container Allowing for Secure and Trustworthy OS Refinement
Jan Nordholz, Michael Peter, Jean-Pierre Seifert (Technische Universität Berlin)
User Request as a means to Automate Authorization Hook Placement
Divya Muthukumaran, Trent Jaeger (Pennsylvania State University) Vinod Ganapathy (Rutgers University)
Sting: Finding Name Resolution Vulnerabilities in Programs
Hayawardh Vijayakumar, Joshua Schiffman, Trent Jaeger

deadline for submission of abstracts is May 11, 2012.
List of accepted posters available
April 15, 2012
The list of accepted posters can now be viewed posters. The poster session will be Monday, May 21 from 5:45-8:00pm.
Panel of experts formed
April 6, 2012
The panel discussion on Wednesday afternoon will be titled: "How can a focus on "science" advance research in cybersecurity?". Discussion will be moderated by Carl Landwehr. See the program for a detailed description and list of distinguished panelists.
Student Travel Grants Awarded
April 5, 2012
The IEEE S&P 2012 Organizing Committee has awarded 24 student travel grants. More information is available in the "News Bulletin" section of the press page.
Registration Open
March 1, 2012
Registration for the 2012 symposium is now open.
Program Posted
February 22, 2012
The conference program has been posted.
Hotel Booking Available
February 13, 2012
Hotel details have been posted. There are room blocks available at two San Francisco area hotels. Conference registration information will follow shortly.
Call For Posters
February 13, 2012
Adam Chlipala has been named as this years Poster Session Chair. Poster submission details have been posted. The deadline for abstracts is April 6, 2012.
Tentative Skeleton Program Posted
January 28, 2012
Program details are still being finalized. Attendees from past years should be aware that the conference is likely to continue later into Wednesday afternoon than in prior years.
Student Travel Grants
January 10, 2012
Information for students who wish to apply for travel grants is now posted here.
2012 Donors Rolling In
December 16, 2011
Many have already generously donated to the 2012 symposium. Information about donating and the benefits therein can be found here.
2011 Proceedings Available Online
November 1, 2011
All the papers for the 2011 symposium have been made available free of charge at ieee-security.org.
New Venue Confirmed!
October 10, 2011
The 2012 conference will be held at the Westin St. Francis. Detailed hotel and travel information has been posted on the travel page.
Call For Donors Posted
September 12, 2011
Information about donating to the IEEE Symposium on Security and Privacy

(Pennsylvania State University)

[ScanDal: Static Analyzer for Detecting Privacy Leaks in Android Applications](#)

Jinyung Kim, Yongho Yoon, Kwangkeun Yi (Seoul National University), Junbum Shin (DMC R&D, Samsung Electronics)

Wireless, Mobile, & Embedded

[Evidence Theory for Reputation-based Trust in Wireless Sensor Networks](#)

Björn Stelte, Andreas Matheus (Universität der Bundeswehr München)

[The Shy Mayor: Private Badges in GeoSocial Networks](#)

Bogdan Carbunar (Florida International University), Radu Sion (Stony Brook University), Rahul Potharaju (Purdue University), Moussa Ehsan (Stony Brook University)

[TARDIS - Secure Time Keeping For Embedded Devices Without Clocks](#)

Amir Rahmati, Mastooreh Salajegheh (UMass Amherst), Dan Holcomb (UC Berkeley), Jacob Sorber (Dartmouth College), Wayne Burleson, Kevin Fu (UMass Amherst)

[Improving SCADA Security with Context-aware Network Profiling](#)

Dina Hadziosmanovic (University of Twente), Robin Sommer (International Computer Science Institute & Berkeley National Laboratory), Damiano Bolzoni (University of Twente), Pieter Hartel (University of Twente)

[Fine-Grained Locking System for Data and Applications in Smartphones](#)

Ildar Muslukhov, Yazan Boshmaf, Konstantin Beznosov (University of British Columbia), Cynthia Kuo, Jonathan Lester (Nokia Research Center)

[A Multilevel Security Model for Wireless Sensor Networks](#)

Chao Lee, Li-Hua Yin, Yun-Chuan Guo (Chinese Academy of Sciences)

Potpourri

[Hardware and Software Emission Analysis](#)

Dmitry Nedospasov, Jean-Pierre Seifert, Alexander Schlosser, Susanna Orlic (Technische Universitat Berlin)

[Publishing Sensitive Cybersecurity Research](#)

Deb Frincke, Brad Martin (ODNI/NSA), Amy Oaks LoPresti (The Johns Hopkins University)

["Assumption Busters" -- A Public-Private Discussion on Critical Cyber](#)

Brad Martin (ODNI/NSA)

Workshops

[TrustED 2012](#)

Frederik Armknecht (University of Mannheim), Heike Neumann (NXP Semiconductors), Ahmad-Reza Sadeghi (Technical University Darmstadt & Fraunhofer SIT)

Workshop on Semantic Computing and Security (WSCS) Hilarie Orman (Purple Streak), Alessandro Armando (University of Genova & Fondazione Bruno Kessler)

and the IEEE Security and Privacy Workshops has been posted [here](#).

Call For Papers Posted

August 12, 2011

The 2012 IEEE Symposium on Security and Privacy Call for Papers is now posted [here](#).

Workshop Proposal Deadlines Approaching

August 11, 2011

IEEE S&P Workshop proposals have been accepted, but room is still available, and the deadline, August 15, 2011, is approaching for the second round of proposals. More information available [here](#).

New Website Up

June 21, 2011

The new version of the 2012 conference website is now up.

Found an error? E-mail ajohnson@seas.harvard.edu.