Lecture Notes in Computer Science 4776

Commenced Publication in 1973
Founding and Former Series Editors:
Gerhard Goos, Juris Hartmanis, and Jan van Leeuwen

Editorial Board

Nikita Borisov Philippe Golle (Eds.)

Privacy Enhancing Technologies

7th International Symposium, PET 2007
Ottawa, Canada, June 20-22, 2007
Revised Selected Papers

Springer

Volume Editors

Nikita Borisov
University of Illinois at Urbana-Champaign
Department of Electrical and Computer Engineering
1308 West Main Street, Urbana, IL 61801-2307, USA
E-mail: nikita@uiuc.edu

Philippe Golle
Palo Alto Research Center
3333 Coyote Hill Road, Palo Alto, CA 94304, USA
E-mail: Philippe.Golle@parc.com

Library of Congress Control Number: 2007938055

CR Subject Classification (1998): E.3, C.2, D.4.6, K.6.5, K.4, H.3, H.4

LNCS Sublibrary: SL 4 – Security and Cryptology

ISSN 0302-9743
ISBN-10 3-540-75550-0 Springer Berlin Heidelberg New York
ISBN-13 978-3-540-75550-0 Springer Berlin Heidelberg New York

Springer is a part of Springer Science+Business Media

springer.com

Printed in Germany

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India
Printed on acid-free paper SPIN: 12171590 06/3180 5 4 3 2 1 0

Foreword

The PET community has grown in size considerably since the first PET workshop was held in 2000. With this growth came an increase in the number and quality of submissions. PET has become a premier venue for publishing original research on privacy enhancing technologies, and the current acceptance ratio puts PET in the same league as other highly selective security and privacy venues. To appropriately reflect this evolution, the PET workshop is changing its name to the *Privacy Enhancing Technologies Symposium*.

PET 2007 was held at the University of Ottawa, Canada, on June 20–22, 2007. We received 84 full-paper submissions, of which 16 were selected for presentation at the symposium. PET also included a keynote address and two panel discussions. PET was once again collocated with the IAVoSS Workshop on Trustworthy Elections (WOTE 2007), with a full day of plenary sessions. All participants were free to attend sessions from both events.

The program chairs would like to thank, first of all, the authors, speakers, and panelists for their contribution to the content of the workshop. We would also like to thank the program committee for their hard work of a month of reviews and two more weeks of intense discussions, helping to ensure a program of high scientific quality. As well, we would like to acknowledge the contribution of the external reviewers, who assisted the program committee with the reviews. A special thanks is due to the designers of the Websubmission and Webreview software at K.U. Leuven for allowing us to use their software to help with the selection process, and to Thomas Herlea for his help in getting the software up and running.

Our general chair, Carlisle Adams, did an outstanding job taking care of the local arrangements and making sure the symposium ran smoothly. We also would like to thank Jeremy Clark for designing and maintaining the PET 2007 Website. We are very grateful to Josh Benaloh, the chair of WOTE 2007, for his help in coordinating the two events. Finally, PET 2007 was made possible, and more affordable, thanks to our sponsors: Microsoft, ORNEC, Bell Privacy Centre of Excellence, PGP Corporation, and Google. We are extremely grateful for their generous support.

The Award for Outstanding Research in Privacy Enhancing Technologies was given this year to Stephen C. Bono, Matthew Green, Adam Stubblefield, Ari Juels, Aviel D. Rubin, and Michael Szydlo for their paper "Security Analysis of a Cryptographically-Enabled RFID Device." The award is sponsored by Microsoft and by the Office of the Information and Privacy Commissioner of Ontario and the winners were selected through an independent prize committee headed by George Danezis to whom we are thankful.

July 2007

Nikita Borisov
Philippe Golle

Organization

Organizers

General Chair	Carlisle Adams (University of Ottawa, Canada)
Program Chairs	Nikita Borisov (University of Illinois at Urbana-Champaign, USA)
	Philippe Golle (Palo Alto Research Center, USA)
PET Prize	George Danezis (K.U. Leuven, Belgium)
Stipends	Roger Dingledine (The Tor Project, USA)

Program Committee

Alessandro Acquisti (Carnegie Mellon University, USA)
Mikhail Atallah (Purdue University, USA)
Michael Backes (Saarland University, Germany)
Alastair Beresford (University of Cambridge, UK)
Jean Camp (Indiana University, USA)
George Danezis (K.U. Leuven, Belgium)
Claudia Díaz (K.U. Leuven, Belgium)
Roger Dingledine (The Tor Project, USA)
Cynthia Dwork (Microsoft Research, USA)
Simson Garfinkel (Harvard University, USA)
Ian Goldberg (University of Waterloo, Canada)
Susan Hohenberger (Johns Hopkins University, USA)
Dennis Kügler (Federal Office for Information Security, Germany)
Bradley Malin (Vanderbilt University, USA)
David Martin (University of Massachusetts at Lowell, USA)
Nick Mathewson (The Tor Project, USA)
David Molnar (University of California at Berkeley, USA)
Steven Murdoch (University of Cambridge, UK)
Andreas Pfitzmann (Dresden University of Technology, Germany)
Mike Reiter (University of North Carolina at Chapel Hill, USA)
Andrei Serjantov (The Free Haven Project, UK)
Vitaly Shmatikov (University of Texas at Austin, USA)
Paul Syverson (Naval Research Laboratory, USA)
Matthew Wright (University of Texas at Arlington, USA)

External Reviewers

Mike Bergmann
Alexander Böttcher
Katrin Borcea-Pfitzmann
Sebastian Clauß
Richard Clayton
Markus Duermuth
David Evans
Anna Lisa Ferrara
Elke Franz
Bikas Gurung
Thomas Heydt-Benjamin
Yong Ho Hwang
Ponnurangam Kumaraguru
Haim Levkowitz
Benyuan Liu
Matteo Maffei
Sasha Romanosky
Sandra Steinbrecher
Carmela Troncoso
Lasse Øverlier

Sponsors

Microsoft
ORNEC
Bell Privacy Centre of Excellence
PGP Corporation
Google

Table of Contents