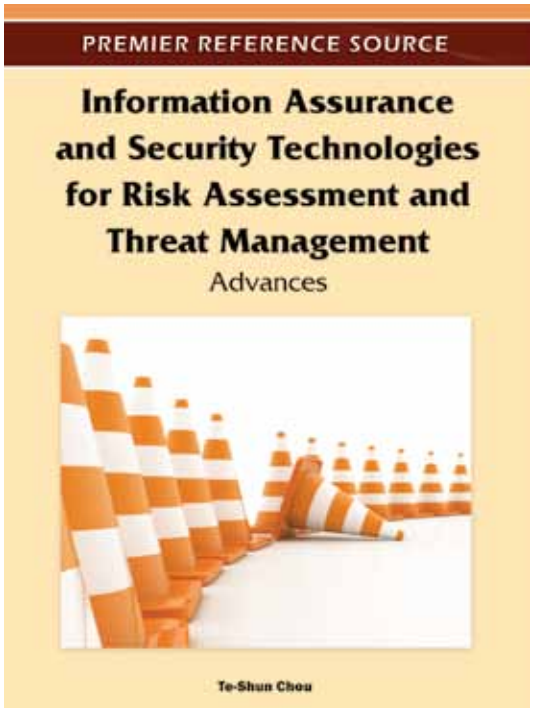
An Excellent Addition to Your Library!

Released: December 2011

Information Assurance and Security Technologies for Risk Assessment and Threat Management: Advances



ISBN: 9781613505076; © 2012; 371 pp.
Print: US $195.00 | Perpetual: US $295.00 | Print + Perpetual: US $390.00

Te-Shun Chou (East Carolina University, USA)

The rapid growth of Internet-based technology has led to the widespread use of computer networks such as Web search and email service. With this increased use, computer systems have inevitably become targets for attack. Once these attacks successfully explore the vulnerabilities of an information system, the confidential information in the system can be accessed and used by those attackers who are not authorized to access to the information.

Information Assurance and Security Technologies for Risk Assessment and Threat Management: Advances details current trends and advances in information assurance and security, as well as explores emerging applications. The book aims to provides the readers with an opportunity to build a strong, fundamental understanding of theory and methods and, thus, to find solutions for many of today's most interesting and challenging problems regarding information assurance and security.

Topics Covered:

- Access Control
- Attacks
- Authentication
- Biometric System
- Cryptography
- Firewall
- Intrusion Detection and Prevention
- Threats
- Virtual Private Network
- Vulnerabilities
- Wireless Security

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Te-Shun Chou received his Bachelor degree in Electronics Engineering from Feng Chia University, Taiwan, R.O.C. in 1989, the Master's degree, and Doctoral degree both in Electrical Engineering from Florida International University, Miami, Florida in 1992 and 2007. In 2008, he joined East Carolina University, Greenville, North Carolina, where he is currently an Assistant Professor with the Department of Technology Systems. His research interests include soft computing, wireless sensor network, and network security, especially intrusion detection and incident response.

IGI GLOBAL
DISSEMINATOR OF KNOWLEDGE
www.igi-global.com

Publishing Academic Excellence
at the Pace of Technology Since 1988

Section 1: Attacks and Vulnerabilities

Chapter 1
Attacks on IT Systems:
Disterer Georg (University of Applied Sciences Hannover, Germany)

Chapter 2
Wireless Security
Kaleem Faisal (Florida International University, USA)
Yen Kang K. (Florida International University, USA)

Section 2: Security Technologies

Chapter 3
Analysis, Development and Deployment of Statistical Anomaly Detection Techniques for Real E-Mail Traffic
Papaleo Gianluca (Istituto di Elettronica e di Ingegneria dell'Informazione e delle Telecomunicazioni, Italy & Consiglio Nazionale delle Ricerche, Italy)
Chiarella Davide (Istituto di Elettronica e di Ingegneria dell'Informazione e delle Telecomunicazioni, Italy & Consiglio Nazionale delle Ricerche, Italy)
Aiello Maurizio (Istituto di Elettronica e di Ingegneria dell'Informazione e delle Telecomunicazioni, Italy & Consiglio Nazionale delle Ricerche, Italy)
Caviglione Luca (Istituto di Studi sui Sistemi Intelligenti per l'Automazione, Italy &Consiglio Nazionale delle Ricerche, Italy)

Chapter 4
Forensics Challenges for Mobile Phone Security
Khelalfa Halim M. (University of Wollongong in Dubai, UAE)

Chapter 5
Applying Continuous Authentication to Protect Electronic Transactions
Albuquerque Silas Leite (University of Brasilia, Brazil)
Gondim Paulo Roberto de Lira (University of Brasilia, Brazil)

Chapter 6
Identity-Based Cryptography:
Torres Jenny (University Pierre and Marie Curie, France)
Nogueira Michele (Federal University of Parana, Brazil)
Pujolle Guy (University Pierre and Marie Curie, France)

Chapter 7
Audio Visual System for Large Scale People Authentication and Recognition over Internet Protocol (IP)
Sue Inn Ch'ng (Nottingham University Malaysia Campus, Malaysia)
Seng Kah Phooi (Sunway University, Malaysia)
Ang Li-Minn (Nottingham University Malaysia Campus, Malaysia)
Ong Fong Tien (Nottingham University Malaysia Campus, Malaysia)

Chapter 8
Firewall
Yang Biwu (East Carolina University, USA)

Section 3: Risk Assessment and Management

Chapter 9
Risk Assessment and Real Time Vulnerability Identification in IT Environments
Peotta de Melo Laerte (University of Brasilia, Brazil)
Gondim Paulo Roberto Lira (University of Brasilia, Brazil)

Chapter 10
Challenges to Managing Privacy Impact Assessment of Personally Identifiable Data
Onwubiko Cyril (Research Series Limited, UK)

Chapter 11
Combining Security and Privacy in Requirements Engineering
Abu-Nimeh Saeed (Damballa Inc., USA)
Mead Nancy R. (Carnegie Mellon University, USA)

Section 4: Strategic Planning of Information Security

Chapter 12
Regulatory and Policy Compliance with Regard to Identity Theft Prevention, Detection, and Response
Francia Guillermo A. (Jacksonville State University, USA)
Hutchinson Frances Shannon (Jacksonville 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: _____