Record Nr. UNINA9910781756303321 **Titolo** Formal models and techniques for analyzing security protocols [[electronic resource] /] / edited by Veronique Cortier and Steve Kremer Pubbl/distr/stampa Washington, D.C., : IOS Press, 2011 **ISBN** 6613289612 1-283-28961-X 9786613289612 1-60750-714-5 Descrizione fisica 1 online resource (312 p.) Collana Cryptology and information security series, , 1871-6431;; v. 5 Altri autori (Persone) **CortierVeronique** KremerSteve Disciplina 005.8 Soggetti Computer security Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Title page; Preface; Contents; Introduction; Verifying a Bounded Number of Sessions and Its Complexity; Constraint Solving Techniques and Enriching the Model with Equational Theories; Analysing Security Protocols Using CSP; Using Horn Clauses for Analyzing Security Protocols; Applied pi Calculus; Types for Security Protocols; Protocol Composition Logic; Shapes: Surveying Crypto Protocol Runs; Security Analysis Using Rank Functions in CSP; Computational Soundness - The Case of Diffie-Hellman Keys; Author Index Security protocols are the small distributed programs which are Sommario/riassunto omnipresent in our daily lives in areas such as online banking and commerce and mobile phones. Their purpose is to keep our transactions and personal data secure. Because these protocols are generally implemented on potentially insecure networks like the internet, they are notoriously difficult to devise. The field of symbolic analysis of security protocols has seen significant advances during the last few years. There is now a better understanding of decidability and complexity questions and successful automated tools for the pro