

# 3rd USENIX Workshop on Electronic Commerce Including Invited Presentations on Public Key Infrastructure

August 31–September 3, 1998

Tremont Hotel

Boston, Massachusetts

Sponsored by USENIX, the Advanced Computing Systems Association

## Important Dates

Extended abstracts due: *March 6, 1998*

Notification to authors: *April 17, 1998*

Camera-ready final papers due: *July 21, 1998*

## Program Committee

**Chair:** Bennet S. Yee, *UC San Diego*

**Public Key Infrastructure Coordinator:** Daniel Geer, CertCo, LLC

Ross Anderson, *Cambridge University*

Nathaniel Borenstein, *First Virtual*

Marc Donner, *Morgan Stanley*

Niels Ferguson, *Digicash*

Mark Manasse, *Digital Equipment Corp.*

Cliff Neuman, *University of Southern California*

Avi Rubin, *AT&T Labs*

Win Treese, *OpenMarket*

Doug Tygar, *Carnegie Mellon University*

Hal Varian, *UC Berkeley*

## Overview

The Third Workshop on Electronic Commerce will provide a major opportunity for researchers, experimenters, and practitioners in this rapidly self-defining field to exchange ideas and present the results of their work. It will set the technical agenda for work in electronic commerce by enabling workers to examine urgent questions, share their insights and discover connections with other work that might otherwise go unnoticed. To facilitate this, the conference will not be limited to technical problems and solutions, but will also consider their context: the economic and regulatory forces that influence the engineering choices we make, and the social and economic impact of network based trading systems.

Each of the Workshop's three days will have two sessions focused on Public Key Infrastructures (PKI). This series of invited speakers and debates will examine the role and possible mechanisms of PKI in the future of electronic commerce. Emphasis will be on the practical side—actual field cases—and learning from experience. We seek, as engineers, to determine which of the various competing PKI claims are sustainable and practical, and, as business people, to learn what of the available PKI technology is actually correlated with our needs as they truly are.

The Workshop on Electronic Commerce will begin with tutorials which offer in-depth instruction in essential technologies. The one day of tutorials will be followed by three days of refereed papers and panel presentations examining topics in electronic

commerce as well as the invited sessions exploring Public Key Infrastructures. A keynote speaker will round out the program. A hosted reception on Wednesday evening and evening Birds-of-a-Feather sessions will provide opportunities for attendees to meet together informally.

USENIX will publish Conference Proceedings which are provided free to technical session attendees; additional copies will be available for purchase from USENIX.

## Tutorials Proposals Welcome

One day of tutorials, on August 31, will start off the Workshop. USENIX's well-respected tutorials are intensive and provide immediately-useful information delivered by skilled instructors who are hands-on experts in their topic areas. Topics for the Electronic Commerce Workshop will include, but are not limited to, security and cryptography.

If you are interested in presenting a tutorial, please contact:

Dan Klein, Coordinator

Email: [dvk@usenix.org](mailto:dvk@usenix.org)

Phone: 412.421.2332

## Public Key Infrastructures Sessions

We welcome your suggestions of participants, topics and format. All speakers will be invited. Please contact the PKI Sessions Coordinator, DanGeer, at [geer@world.std.com](mailto:geer@world.std.com).

## Workshop Topics

We welcome submissions for technical and position paper presentations, reports of work-in-progress, technology debates, and identification of new open problems.

We seek papers that address a wide range of issues and ongoing developments, including, but not limited to:

Advertising	Electronic wallets	Proposed systems
Anonymous transactions	Email-enabled business	Protocols
Auditability	Exception handling	Reliability
Business issues	Identity verification	Reports on existing systems
Copy protection	Internet direct marketing	Rights management
Credit/Debit/Cash models	Internet/WWW integration	Service guarantees
Cryptographic security	Key management	Services vs. digital goods
Customer service	Legal and policy issues	Settlement
Digital money	Micro-transactions	Smart-cards
EDI	Negotiations	
Electronic libraries	Privacy	

Questions regarding a topic's relevance to the workshop may be addressed to the program chair via electronic mail to [ec98chair@usenix.org](mailto:ec98chair@usenix.org).

