CARDIS '02
Fifth Smart Card Research and Advanced Application Conference

Sponsored by USENIX, the Advanced Computing Systems Association, and the IFIP Working Group 8.8 (Smart Cards)

http://www.usenix.org/events/cardis02

November 20-22, 2002   **Hyatt Ste. Claire, San Jose, California, USA**

Important Dates

Submissions due: *June 24, 2002*
Notification of acceptance: *August 12, 2002*
Camera-ready final papers due: *September 23, 2002*

Overview

Smart card research is of increasing importance as the need for information security increases rapidly, especially in response to new, urgent demands. Since 1994, CARDIS has been the premier international research conference dedicated to smart cards and their applications.

CARDIS '02, the joint IFIP/USENIX International Conference on Smart Card Research and Advanced Applications, constitutes the Fifth IFIP CARDIS conference and the Second USENIX conference on Smart Card Technology. Like its predecessors, CARDIS '02 will bring together researchers and practitioners in the development and deployment of smart card systems and technologies.

Aims and Goals

The portability, processing power, and tamper resistance of smart cards offers a platform for secure conditional access to information and applications. Smart cards significantly extend the scope of distributed systems by providing a trusted platform for cryptographically secured computation and storage. Notwithstanding their long history, relative to modern computing, the applicability of smart cards in distributed systems remains an untapped resource, limited mainly by our imagination and understanding. Here lie vast uncovered research areas that will have a huge impact on the eventual success of the technology. The research challenges span many domains, including hardware design, cryptographic applications, distributed system architecture, and formal modeling.

Unlike events devoted to commercial and application aspects of smart cards, the CARDIS conferences bring together researchers who are active in all aspects of the design, validation, and application of smart cards. The breadth of smart card research stimulates a synergy among disparate research communities, making CARDIS an ideal opportunity to present the latest research advances.

Call for Papers

The program committee seeks papers describing the design, application, and validation of smart card technologies. Submissions across a broad range of smart card development phases are encouraged, from exploratory research and proof-of-concept studies to practical application and deployment of smart card technology.

Topics

The following topics are of particular interest to the program committee:

- Application loading
- Smart card operating systems
- Virtual machines
- Integrated development environments
- High-speed, small-footprint encryption
- Cryptographic accelerators
- On-card data sharing schemes
- Smart cards in the Internet
- Automatic mask generation
- Emerging opportunities for standardization
- Smart tokens and other competing technologies
- Alternative form factors for smart card chips
- Smart card application program interfaces
- Trends in smart card hardware
- Research in tamper-resistance
- Hardware and software certification
- Security validation and benchmarks
- Biometrics involving smart cards

Refereed Papers

Papers that have been formally reviewed and accepted will be presented during the conference and published in the conference proceedings. The proceedings will be distributed to attendees and, following the conference, will be available online to USENIX members and for purchase.

Best Paper Awards

Awards will be given at the conference for the best paper and the best paper that is primarily the work of a student.

How and Where To Submit Refereed Papers

Papers should represent novel scientific contributions related to the topics listed above. Both the work described in the paper and the paper itself must be substantially complete at the time of the submission. Full papers are encouraged, and should be about 8 to 14 typeset pages using an 11 pt font or larger. Submissions must be received by June 24, 2002.

Papers will be accepted electronically, via a Web submission form on the CARDIS Web site, and must be in PDF format (e.g., processed by Adobe's Acrobat Distiller). Please make sure your submission can be opened using Adobe Acrobat 4.0.

All submissions will be acknowledged electronically. If you have not received an acknowledgment within 48 hours of submitting your paper electronically, please contact the program chair at *cardis02chair@usenix.org*.

For details on the submission process, authors are encouraged to consult the detailed author guidelines on the CARDIS Web site at: *http://www.usenix.org/events/ cardis02/cfp/guidelines.html*.

All submissions will be judged on originality, contribution to the field, and correctness. Accepted papers may be assigned a member of the program committee to act as its shepherd through the preparation of the final paper. The shepherd will act as a conduit for feedback from the committee to the authors. Authors will be notified of acceptance by August 12, 2002. Camera-ready final paper due date is September 23, 2002.

The program committee requires that papers not be submitted simultaneously to another conference or publication and that submitted papers not be previously or subsequently published elsewhere. When appropriate, authors should arrange for a release for publication from their employer prior to submission. Papers accompanied by non-disclosure agreement forms are unacceptable and will be returned to the author(s) unread. Submitted manuscripts will be read by the program committee and other selected members of the technical community for the purposes of technical review, but otherwise will be held in strict confidence.

Specific questions about submissions may be sent via email to *cardis02chair@usenix.org*.

Conference Organizers

Program Chair
Peter Honeyman, *CITI, University of Michigan*
Program Committee
Isabelle Attali, *INRIA Sophia Antipolis*
Boris Balacheff, *Hewlett Packard Labs, Bristol*
Yves Deswarte, *LAAS-CNRS, Toulouse*
Josep Domingo-Ferrer, *Universitat Rovira i Virgili, Tarragona*
Pieter Hartel, *Department of Computer Science, University of Twente*
Dirk Husemann, *IBM Research, Zurich*
Sebastien Jean, *LIFL, Lille*
Thomas Jensen, *IRISA/CNRS, Rennes*
Roger Kilian-Kehr, *T-Systems Nova GmbH, Darmstadt*
Marc Joye, *Gemplus, Gemenos*
Xavier Leroy, *INRIA, Rocquencourt and Trusted Logic, Versailles*
Bernd Meyer, *Siemens AG, München*
Mike Montgomery, *SchlumbergerSema, Austin*
Joachim Posegga, *SAP Corporate Research, Karlsruhe*
Ton van der Putte, *Atos Origin, Utrecht*
Jean-Jacques Quisquater, *UCL, Louvain-la-Neuve*
Rüdiger Weis, *CryptoLabs, Amsterdam*

Registration Materials

Complete program and registration information will be available in August 2002 here on the conference Web site. The information will be in both html and a printable PDF file. If you would like to receive the program booklet in print, please email your request, including your postal address, to: *conference@usenix.org*.