

International School on Foundations of Security Analysis and Design

17–29 September 2001, 23–27 September 2002, Bertinoro, Italy

Security is a fast-growing area of computer science, with increasing relevance to real-life applications such as Internet transactions and electronic commerce. Foundations for the analysis and the design of security aspects of these applications are badly needed in order to validate and prove (or guarantee) their correctness. Recently an IFIP Working Group on “Theoretical Foundations of Security Analysis and Design” was established (see <http://www.dsi.unive.it/IFIPWG1.7/> for more details) in order to promote research and education in security-related issues.

One of the many initiatives of the IFIP WG 1.7 has been the creation of the “International School on Foundations of Security Analysis and Design” (FOSAD) that is held annually at the Residential Centre of the University of Bologna in Bertinoro, with the goal of disseminating knowledge in this critical area, especially for participants coming from less-favored and non-leading countries. The Residential Center (see <http://www.centrocongressibertinoro.it/>) is a former convent and episcopal fortress that has been transformed into a modern conference facility with computing services and Internet access.

The first edition of this school (FOSAD 2000) was very successful and the collection of tutorial lectures was published in Springer LNCS volume 2171. This second volume collects some of the tutorials given at the two successive schools (FOSAD 2001 and FOSAD 2002) that attracted many participants from all over the world.

This volume collects six tutorial lectures given at these two schools. More precisely:

- Alessandro Aldini, Mario Bravetti, Alessandra Di Pierro, Roberto Gorrieri, Chris Hankin and Herbert Wiklicky (Two Formal Approaches for Approximating Noninterference Properties);
- Carlo Blundo and Paolo D’Arco (The Key Establishment Problem);
- Michele Bugliesi, Giuseppe Castagna, Silvia Crafa, Riccardo Focardi, Vladimiro Sassone (A Survey of Name-Passing Calculi and Cryptoprimitives);
- Roberto Gorrieri, Riccardo Focardi and Fabio Martinelli (Classification of Security Properties – Part II: Network Security);
- Rosario Gennaro (Cryptographic Algorithms for Multimedia Traffic);
- Hanne Riis Nielson, Flemming Nielson and Mikael Buchholtz (Security for Mobility).

We want to thank all the institutions that have supported the initiatives: CNR-IAT, ONR, Università Ca’ Foscari di Venezia, Università di Bologna, Progetto MURST “Metodi Formali per la Sicurezza e il Tempo” (MEFISTO), and

EU-FET project MyThS: Models and Types for Security in Mobile Distributed Systems. Moreover, the school was held under the auspices of the European Association for Theoretical Computer Science (EATCS – Italian Chapter), the International Federation for Information Processing (IFIP – WG 1.7), and the European Educational Forum. Finally, we want to warmly thank the local organizers of the school, especially Alessandro Aldini, Andrea Bandini, Chiara Braghin and Elena Della Godenza.

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Riccardo Focardi
Roberto Gorrieri



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Foundations of Security Analysis and Design II

FOSAD 2001/2002 Tutorial Lectures

Focardi, R.; Gorrieri, R. (Eds.)

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