

An Excellent Addition to Your Library!

Released: September 2013

Architectures and Protocols for Secure Information Technology Infrastructures

Premier Reference Source

Architectures and Protocols for Secure Information Technology Infrastructures

Part of the Advances in Information Security, Privacy, and Ethics Series

Antonio Ruiz Martínez, Rafael Marín-López, and Fernando Pereniguez-García



Part of the Advances in Information Security, Privacy, and Ethics Book Series

Antonio Ruiz-Martinez (University of Murcia, Spain), Rafael Marín-López (University of Murcia, Spain), and Fernando Pereniguez-García (University of Murcia, Spain)

With the constant stream of emails, social networks, and online bank accounts, technology has become a pervasive part of our everyday lives, making the security of these information systems an essential requirement for both users and service providers.

Architectures and Protocols for Secure Information Technology Infrastructures investigates different protocols and architectures that can be used to design, create, and develop security infrastructures by highlighting recent advances, trends, and contributions to the building blocks for solving security issues. This book is essential for researchers, engineers, and professionals interested in exploring recent advances in ICT security.

Topics Covered:

- Access Control
- RFID
- Anonymous Communications and Services
- Content Distribution
- Mobile/Embedded Systems
- Secure Protocols
- Security Architectures
- Security Modeling and Vulnerability Analysis

ISBN: 9781466645141; © 2014; 427 pp.

Print: US \$195.00 | Perpetual: US \$295.00 | Print + Perpetual: US \$390.00

Pre-pub Discount:*

Print: US \$185.00 | Perpetual: US \$280.00

* Pre-pub price is good through one month after publication date.

Market: This premier publication is essential for all academic and research library reference collections.

It is a crucial tool for academicians, researchers, and practitioners. Ideal for classroom use.

Antonio Ruiz Martínez is an assistant lecturer in the Department of Information and Communications Engineering at the University of Murcia, where he also serves as ViceDean of Quality Affairs and Innovation at the Faculty of Computer Science. He received his B.E., M.E. and Ph.D. degrees in Computer Sciences from the University of Murcia, as well. His main research interests include electronic commerce, electronic payment systems, security, privacy, electronic government and Web services, where he has participated in several research projects in the national and international areas. He has published several papers in international conferences and journals, serves as a technical program committee member in various conferences, and is a reviewer and member of the editorial board for several international journals.



www.igi-global.com

Publishing Academic Excellence
at the Pace of Technology Since 1988

Section 1: State-of-the-Art

Chapter 1
Security and Privacy Issues in Cloud Computing
Jaydip Sen (Tata Consultancy Services Ltd., India)

Chapter 2
Towards a Certified Electronic Mail System
Gerard Draper-Gil (University of the Balearic Islands, Spain)
Josep-Lluís Ferrer-Gomila (University of the Balearic Islands, Spain)
M. Francisca Hinarejos (University of the Balearic Islands, Spain)
Arne Tauber (Graz University of Technology, Austria)

Chapter 3
Mobile IPv6:
Tayo Arulogun (Ladoke Akintola University of Technology, Nigeria)
Ahmad AlSa'adeh (University of Potsdam, Germany)
Christoph Meinel (University of Potsdam, Germany)

Section 2: Cryptographic Algorithms and Security Protocols

Chapter 4
A New Encryption Algorithm based on Chaotic Map for Wireless Sensor Network
Ghada Zaibi (University of Sfax, Tunisia)
Fabrice Peyrard (University of Toulouse, France)
Abdennaceur Kachouri (University of Sfax, Tunisia)
Danièle Fournier-Prunaret (Université de Toulouse, France)
Mounir Samet (University of Toulouse, France)

Chapter 5
A Polling Booth-Based Electronic Voting Scheme
Md. Abdul Based (Norwegian University of Science and Technology, Norway)

Chapter 6
Challenges and Solutions for DNS Security in IPv6
Hosnieh Rafiee (Hasso Plattner Institute, Germany)
Martin von Löwis (Hasso Plattner Institute, Germany)
Christoph Meinel (Hasso Plattner Institute, Germany)

Section 3: Malware and Intrusion Detection Systems

Chapter 7
Host-Based Intrusion Detection Systems:
Vít Bukač (Masaryk University, Czech Republic)
Vashek Matyáš (Masaryk University, Czech Republic)

Chapter 8
Enhancing Intrusion Detection Systems Using Intelligent False Alarm Filter:
Yuxin Meng (City University of Hong Kong, China)
Lam-For Kwok (City University of Hong Kong, China)

Chapter 9
Towards Building Efficient Malware Detection Engines Using Hybrid CPU/GPU-Accelerated Approaches
Ciprian Pungila (West University of Timișoara, Romania)
Viorel Negru (West University of Timișoara, Romania)

Section 4: Secure Platforms and Frameworks

Chapter 10
A Mobile-Based Attribute Aggregation Architecture for User-Centric Identity Management
Alexandre B. Augusto (University of Porto, Portugal)
Manuel E. Correia (University of Porto, Portugal)

Chapter 11
The Austrian Identity Ecosystem:
Klaus Stranacher (Graz University of Technology, Austria)
Arne Tauber (Graz University of Technology, Austria)
Thomas Zefferer (Graz University of Technology, Austria)
Bernd Zwattendorfer (Graz University of Technology, Austria)

Chapter 12
Developing Secure, Unified, Multi-Device, and Multi-Domain Platforms:
Andrea Atzeni (Politecnico di Torino, Italy)
John Lyle (University of Oxford, UK)
Shamal Faily (University of Oxford, UK)

Chapter 13
Securing XML with Role-Based Access Control:
Alberto De la Rosa Algarín (University of Connecticut, USA)
Steven A. Demurjian (University of Connecticut, USA)
Timoteus B. Ziminski (University of Connecticut, USA)
Yaira K. Rivera Sánchez (University of Connecticut, USA)
Robert Kuykendall (Texas State University, USA)

Order Your Copy Today!

Name: _____

Organization: _____

Address: _____

City, State, Zip: _____

Country: _____

Tel: _____

Fax: _____

E-mail: _____

Enclosed is check payable to IGI Global in
US Dollars, drawn on a US-based bank

Credit Card Mastercard Visa Am. Express

3 or 4 Digit Security Code: _____

Name on Card: _____

Account #: _____

Expiration Date: _____