

Preface

Crypto '99, the Nineteenth Annual Crypto Conference, was sponsored by the International Association for Cryptologic Research (IACR), in cooperation with the IEEE Computer Society Technical Committee on Security and Privacy and the Computer Science Department, University of California, Santa Barbara (UCSB). The General Chair, Donald Beaver, was responsible for local organization and registration.

The Program Committee considered 167 papers and selected 38 for presentation. This year's conference program also included two invited lectures. I was pleased to include in the program Ueli Maurer's presentation "Information-Theoretic Cryptography" and Martin Hellman's presentation "The Evolution of Public-Key Cryptography." The program also incorporated the traditional Rump Session for informal short presentations of new results, run by Stuart Haber.

These proceedings include the revised versions of the 38 papers accepted by the Program Committee. These papers were selected from all the submissions to the conference based on originality, quality, and relevance to the field of cryptology. Revisions were not checked, and the authors bear full responsibility for the contents of their papers.

The selection of papers was a difficult and challenging task. I wish to thank the Program Committee members who did an excellent job in reviewing papers and providing useful feedback to authors. Each submission was refereed by at least three reviewers. The Program Committee was assisted by many colleagues who reviewed submissions in their areas of expertise. My thanks go to all of them. External Reviewers included Michel Abdalla, Masayuki Abe, Bill Aiello, Kazumaro Aoki, Olivier Baudron, Don Beaver, Josh Benaloh, John Black, Simon Blackburn, Carlo Blundo, Dan Boneh, Johan Borst, Antoon Bosselaers, Christian Cachin, Jan Camenisch, Ran Canetti, Suresh Chari, Jean-Sébastien Coron, Janos Csirik, Erik De Win, Giovanni Di Crescenzo, Serge Fehr, Matthias Fitzi, Matt Franklin, Atsushi Fujioka, Juan Garay, Louis Granboulan, Shai Halevi, H  l  na Handschuh, Kim Harrison, Martin Hirt, Russell Impagliazzo, Markus Jakobsson, Mariusz Jakubowski, Thomas Johansson, Marc Joye, Ari Juels, Charanjit Jutla, Burt Kaliski, Masayuki Kanda, Olaf Keller, Kunio Kobayashi, Tetsutaro Kobayashi, Ted Krovetz, Eyal Kushilevitz, Yue Lai, Susan Langford, Yishay Mansour, Keith Martin, Jim Massey, Phil MacKenzie, Andrew Mertz, Markus Michels, Victor Miller, Shiho Moriai, David Naccache, Moni Naor, Phong Nguyen, Tatsuoaki Okamoto, Carles Padr  , Pascal Paillier, Benny Pinkas, David Pointcheval, Guillaume Poupard, Vincent Rijmen, Kazuo Sako, Kouichi Sakurai, Louis Salvail, Berry Schoenmakers, Nigel Smart, Jessica Staddon, Jacques Stern, Julien P. Stern, Douglas Stinson, Stuart Stubblebine, Youichi Takasima, Keisuke Tanaka, Shigenori Uchiyama, Salil Vadhan, Ramarathnam Venkatesan, Ruizhong Wei, Avishai Wool, Yacov Yacobi, Lisa Yin, and Adam Young. I apologize for any inadvertent omissions.

The practice of accepting submissions electronically was continued for Crypto '99. Authors chose the electronic submission option for all but four papers. All credit for

the smooth electronic submission process goes to Joe Kilian, who handled all aspects and delivered a convenient directory full of submissions.

In organizing the scientific program and putting together these proceedings, I have been assisted by many people in addition to those mentioned above. In particular, I'd like to thank: Hugo Krawczyk, the Program Chair for Crypto '98, for his good advice and patience in answering my many questions; Don Coppersmith for his help throughout the review process; Donald Beaver, the General Chair of the conference, for freeing me from all issues not directly related to the scientific program and proceedings; Serge Mister for editing postscript submissions so that they would view and print acceptably; and Debbie Morton for secretarial help, particularly in helping to organize the Program Committee meeting.

Finally, I wish to thank all the authors who submitted papers, making this conference possible, and the authors of accepted papers for updating their papers in a timely fashion, allowing the production of these proceedings.

June 1999

Michael J. Wiener
Program Chair

CRYPTO '99

August 15-19, 1999, Santa Barbara, California, USA

Sponsored by the

International Association for Cryptologic Research (IACR)

in cooperation with

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<http://www.springer.com/978-3-540-66347-8>

Advances in Cryptology - CRYPTO '99

19th Annual International Cryptology Conference, Santa
Barbara, California, USA, August 15-19, 1999

Proceedings

Wiener, M. (Ed.)

1999, XII, 648 p., Softcover

ISBN: 978-3-540-66347-8