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	Nota di contenuto	Invited Papers -- Service Dependencies in Information Systems Security -- Secure Applications without Secure Infrastructures -- Integrating Types and Specifications for Secure Software Development -- Cryptography for Network Security: Failures, Successes and Challenges -- Group-Centric Models for Secure and Agile Information Sharing -- Security Modeling and Covert Channels -- A Predictive Model for Cache-Based Side Channels in Multicore and Multithreaded Microprocessors -- Attack and Defense Modeling with BDMP -- QoS-T: QoS Throttling to Elicit User Cooperation in Computer Systems -- Problems of Modeling in the Analysis of Covert Channels -- Security Policies and Formal Analysis of Security Properties -- Policy-Based Design and Verification for Mission Assurance -- Using Equivalence Relations for Corrective Enforcement of Security Policies -- Model Checking of Location and Mobility Related Security Policy Specifications in Ambient Calculus -- Authentication, Authorization, Access Control and Public Key Cryptography -- Credentials Management for High-Value Transactions -- A New Hard Problem over Non-commutative Finite Groups for Cryptographic Protocols -- Credential Chain

Discovery in RTT Trust Management Language -- Genetic Optimization of Access Control Schemes in Virtual Local Area Networks -- Intrusion and Malware Detection -- Intellectual Intrusion Detection with Sequences Alignment Methods -- Symptoms-Based Detection of Bot Processes -- A Comparison of Feature-Selection Methods for Intrusion Detection -- From NLP (Natural Language Processing) to MLP (Machine Language Processing) -- Security of Multi-agent Systems and Software Protection -- Secure Multi-Agent System for Multi-Hop Environments -- In the Track of the Agent Protection: A Solution Based on Cryptographic Hardware -- Security and Scalability of Remote Entrusting Protection -- Adaptive Security, Security Analysis and Virtualization -- A Novel Genetic Approach to Provide Differentiated Levels of Service Resilience in IP-MPLS/WDM Networks -- Predictive Security Analysis for Event-Driven Processes -- Virtual Environment Security Modeling -- Clarifying Integrity Control at the Trusted Information Environment.

Sommario/riassunto	This volume contains papers presented at the 5th International Conference on Mat- matical Methods, Models and Architectures for Computer Network Security (MMM-ACNS 2010) held in St. Petersburg, Russia, during September 8-10, 2010. The conference was organized by the Institution of the Russian Academy of Sciences St. Petersburg Institute for Informatics and Automation of RAS (SPIIRAS) in co- eration with Binghamton University (SUNY). The previous conferences in the series (MMM-ACNS 2001, MMM-ACNS 2003, MMM-ACNS 2005 and MMM-ACNS 2007) organized by SPIIRAS and Binghamton University (SUNY) demonstrated the great interest of the international scientific community in the theoretical and practical aspects of computer network and information security. MMM-ACNS 2010 provided the next international forum for sharing original - search results among specialists in fundamental and applied problems of computer network security. A total of 54 papers from 19 countries related to significant aspects of the theory and applications of computer network and information security were submitted to MMM-ACNS 2010: 16 papers were selected for regular and 6 for short presentations (30% of acceptance for full papers and 40% for all papers).