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Mihir Bellare (Ed.)

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Crypto2000 was the 20th Annual Cryptoconference. It 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 of the University of California at Santa Barbara. The conference received 120 submissions, and the program committee selected 32 of these for presentation.

Extended abstracts of revised versions of these papers are in these proceedings.

The authors bear full responsibility for the contents of their papers. VI Preface The web-review software we used was written for Eurocrypt 2000 by Wim

Moreau and Joris Claessens under the direction of Eurocrypt 2000 program chair Bart Preneel, and I thank them for allowing us to deploy their useful and colorful device. n.a. abstracts into the proceedings you see here. ? Mart? She types faster than I speak. cult cases. ? n' stalk is included in these proceedings.

In the second phase, committee members used the software to browse each other's reports, discuss, and update their own reports. Meaw) who provided systems, logistical, and moral support for the entire Crypto2000 process. ected in these proceedings. She

wrote the software for the web-based submissions, adapted and ran the web-review software at UCSD, and compiled the ?rst time used a web interface rather than email. (Perhaps as a result, there were no hard copy submissions.) The submission review process had three phases. In the ?

Finally thank to Matt Franklin who as general chair was in charge of the local organization and ?

The conference program also included its traditional "rumpsession" of short, informal or impromptu presentations, chaired this time by Stuart Haber.

Lastly there was a program committee meeting to discuss the di? An abstract corresponding to Mart? I am extremely grateful to the program committee members for their enormous investment of time, effort, and adrenaline in the di? cult and delicate process of review and selection.

(A list of program committee members and

referees they invoked can be found on succeeding pages of this volume.) I also

thank the authors of submitted papers - in equal measure regardless of whether their papers were accepted or not - for their submissions. It is the work of this body of researchers that makes this conference possible.

I thank Rebecca Wright for hosting the program committee meeting at the AT&T building in New York City and managing the local arrangements, and Ran Canetti for organizing the post-PC-meeting dinner with his characteristic gastronomic and enophilic ? surroundings.

The conference program included two invited lectures. I am most grateful to Chanathip Namprempre (aka. These presentations are not ? A nelectronics submission process was available and recommended, but for the ?

Don Coppersmith's presentation "The development of DES" recorded his involvement with one of the most important cryptographic developments ever, namely the Data Encryption Standard, and was particularly apt given the imminent selection of the

Advanced Encryption Standard. n. Abadi's presentation "Taming the adversary" was about bridging the gap between useful but perhaps simplistic threat abstractions and rigorous adversarial models, or perhaps, even more generally, between viewpoints of these security and cryptography communities.

I am grateful to Hugo Krawczyk for his insight and advice, provided over a

long period of time with his usual combination of honesty and charm, and to him and other past program committee chairs, most notably Michael Wiener and Bart Preneel, for replies to the host of questions I posed during the process. In addition I received useful advice from many members of our community including Silvio Micali, Tal Rabin, Ron Rivest, Phil Rogaway, and Adi Shamir. In the first phase, program committee members compiled reports (assisted at their discretion by sub-referees of their choice, but without interaction with other program committee members) and entered them, via web forms, into a web-review software running at UCSD.



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