## What to Submit

Technical paper submissions and proposals for panels must be received by March 6, 1998. We welcome submissions of the following type:

1. Refereed Papers—Full papers or extended abstracts should be five to 20 pages, not counting references and figures.
2. Panel proposals—Proposals should be three to seven pages, together with a list of names of potential panelists. If accepted, the proposer must secure the participation of panelists, and prepare a three to seven page summary of panel issues for inclusion in the Proceedings. This summary can include position statements by panel participants.
3. Work-In-Progress Reports—Short, pithy, and fun, WIP reports introduce interesting new or ongoing work and should be 1 to 3 pages in length. If you have work you would like to share or a cool idea that is not quite ready to publish, a WIP is for you! We are particularly interested in presenting student work.

Each submission must include a cover letter stating the paper title and authors, along with the name of the person who will act as the contact to the program committee. Please include a surface mail address, daytime and evening phone number, email and fax numbers and, if available, a URL for each author. If any of the authors are students, please indicate that in the cover letter for award consideration (see "Cash Prizes" below).

USENIX workshops, like most conferences and journals, require that papers not be submitted simultaneously to more than one conference or publication and that submitted papers not be previously or subsequently published elsewhere. Submissions accompanied by non-disclosure agreement forms are not acceptable and will be returned to the author(s) unread. All submissions are held in the highest confidentiality prior to publication in the Proceedings, both as a matter of policy and in accord with the U.S. Copyright Act of 1976.

## Where to Submit Proposals

Please send submissions to the program committee via one of the following methods. All submissions will be acknowledged.

- Preferred Method: email (Postscript or PDF formats only) to: [ec98papers@usenix.org](mailto:ec98papers@usenix.org).
- Files should be encoded for transport with uuencode or MIME base64 encoding.

Authors should ensure that the PostScript is generic and portable so that their papers will print on a broad range of postscript printers, and should submit in sufficient time to allow us to contact the author about alternative delivery mechanisms in the event of network or other failure. If you send PostScript, remember the following:

- Use only the most basic fonts (TimesRoman, Helvetica, Courier). Other fonts are not available with every printer or previewer.
- PostScript that requires some special prolog to be loaded into the printer won't work for us. Please don't send it.

- If you use a PC- or Macintosh-based word processor to generate your PostScript, print it on a generic PostScript printer before sending it, to make sure that the PostScript is portable.
- If you are generating the PostScript from a program running under Windows, make sure that you establish the "portable" setting, not the "speed" setting for PostScript generation.

A good heuristic is to make sure that recent versions of Ghostview (e.g. Ghostview 1.5 using Ghostscript 3.33) can display your paper.

- **Alternate Method:** 10 copies, via postal delivery to:

EC'98 Submissions  
USENIX Association  
2560 Ninth Street, Suite 215  
Berkeley, CA 94710

For detailed submission guidelines, send email to [ec98authors@usenix.org](mailto:ec98authors@usenix.org), refer to the conference Web page at [www.usenix.org/events/ec98/guidelines.html](http://www.usenix.org/events/ec98/guidelines.html), or send email to the program chair at [ec98chair@usenix.org](mailto:ec98chair@usenix.org).

## Birds-Of-A-Feather Sessions (BoFs)

Do you have a topic that you'd like to discuss with others? Birds-of-a-Feather Sessions may be perfect for you. BoFs are very interactive and informal gatherings for attendees interested in a particular topic. Schedule your BoF in advance by telephoning the USENIX Conference Office at 714.588.8649 or sending email to: [conference@usenix.org](mailto:conference@usenix.org).

## Cash Prizes

The program committee will offer awards of \$500 for the best paper and the best student paper.

## Registration Information

Complete technical and tutorial programs, registration fees and forms and hotel information will be available in June, 1998, on the conference Web page, [www.usenix.org/events/ec98/](http://www.usenix.org/events/ec98/). The information will also be printable from a PDF file located on the Web site.

If you would like to receive the printed program booklet, please request it at any time by email to [conference@usenix.org](mailto:conference@usenix.org).

## About USENIX

USENIX is the Advanced Computing Systems Association. Since 1975 USENIX has brought together the community of engineers, system administrators, and technicians working on the cutting edge of the computing world. For more information about USENIX:

**URL:** [www.usenix.org](http://www.usenix.org)  
**Email:** [office@usenix.org](mailto:office@usenix.org)  
**Fax:** 510.548.5738  
**Phone:** 510.528.8649