Table of Contents

Invited Talks
Some Applications of Polynomials for the Design of Cryptographic Protocols
Secure Multi-party Computation Made Simple
Forward Security
Forward Secrecy in Password-Only Key Exchange Protocols
Weak Forward Security in Mediated RSA
Foundations of Cryptography
On the Power of Claw-Free Permutations
Equivocable and Extractable Commitment Schemes
An Improved Pseudorandom Generator Based on Hardness of Factoring 88 Nenad Dedić, Leonid Reyzin (Boston University), and Salil Vadhan (Harvard University)
Intrusion-Resilient Signatures: Generic Constructions, or Defeating Strong Adversary with Minimal Assumptions
Key Management
Efficient Re-keying Protocols for Multicast Encryption
On a Class of Key Agreement Protocols Which Cannot Be Unconditionally Secure

A Group Key Distribution Scheme with Decentralised User Join
Cryptanalysis
On a Resynchronization Weakness in a Class of Combiners with Memory
On Probability of Success in Linear and Differential Cryptanalysis 174 Ali Aydın Selçuk (Purdue University) and Ali Bıçak (University of Maryland Baltimore County)
Differential Cryptanalysis of a Reduced-Round SEED
System Security
Medical Information Privacy Assurance: Cryptographic and System Aspects
A Format-Independent Architecture for Run-Time Integrity Checking of Executable Code
Signature Schemes
How to Repair ESIGN
Forward-Secure Signatures with Fast Key Update
Constructing Elliptic Curves with Prescribed Embedding Degrees 257 Paulo S.L.M. Barreto (Universidade de São Paulo), Ben Lynn (Stanford University), and Michael Scott (Dublin City University)
A Signature Scheme with Efficient Protocols

Zero Knowledge
Efficient Zero-Knowledge Proofs for Some Practical Graph Problems 290 Yvo Desmedt (Florida State University and University of London) and Yongge Wang (University of North Carolina at Charlotte)
Reduction Zero-Knowledge
A New Notion of Soundness in Bare Public-Key Model
Information Theory and Secret Sharing
Robust Information-Theoretic Private Information Retrieval
Trading Players for Efficiency in Unconditional Multiparty Computation 342 B. Prabhu, K. Srinathan, and C. Pandu Rangan (Indian Institute of Technology)
Secret Sharing Schemes on Access Structures with Intersection Number Equal to One
Author Index